THE UNIVERSITY OF LEEDS



CALENDAR 1971-72

THE UNIVERSITY OF LEEDS

The Calendar 1971-72

Part 1

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Almanac

Session 1971-72

1st TERM	Wednesday, 6 October Friday, 17 December
2nd TERM	Thursday, 13 January Wednesday, 22 March
3rd TERM	Thursday, 20 April Wednesday, 28 June

Session 1972-73

1st TERM	Wednesday, 4 October Friday, 15 December
2nd TERM	Thursday, 11 January Wednesday, 21 March
3rd TERM	Thursday, 26 April Wednesday, 4 July

Session 1973-74

1st TERM	Wednesday, 3 October Friday, 14 December
2nd TERM	Thursday, 10 January Wednesday, 20 March
3rd TERM	Thursday, 18 April Wednesday, 26 June

Session 1974-75

1st TERM	Wednesday, 2 October Friday, 13 December

October 1971

1	F.		
2	S.		
3	*S.*		
4	M.	Masterships Committee, 4.5 p.m.	
5	Tu.		
6	W.	FIRST TERM BEGINS Senate, 2.5 p.m.	
7	Th.	Standing Committee on Courses and Schemes of Study for the Degree of B.Sc., 3.30 p.m.	
8	F.		
9	S.	Board of Biological Studies, 10 a.m.	
10	*S.*		
11	M.		*Inaugural Lecture*
12	Tu.	Board of the Faculties of Arts, Economic and Social Studies and Law, 5.5 p.m.	
13	W.	Developments Committee, 4.5 p.m.	
14	Th.	Finance Committee, 2.15 p.m. M.Sc. Committee, 4.5 p.m.	*Public Lecture*
15	F.		*Medical Inaugural Lecture*
16	S.		
17	*S.*		
18	M.	Committee on Research Degrees, 4.15 p.m.	*Inaugural Lecture*
19	Tu.	Brotherton Collection Committee, 2.15 p.m. Board of the Faculty of Medicine, 5.15 p.m.	
20	W.	Senate Business Committee, 2.5 p.m.	*Concert*
21	Th.	Council, 2.15 p.m. Board of the Faculties of Science and Applied Science, 5.5 p.m.	*Public Lecture*
22	F.	Standing Committee on Undergraduate Courses and Schemes of Study in the Faculties of Economic and Social Studies and Law, 4.5 p.m. Standing Committee on the Library, 4.5 p.m.	
23	S.		
24	*S.*		
25	M.	House and Estates Committee, 2.15 p.m. Standing Committee on Undergraduate Courses and Schemes of Study in the Faculty of Arts, 4.5 p.m.	*Inaugural Lecture*
26	Tu.	Board of the Faculty of Education, 4.5 p.m.	*Public Lecture*
27	W.		
28	Th.	Catering Committee, 4.5 p.m.	*Public Lecture* *Midday Recital*
29	F.	Library Committee's Joint Sub-Committee with Students, 5.15 p.m.	
30	S.		
31	*S.*		

November 1971

1	M.	Masterships Committee, 4.5 p.m.	*Public Lecture*
2	Tu.	University Staff-Student Committee, 4.5 p.m. Medical Library Sub-Committee, 5.5 p.m.	
3	W.	Senate, 2.5 p.m.	
4	Th.	Standing Committee on Courses and Schemes of Study for the Degree of B.Sc., 3.30 p.m.	*Public Lecture* *Midday Recital*
5	F.		
6	S.		
7	*S.*		
8	M.	Board of the Institute of Education Executive Committee, 2.30 p.m.	*Inaugural Lecture*
9	Tu.	Board of the Faculties of Arts, Economic and Social Studies and Law, 5.5 p.m.	*Public Lecture*
10	W.	Developments Committee, 4.5 p.m.	
11	Th.	Finance Committee, 2.15 p.m. M.Sc. Committee, 4.5 p.m.	*Public Lecture* *Midday Recital*
12	F.		
13	S.	Board of Biological Studies, 10 a.m.	
14	*S.*		
15	M.	Joint Committee on Student Accommodation, 2.15 p.m. Committee on Research Degrees, 4.15 p.m.	*Inaugural Lecture*
16	Tu.	Board of the Faculty of Medicine, 5.15 p.m.	*Public Lecture*
17	W.	Senate Business Committee, 2.5 p.m.	*Concert*
18	Th.	Council, 2.15 p.m. Court, 4.15 p.m. Board of the Faculties of Science and Applied Science, 5.5 p.m.	*Midday Recital*
19	F.	Standing Committee on Undergraduate Courses and Schemes of Study in the Faculties of Economic and Social Studies and Law, 4.5 p.m. Standing Committee on the Library, 4.5 p.m.	
20	S.		
21	*S.*		*University Sermon*
22	M.	House and Estates Committee, 2.15 p.m. Standing Committee on Undergraduate Courses and Schemes of Study in the Faculty of Arts, 4.5 p.m.	*Inaugural Lecture*
23	Tu.	Board of the Faculty of Education, 4.5 p.m.	
24	W.		
25	Th.	Catering Committee, 4.5 p.m.	*Midday Recital*
26	F.		
27	S.		
28	*S.*		
29	M.		*Inaugural Lecture*
30	Tu.	Textile Industries and Dyeing Advisory Committee, 2.15 p.m.	*Public Lecture*

December 1971

1	W.	Senate, 2.5 p.m.	
2	Th.	Standing Committee on Courses and Schemes of Study for the Degree of B.Sc., 3.30 p.m.	*Midday Recital*
3	F.		
4	S.		
5	*S.*		
6	M.	Masterships Committee, 4.5 p.m. Board of the Institute of Education, 2.30 p.m.	*Inaugural Lecture*
7	Tu.	University Staff-Student Committee, 4.5 p.m.	*Public Lecture*
8	W.	Developments Committee, 4.5 p.m.	*Concert*
9	Th.	Finance Committee, 2.15 p.m. M.Sc. Committee, 4.5 p.m.	*Public Lecture*
10	F.	D.Sc. Committee, 10.5 a.m.	
11	S.	Board of Biological Studies, 10 a.m.	
12	*S.*		
13	M.		*Concert* *Inaugural Lecture*
14	Tu.	Union Building Advisory Committee, 2.30 p.m. Board of the Faculties of Arts, Economic and Social Studies and Law, 5.5 p.m.	
15	W.	Military and Air Force Education Committee, 2.15 p.m.	
16	Th.	Council, 2.15 p.m. Board of the Faculties of Science and Applied Science, 5.5 p.m.	
17	F.	FIRST TERM ENDS	
18	S.		
19	*S.*		
20	M.	Committee on Research Degrees, 4.15 p.m.	
21	Tu.	Welfare Committee, 2.15 p.m.	
22	W.		
23	Th.	University buildings closed	
24	F.	University buildings closed	
25	S.	Christmas Day	
26	*S.*		
27	M.	University buildings closed	
28	Tu.	University buildings closed	
29	W.		
30	Th.		
31	F.		

January 1972

1 S.

2 *S.*

3 M.

4 Tu.

5 W.

6 Th.

7 F.

8 S.

9 *S.*

10 M.

11 Tu.

12 W.

13 Th. SECOND TERM BEGINS

14 F.

15 S.

16 *S.*

17 M. *Inaugural Lecture*

18 Tu. Board of the Faculty of Medicine, 5.15 p.m.

19 W. Senate Business Committee, 2.5 p.m.

20 Th. *Public Lecture*

21 F. Standing Committee on Undergraduate Courses and Schemes of Study in the Faculties of Economic and Social Studies and Law, 4.5 p.m.

22 S.

23 *S.*

24 M. House and Estates Committee, 2.15 p.m.
Standing Committee on Undergraduate Courses and Schemes of Study in the Faculty of Arts, 4.5 p.m.

25 Tu. Board of the Faculty of Education, 4.5 p.m.

26 W. *Concert*

27 Th. Catering Committee, 4.5 p.m. *Public Lecture*
Midday Recital

28 F. Library Committee's Joint Sub-Committee with Students, 5.15 p.m.

29 S.

30 *S.*

31 M. Masterships Committee, 4.5 p.m.

February 1972

1 Tu. Medical Library Sub-Committee, 5.5 p.m.

2 W. Senate, 2.5 p.m.

3 Th. Standing Committee on Courses and Schemes of Study for the Degree of B.Sc., 3.30 p.m.
Public Lecture
Midday Recital

4 F.

5 S.

6 *S.*

7 M.

8 Tu. Board of the Institute of Education Executive Committee, 2.30 p.m.
Board of the Faculties of Arts, Economic and Social Studies and Law, 5.5 p.m.

9 W. Developments Committee, 4.5 p.m.

10 Th. Finance Committee, 2.15 p.m.
M.Sc. Committee, 4.5 p.m.
Public Lecture
Midday and Evening Recital

11 F. Standing Committee on the Library, 4.5 p.m.

12 S. Board of Biological Studies, 10 a.m.

13 *S.*

14 M. Joint Committee on Student Accommodation, 2.15 p.m. (Provisional)

15 Tu. Board of the Faculty of Medicine, 5.15 p.m.

16 W. Senate Business Committee, 2.5 p.m.

17 Th. Council, 2.15 p.m.
Board of the Faculties of Science and Applied Science, 5.5 p.m.
Public Lecture
Midday Recital

18 F. Standing Committee on Undergraduate Courses and Schemes of Study in the Faculties of Economic and Social Studies and Law, 4.5 p.m.

19 S.

20 *S.*

21 M. Standing Committee on Undergraduate Courses and Schemes of Study in the Faculty of Arts, 4.5 p.m.
Committee on Research Degrees, 4.15 p.m.
House and Estates Committee, 2.15 p.m.

22 Tu. Board of the Faculty of Education, 4.5 p.m.
Public Lecture

23 W.

24 Th. Catering Committee, 4.5 p.m.
Midday Recital

25 F.

26 S.

27 *S.*
University Sermon

28 M.

29 Tu.
Public Lecture

March 1972

1 W. Senate, 2.5 p.m.

2 Th. Standing Committee on Courses and Schemes of Study for the Degree of B.Sc., 3.30 p.m.
Midday Recital
Montague Burton Lecture

3 F.

4 S.

5 *S.*

6 M. Masterships Committee, 4.5 p.m.

7 Tu. Board of the Institute of Education, 2.30 p.m. *Public Lecture*

8 W. Developments Committee, 4.5 p.m.

9 Th. Finance Committee, 2.15 p.m.
M.Sc. Committee, 4.5 p.m.

10 F. D.Sc. Committee, 10.5 a.m.

11 S. Board of Biological Studies, 10 a.m.

12 *S.*

13 M.

14 Tu. Board of the Faculties of Arts, Economic and Social Studies and Law, 5.5 p.m.
Public Lecture

15 W. *Concert*

16 Th. Council, 2.15 p.m.
Board of the Faculties of Science and Applied Science, 5.5 p.m.

17 F.

18 S.

19 *S.*

20 M. Committee on Research Degrees, 4.15 p.m.

21 Tu. Board of the Faculty of Medicine, 5.15 p.m.
Union Building Advisory Committee, 2.30 p.m. *Public Lecture*

22 W. SECOND TERM ENDS

23 Th.

24 F.

25 S.

26 *S.*

27 M. House and Estates Committee, 2.15 p.m.

28 Tu. Welfare Committee, 2.15 p.m.

29 W.

30 Th. University buildings close at 12.30 p.m. (except the Brotherton Library, which closes at 5 p.m.)

31 F. Good Friday. University buildings closed.

April 1972

1 S. University buildings closed

2 *S.* Easter Day

3 M. University buildings closed

4 Tu. University buildings closed

5 W.

6 Th.

7 F.

8 S.

9 *S.*

10 M.

11 Tu.

12 W.

13 Th.

14 F.

15 S.

16 *S.*

17 M.

18 Tu.

19 W. Senate Business Committee, 2.5 p.m.

20 Th. THIRD TERM BEGINS

21 F. Standing Committee on Undergraduate Courses and Schemes of Study in the Faculties of Economic and Social Studies and Law, 4.5 p.m.

22 S.

23 *S.*

24 M. House and Estates Committee, 2.15 p.m.
Standing Committee on Undergraduate Courses and Schemes of Study in the Faculty of Arts, 4.5 p.m.

25 Tu. Board of the Faculty of Education, 4.5 p.m.

26 W.

27 Th. Catering Committee, 4.5 p.m.

28 F. Standing Committee on the Library, 4.5 p.m

29 S.

30 *S.*

May 1972

1 M. Masterships Committee, 4.5 p.m.

2 Tu.

3 W. Senate, 2.5 p.m. *Concert*

4 Th. Standing Committee on Courses and Schemes of Study for the Degree of B.Sc., 3.30 p.m.

5 F. Library Committee's Joint Sub-Committee with Students, 5.15 p.m.

6 S.

7 *S.*

8 M.

9 Tu. Board of the Faculties of Arts, Economic and Social Studies and Law, 5.5 p.m.

10 W. Developments Committee, 4.5 p.m.

11 Th. Finance Committee, 2.15 p.m.
M.Sc. Committee, 4.5 p.m.

12 F.

13 S. Board of Biological Studies, 10 a.m.

14 *S.* *University Sermon*

15 M. Committee on Research Degrees, 4.15 p.m.

16 Tu. Board of the Faculty of Medicine, 5.15 p.m.

17 W.

18 Th. Council, 2.15 p.m.
Court, 4.15 p.m.
Board of the Faculties of Science and Applied Science, 5.5 p.m.

19 F. Standing Committee on Undergraduate Courses and Schemes of Study in the Faculties of Economic and Social Studies and Law, 4.5 p.m.

20 S.

21 *S.*

22 M. House and Estates Committee, 2.15 p.m.

23 Tu. Board of the Faculty of Education, 4.5 p.m.
Medical Library Sub-Committee, 5 p.m.

24 W. Senate Business Committee, 2.5 p.m.

25 Th. Catering Committee, 4.5 p.m.

26 F. Standing Committee on Undergraduate Courses and Schemes of Study in the Faculty of Arts, 4.5 p.m.

27 S.

28 *S.*

29 M. Spring Bank Holiday. University buildings closed, except the Brotherton, the Medical and some other libraries.

30 Tu.

31 W.

June 1972

1 Th. Standing Committee on Courses and Schemes of Study for the degree of B.Sc., 3.30 p.m.

2 F.

3 S.

4 *S.*

5 M. Masterships Committee, 4.5 p.m.

6 Tu. Board of the Institute of Education Executive Committee, 2.30 p.m.
Medical Library Sub-Committee, 5.5 p.m.

7 W. Senate, 2. 5 p.m.

8 Th. M.Sc. Committee, 4.5 p.m.

9 F.

10 S. Board of Biological Studies, 10 a.m.

11 *S.*

12 M. Joint Committee on Student Accommodation (Provisional), 2.15 p.m.

13 Tu. Board of the Faculties of Arts, Economic and Social Studies and Law, 5.5 p.m.

14 W. Developments Committee, 4.5 p.m.

15 Th. Finance Committee, 2.15 p.m.
Board of the Faculties of Science and Applied Science, 5.5 p.m.

16 F. Last day for the return of books to the Brotherton, Agricultural, Clothworkers' and Law libraries for annual inspection, 5 p.m.

17 S.

18 *S.*

19 M. Committee on Research Degrees, 4.15 p.m.

20 Tu. Board of the Faculty of Medicine, 5.15 p.m.

21 W. Senate Business Committee, 2.5 p.m.

22 Th. Council, 2.15 p.m.

23 F. Standing Committee on the Library, 4.5 p.m.

24 S.

25 *S.*

26 M. D.Sc. Committee, 10.5 a.m.
House and Estates Committee, 2.15 p.m.

27 Tu. Board of the Institute of Education, 2.30 p.m.
Union Building Advisory Committee, 2.30 p.m.

28 W. THIRD TERM ENDS

29 Th.

30 F.

July 1972

1 S.

2 *S.*

3 M.

4 Tu. Welfare Committee, 2.15 p.m.

5 W. Senate, 2.5 p.m.

6 Th.

7 F.

8 S.

9 *S.*

10 M.

11 Tu.

12 W.

13 Th. Finance Committee, 2.15 p.m.

14 F.

15 S.

16 *S.*

17 M.

18 Tu.

19 W. Developments Committee, 2.30 p.m.

20 Th. Council, 2.15 p.m.

21 F.

22 S.

23 *S.*

24 M.

25 Tu.

26 W.

27 Th.

28 F.

29 S.

30 *S.*

31 M.

August 1972

1 Tu.

2 W.

3 Th.

4 F.

5 S.

6 *S.*

7 M.

8 Tu.

9 W.

10 Th.

11 F.

12 S.

13 *S.*

14 M.

15 Tu.

16 W.

17 Th.

18 F.

19 S.

20 *S.*

21 M.

22 Tu.

23 W.

24 Th.

25 F.

26 S. University buildings closed

27 *S.*

28 M. Summer Bank Holiday. University buildings closed

29 Tu. University buildings closed

30 W.

31 Th.

September 1972

1 F.
2 S.
3 *S.*
4 M.
5 Tu.
6 W.
7 Th.
8 F.
9 S.
10 *S.*
11 M.
12 Tu.
13 W.
14 Th.
15 F.
16 S.
17 *S.*
18 M.
19 Tu.
20 W.
21 Th.
22 F. D.Sc. Committee, 10.5 a.m.
23 S.
24 *S.*
25 M. House and Estates Committee, 2.15 p.m.
26 Tu.
27 W. Senate Business Committee, 2.5 p.m.
28 Th.
29 F.
30 S.

October 1972

1 *S.*

2 M. Masterships Committee, 4.5 p.m.

3 Tu.

4 W. FIRST TERM BEGINS
Senate, 2.5 p.m.

5 Th. Standing Committee on Courses and Schemes of Study for the Degree of B.Sc., 3.30 p.m.

6 F. Library Committee, 4.5 p.m.

7 S.

8 *S.*

9 M.

10 Tu. Board of the Faculties of Arts, Economic and Social Studies and Law, 5.5 p.m.

11 W. Developments Committee, 4.5 p.m.

12 Th. Finance Committee, 2.15 p.m.
M.Sc. Committee, 4.5 p.m.

13 F.

14 S.

15 *S.*

16 M. Committee on Research Degrees, 4.15 p.m.

17 Tu. Brotherton Collection Committee, 2.15 p.m.
Board of the Faculty of Medicine, 5.15 p.m.

18 W. Senate Business Committee, 2.5 p.m.

19 Th. Council, 2.15 p.m.
Board of the Faculties of Science and Applied Science, 5.5 p.m.

20 F.

21 S.

22 *S.*

23 M. House and Estates Committee, 2.15 p.m.

24 Tu.

25 W.

26 Th. Catering Committee, 4.5 p.m.

27 F. Library Committee's Joint Sub-Committee with Students, 5.15 p.m.

28 S.

29 *S.*

30 M.

31 Tu.

November 1972

1 W. Senate, 2.5 p.m.

2 Th. Standing Committee on Courses and Schemes of Study for the degree of B.Sc., 3.30 p.m.

3 F.

4 S.

5 *S.*

6 M. Masterships Committee, 4.5 p.m.

7 Tu. Medical Library Sub-Committee, 5 p.m.

8 W. Developments Committee, 4.5 p.m.

9 Th. Finance Committee, 2.15 p.m.
M.Sc. Committee, 4.5 p.m.

10 F. Library Committee, 4.5 p.m.

11 S.

12 *S.*

13 M. Joint Committee on Student Accommodation, 2.15 p.m.

14 Tu. Board of the Faculties of Arts, Economic and Social Studies and Law, 5.5 p.m.

15 W.

16 Th. Council, 2.15 p.m.
Court, 4.15 p.m.
Board of the Faculties of Science and Applied Science, 5.5 p.m.

17 F.

18 S.

19 *S.*

20 M. Committee on Research Degrees, 4.15 p.m.

21 Tu. Board of the Faculty of Medicine, 5.15 p.m.

22 W. Senate Business Committee, 2.5 p.m.

23 Th.

24 F.

25 S.

26 *S.*

27 M. House and Estates Committee, 2.15 p.m.

28 Tu.

29 W.

30 Th. Catering Committee, 4.5 p.m.

December 1972

1 F.
2 S.
3 *S.*
4 M. Masterships Committee, 4.5 p.m.
5 Tu.
6 W. Senate, 2.5 p.m.
7 Th. Standing Committee on Courses and Schemes of Study for the Degree of B.Sc., 3.30 p.m.
8 F.
9 S.
10 *S.*
11 M.
12 Tu. Union Building Advisory Committee, 2.30 p.m.
Board of the Faculties of Arts, Economic and Social Studies and Law, 5.5 p.m.
13 W. Developments Committee, 4.5 p.m.
14 Th. Finance Committee, 2.15 p.m.
M.Sc. Committee, 4.5 p.m.
15 F. D.Sc. Committee, 10.5 a.m.
FIRST TERM ENDS
16 S.
17 *S.*
18 M. Committee on Research Degrees, 4.15 p.m.
19 Tu. Welfare Committee, 2.15 p.m.
20 W. Military and Air Force Education Committee, 2.15 p.m.
21 Th. Council, 2.15 p.m.
22 F. University buildings closed
23 S. University buildings closed
24 *S.*
25 M. Christmas Day
26 Tu. University buildings closed
27 W. University buildings closed
28 Th.
29 F.
30 S.
31 *S.*

THE UNIVERSITY OF LEEDS

The Charter

EDWARD VII, by the Grace of God, of the United Kingdom of Great Britain and Ireland and of the British Dominions beyond the seas, King, Defender of the Faith. To all to whom these presents shall come, greeting.

Whereas by Charter of Her Late Majesty Queen Victoria, dated 20th April, 1880, the Victoria University was founded and constituted having its seat in the City of Manchester.

And whereas the Owens College, Manchester, was thereby constituted a college in the University and provision was made that other colleges might from time to time be admitted as colleges in the University in the manner and subject to the conditions therein prescribed.

And whereas the University College, Liverpool, was by resolution of the Court of the University admitted as a college of the University on the 5th November, 1884, and the Yorkshire College, Leeds, was by resolution of the said Court admitted as a college in the University on the 3rd November, 1887, but no other college has been so admitted.

And whereas the said University College, Liverpool, has presented to Us in Our Council a humble petition under the Common Seal of that college praying us to erect a university within the City of Liverpool.

And whereas the Owens College, Manchester, has presented to Us in Our Council a humble petition under the Common Seal of that college praying that a new or supplemental Charter may be granted so as to constitute and continue the Victoria University as a university in Manchester without association with any college except the Owens College.

And whereas the Yorkshire College, Leeds, has presented to Us in Our Council a humble petition under the Common Seal of that college, praying Us to erect a university having its seat in Leeds.

And whereas we have taken the said petitions into Our Royal consideration and are minded to accede thereto.

Now therefore know ye that We, by virtue of Our Royal Prerogative and all other powers in that behalf enabling us of Our Special Grace certain knowledge and mere motion by these presents do for Us, Our Heirs and Successors, grant, will, direct, and ordain as follows:

I.

There shall be from henceforth for ever in Our said City of Leeds a university of the name and style of 'The University of Leeds,' which shall be and continue one body politic and corporate with perpetual succession and a common seal and with full power and capacity, subject to the restrictions herein set forth, without any further licence to all persons and corporations to assure and to the University to take, by gift or otherwise purchase and hold and also to grant demise or otherwise dispose of real and personal property.

II.

The University shall have the powers following:

1. To grant and confer degrees and other academic distinctions to and on persons who shall have pursued an approved course of study in the University and shall have passed the examinations of the University under conditions laid down in its Statutes or Ordinances. Provided that degrees representing proficiency in technical subjects shall not be conferred without proper security for testing the scientific or general knowledge underlying technical attainments.

2. To admit graduates of other universities to degrees of equal or similar rank in the University.

3. To confer degrees of the University on any persons, who hold office in the University as professors, readers, lecturers, or otherwise, or who shall have carried on independent research therein, or on any persons who, at the date of this Our Charter, are Associates of the Yorkshire College.

4. To grant diplomas, licentiateships, certificates, or other distinctions to persons who have pursued a course of study approved by the University under conditions laid down by the University.

5. To confer Honorary degrees, or other distinctions on approved persons. Provided that all degrees and other distinctions shall be conferred and held subject to any provisions which may be made in reference thereto by the Statutes, Ordinances, or Regulations of the University.

6. To provide for instruction in such branches of learning as the University may think fit, and also to make provision for research and for the advancement and dissemination of knowledge.

7. To examine and inspect schools and other educational institutions, to grant diplomas and other certificates, and to provide such lectures and instruction for persons not members of the University as the University may determine.

8. To accept the examinations and periods of study passed by students of the University at other universities or places of learning as equivalent to such examinations and periods of study in the University as the University may determine, and to withdraw such acceptance at any time. Provided that in no case shall the University confer a degree in medicine or surgery upon any person who has not attended in the University during two years at least courses of study recognised for such degree, or for one of the other degrees in the University.

9. To affiliate other colleges or institutions or branches or departments thereof, or to admit the members thereof to any of the privileges of the University, and to accept attendance at courses of study in such colleges or institutions in place of the attendance at courses of study in the University, and upon such terms and conditions and subject to such regulations as may from time to time be determined by the University.

10. To co-operate by means of joint boards or otherwise, with other universities and authorities for the conduct of matriculation examinations, for the examination and inspection of schools and other academic institutions and for such other purposes as the University may from time to time determine.

11. To enter into any agreement with the Yorkshire College for the incorporation of that college in the University, and for taking over its property and liabilities, and, if necessary, to promote a Bill in Parliament to confirm or carry out any such agreement.

12. To enter into any agreement with any other institution for the incorporation of that institution in the University and for taking over its property and liabilities, and for any other purpose not repugnant to this Our Charter.

13. To enter into any agreement with the Victoria University of Manchester or with the University of Liverpool for the division or apportionment of any of the moneys, endowments, or property of the Victoria University, with due regard to the local origin of any particular foundation, to the wishes of the donors, and other special circumstances, and for reference to an arbitrator in case of difference.

14. To institute professorships, assistant professorships, readerships, lectureships, teacherships, and any other offices required by the University and to appoint to such offices. Also to institute and award fellowships, scholarships and exhibitions and prizes.

15. To license halls for the residence of students.

16. To do all such other acts and things whether incidental to the powers aforesaid or not, as may be requisite in order to further the objects of the University as a teaching and examining body, and to cultivate and promote arts, science and learning.

III.

It shall be the duty of the University to co-operate, by means of a joint board or otherwise, with the Victoria University of Manchester and the University of Liverpool for the regulation and conduct of matriculation examinations, including the conditions of exemption therefrom. Statutes of the University shall prescribe and regulate the constitution and duties of the said joint board, the appointment and continuance in office of the members thereof, the filling of vacancies among the members, and all other matters relative to the joint board which it may be thought are proper to be so regulated and prescribed.

IV. Visitor

We, Our Heirs and Successors, Kings and Queens of the Kingdom and Dominions aforesaid, shall be and remain the Visitor and Visitors of the University through the Lord President of our Council for the time being, and in the exercise of the Visitorial Authority We and Our Heirs and Successors shall have the right from time to time and in such manner as We or They shall think fit to direct an inspection of the University, its buildings, laboratories, and general equipment, and also of the examination, teaching, and other work done by the University.

V. Authorities of the University

The authorities of the University shall be the Chancellor, the Pro-Chancellor, the Vice-Chancellor, the Pro-Vice-Chancellor, the Court, the Council, the Senate, the Faculties, the Boards of Faculties, and the Convocation. There shall be a Treasurer and other proper officers of the University.

VI. The Chancellor

The Chancellor shall be the head and chief Officer of the University and president of its Court, Council, and Convocation, and shall, except as otherwise hereby provided, confer degrees. He shall hold office during his life or until his resignation or until his removal for good cause by the Visitor at the instance of the Court.

Our right trusty and entirely beloved Cousin and Councillor, George Frederick Samuel, Marquess of Ripon, Knight of Our Most Noble Order of the Garter, Doctor of Laws, shall be the first Chancellor of the University.

His successors from time to time shall be elected by the Court on the nomination of the Council of the University.

VII. The Pro-Chancellor

In the absence of the Chancellor, or pending a vacancy in the office of Chancellor, or during the Chancellor's inability to act, the Pro-Chancellor shall exercise all the functions of the Chancellor, except the conferring of degrees, and shall, if present, preside at any meetings of the Court and Council.

Our trusty and well-beloved Arthur Greenhow Lupton, chairman of the Council of the Yorkshire College, shall be the first Pro-Chancellor of the University, and shall hold his office for one year. Subsequent appointments to the said office shall be made annually by the Court on the nomination of the Council.

VIII. The Vice-Chancellor

The Vice-Chancellor shall be *ex officio* chairman of the Senate. In the absence of the Chancellor the Vice-Chancellor shall confer degrees, except as otherwise hereby provided.

Our trusty and well-beloved Nathan Bodington, Principal of the Yorkshire College, Doctor of Letters, shall be the first Vice-Chancellor of the University, and shall hold such office for such term or terms and subject to such conditions as may from time to time be determined by the Council.

His successors from time to time shall be appointed by the Court on the nomination of the Council and shall hold such office for such term or terms and subject to such conditions as may from time to time be determined by the Council.

IX. The Pro-Vice-Chancellor

Subject to the Statutes and Ordinances of the University, and in the absence of the Vice-Chancellor, the Pro-Vice-Chancellor may act as Vice-Chancellor. The Pro-Vice-Chancellor shall from time to time be appointed by the Council from among the members of the Senate.

X. The Court

The Court shall be the governing body of the University and shall direct the form, custody, and use of the common seal, and shall have power to regulate and determine all matters concerning the University, and generally shall exercise all the powers and discretions of the University, except as otherwise provided by this Our Charter or by the Statutes.

The Court shall have power by Statute to increase or diminish the number of its members, by increasing or diminishing the number to be nominated or appointed by the persons or bodies possessing the right of nomination or appointment, or by adding representatives of other bodies, or in any other manner.

The Statutes set forth in the schedule hereto annexed shall be the first Statutes of the University under this Our Charter. The Court may amend, add to, or repeal the Statutes for the time being in force [including those set forth in the schedule hereto], but no such amendment, addition, or repeal shall be valid or operative until allowed by Us or by a committee of Our Council.

Ordinances may be made by the Court for the regulation of all matters not required by this Our Charter to be dealt with by Statute.

Provided 1. that it shall not be lawful for the Court, by any Statute or otherwise, to adopt or impose on any person any test whatever of religious belief or profession in order to entitle him to be admitted as a professor, teacher, student, or member of the University, or to hold office therein, or to graduate thereat, or to enjoy or exercise any privilege thereof.

Provided 2. that any Statute or Ordinance made by the Court be not repugnant to the laws of this Realm or to the general objects of this Our Charter.

Provided 3. that Statutes or Ordinances relating to degrees, studies, and examinations shall not be adopted without report from the Senate.

Provided 4. that no change shall be made in any Statute or Ordinance altering the status, powers, or constitution of any of the authorities of the University until such authority shall have had an opportunity of pronouncing an opinion upon the proposed change.

The Court shall have power to confer degrees *in absentia* by a resolution of the Court, but save as aforesaid all degrees shall be conferred by the Chancellor or in his absence by the Vice-Chancellor or Pro-Vice-Chancellor.

The Court shall have power to deprive any graduate of the University who shall have been convicted of a crime or offence, or shall, in the opinion of the Court, have been guilty of scandalous conduct, of any degree or degrees conferred by the University and of all privileges enjoyed by him as such graduate aforesaid.

The acts of the Court shall not be invalidated by any vacancy among its members.

XI.

Every Statute or alteration of a Statute, and every Ordinance or alteration of an Ordinance relating to any of the matters following, that is to say:

1. The titles of degrees,
2. The establishment of new degrees,
3. The period of residence and study in the University or in any affiliated or recognised institution required for degrees,
4. The conditions under which degrees higher than the degree of Bachelor in any Faculty are to be granted,
5. The courses for medical degrees and the subjects of examinations,

shall before such Statute or alteration of a Statute shall be allowed and before such Ordinance or alteration of an Ordinance shall become operative and have effect be communicated to the Victoria University of Manchester and the University of Liverpool, and if within one month after the receipt of such communication notice of objection thereto shall have been given by the said universities or either of them the question so arising shall be considered by a joint committee of the three universities, and in default of agreement any of the said universities may within one month make a representation in regard thereto to Us or to a committee of Our Council, and, in the event last mentioned, such Statute or Ordinance or alteration therein shall not become operative and have effect until allowed by Us or by such committee.

Statutes of the University shall prescribe and regulate the constitution and appointment of the said joint committee and all other matters relating to the said committee which it may be thought are proper to be so prescribed and regulated.

XII. The Council

The Council shall be the executive body of the University and may exercise and do such of the powers, authorities, and things by this Our Charter granted to or authorised to be done by the Court, as are, or shall from time to time be assigned to the Council by Statute or by the Court, except the election of members of the Court to be members of the Council.

The Court shall have power by Statute to increase or diminish the number of the Council, by increasing or diminishing the number to be nominated, elected, or appointed by the persons or bodies possessing the right of nomination or appointment, or by adding representatives of other bodies, or in any other manner.

The Council shall have power to draft Statutes and Ordinances as and when they see fit, and to submit the same to the Court for consideration and enactment.

The acts of the Council shall not be invalidated by reason of any vacancy among its members.

XIII. The Senate

The constitution of the Senate shall be determined by Statute.

The Senate shall, subject to the Statutes and Ordinances of the University, and subject also to review by the Court, have the control and general regulation of the instruction and education within the University and shall have power to discuss and pronounce an opinion on any matter whatsoever relating to the University and such other powers and duties as may be conferred upon it by Statute or Ordinance.

XIV. The Faculties

The University shall include the Faculties of Arts, Science, Medicine and Technology, and such other Faculties [whether formed by the sub-division of an existing Faculty or by the creation of a new Faculty or otherwise] as may from time to time be constituted by Statute.

The constitution and powers of the several Faculties shall be determined by Statute.

Such Boards of Faculties shall be appointed by the Council as the Council may from time to time determine; the members of each Board [the numbers of whom shall be in the discretion of the Council] shall be appointed by the Council from among members of one or more Faculties, or from among the external examiners of the University.

XV. Convocation

The Convocation shall consist of the Chancellor, the Vice-Chancellor, the Pro-Vice-Chancellor, the members of the Senate, the lecturers, and the registered graduates of the University.

The Court shall have power to fix the conditions of registration and to prescribe the annual or other fees, or a composition therefor which shall be necessary for registration.

The Chancellor, if present, shall preside at the meetings of Convocation.

XVI. Powers of Convocation

Convocation shall have the following powers:

To elect its own chairman, who shall, in the absence of the Chancellor, preside at its meetings.

To elect representatives as members of the Court and Council.

To discuss and pronounce an opinion on any matter whatsoever relating to the University, including any matters referred to them by the Court or the Council.

To prescribe the mode of conducting the proceedings of Convocation and of registering the same, and of reporting the same to the Court, Council, or Senate, or any of them.

To enter into communication directly with the Court, Council, or Senate on any matter affecting the University.

XVII. Regulations as to Procedure

The Court, the Council, the Senate, the Faculties, the Boards of Faculties and Convocation respectively may from time to time make regulations for governing their respective proceedings, subject to this Our Charter and to the Statutes and Ordinances of the University.

XVIII. The Treasurer

Our trusty and well-beloved Sir John Barran, Baronet, Treasurer of the Yorkshire College, shall be the first Treasurer of the University, and shall hold his office for one year. Subsequent appointments to the said office shall be made annually by the Court.

XIX. Members of the University

The members of the University shall be the Chancellor, the Pro-Chancellor, the Vice-Chancellor, the Pro-Vice-Chancellor, the Treasurer, the members of the University Court, the professors, emeritus professors, assistant professors, readers, lecturers and demonstrators, and such other teachers of the University as the Court may determine, the members of the Faculties, the holders of such other University offices as the Council may from time to time determine, the wardens or other chief officers of halls of residence licensed by the University, fellows, graduates, and undergraduates of the University.

The undergraduates of the University shall be such persons attending lectures, or receiving instruction in the University as shall have matriculated under the Statutes.

XX. Advisory Committees

The Council may from time to time appoint advisory committees, consisting of members of the University and also, if the Council shall think fit, of persons who are not members of the University, and may delegate to such committees such duties as it thinks fit as regards financial, administrative, or other matters affecting the University or any particular Faculty or department, or the management or supervision of any buildings or property of the University.

XXI. Examiners and Examinations

All examinations held by the University shall be conducted in such manner as the Statutes and Ordinances shall prescribe, provided that at least one external and independent examiner shall be appointed by the Council for each subject or group of subjects forming part of the course of studies required for University degrees, but this proviso shall not apply to examinations for admission or entrance to the University. Provided that in case of a vacancy occurring in or during any examination or of other emergency the Vice-Chancellor shall have power to appoint a substitute for that examination.

XXII. General Provisions

All the degrees and courses of study of the University shall be open to women, subject to such conditions and regulations as the Court may prescribe, and women shall be eligible for any office in the University and for membership of any of its constituent bodies, and in the present Charter words implying the male sex shall be held to include the female, unless the context clearly shows the meaning to be otherwise.

XXIII.

The University may from time to time found and endow fellowships, scholarships, exhibitions, and other prizes for which funds or property may, by bequest, donation, grant, or otherwise be provided, and may make regulations respecting the same and the tenure thereof, but, except as aforesaid, and except by way of prize, reward, special grant, or remuneration for services rendered or to be rendered, in the past, present, or future respectively, the University shall not make any gift, division or bonus in money unto or between any of its members.

XXIV.

In addition to the buildings, lands, and premises of the University for the time being used and occupied for the immediate purposes thereof, the University shall have power to hold lands, tenements, and hereditaments of an annual value not exceeding in the aggregate, at the time or respective times of the acquisition of the same, the sum of £50,000.

XXV.

The University may demand and receive such fees as the Court may from time to time appoint.

XXVI.

The Court may from time to time alter, amend, or add to these presents by a special resolution in that behalf, and such alteration, amendment or addition shall, when allowed by Us, our Heirs, or Successors, or by any committee of Our Most Honourable Privy Council, or otherwise as We or They shall think fit, become effectual so that these presents shall thenceforward continue and operate as though they had been originally granted and made as so altered, amended, or added to. This article shall apply to this Charter as altered, amended, or added to in any manner aforesaid.

XXVII.

A special resolution is a resolution passed at one meeting of the Court and confirmed at a subsequent meeting, held not less than one calendar month, nor more than three calendar months after the former, provided that the resolution be passed at each meeting by a majority of not less than three-fourths of the members of the Court present and voting thereon.

XXVIII.

In this Our Charter 'Statutes' means the Statutes set forth in the schedule hereto and any Statutes altering, amending, adding to, or repealing the same or any of them which may hereafter be made and may be allowed by Us in Council, or by a committee of Our Council.

'Ordinances' means acts of the Court under the powers conferred by this Our Charter to which Our further sanction is not hereby or by Statute required.

'Regulations', except when otherwise required by the context, means Regulations made pursuant to this Our Charter or the Statutes.

XXIX.

Our Royal Will and pleasure is that this Our Charter shall always be construed and adjudged in the most favourable and beneficial sense for the best advantage of the University, and the promotion of the objects of this Our Charter as well in all our Courts as elsewhere notwithstanding any non-recital, mis-recital, uncertainty or imperfection herein.

The Schedule: Statutes

I. The University Court

A. The University Court [hereinafter called the Court] shall consist of the following persons:

1. *Ex officio* members, The Chancellor, the Pro-Chancellor, the Vice-Chancellor and the Treasurer.

2. All present members of the Council of the Yorkshire College; all present and future members of the University Council, during their tenure of office; all present perpetual and life governors of the College; and each present member of the Court who is a member either as a donor of £1,000 to the University or as the nominee of a company, society, or partnership firm which has made a donation of £1,000 to the University.

Six representatives of the Clothworkers' Company of London; one representative of the Skinners' Company of London; one representative of the Drapers' Company of London; one representative of the Trustees of William Akroyd's Foundation; one representative of the West Yorkshire Coal Owners' Association; one representative of the Yorkshire Board of Legal Studies; one representative of the Dyers' Company of London.

3. Representatives of public authorities:

Six from the County Council of the West Riding of Yorkshire
Two from the County Council of the North Riding of Yorkshire
Two from the County Council of the East Riding of Yorkshire
Four from the Council of the County Borough of Leeds
Two from the Council of the County Borough of Bradford
One from the Council of the County Borough of York
One from the Council of the County Borough of Hull
One from the Council of the County Borough of Halifax
One from the Council of the County Borough of Huddersfield
One from the Council of the County Borough of Middlesbrough
One from the Council of the County Borough of Barnsley
One from the Council of the County Borough of Dewsbury
One from the Council of the County Borough of Wakefield
One from the council of each of such other county boroughs to be created in future as may be approved by the Court.

4. Representatives of the University:

Twelve from the Faculties

Representatives [not exceeding five in all] of the Convocation: one representative for every hundred members up to 500.

5. Representatives of other institutions:

Representatives of such affiliated institutions as the Court may determine, and
One representative of the Victoria University of Manchester
One representative of the University of Liverpool
One representative of such other English university as the Court may determine
One representative appointed by the governing body of each college admitted as a member institution of the University of Leeds Institute of Education.

6. Representatives of schools:

Eight representatives of the head masters and mistresses of secondary schools in Yorkshire, such representatives to be appointed by the Court.

7. Other governors:

Three persons appointed by the Crown.

Not less than ten nor more than twenty persons elected by co-optation by the Court.

Except as otherwise by the Charter provided, and subject to the Statutes of the University, the Court may determine all matters relating to the nomination, appointment, and election of members of the Court and Council, and their respective periods or terms of office, and all other matters relating to the constitution of the Court and Council.

B. The Court shall have power to delegate its functions to the Council except as otherwise provided, and to delegate to the Senate the power to award degrees other than *ad eundem* degrees, degrees conferred on persons who hold office in the University, and honorary degrees.

The periods during which members of the Court respectively shall hold office shall be as follows:

The Chancellor, the Pro-Chancellor, the Vice-Chancellor, the Treasurer, and all future members of the University Council shall hold office during the time they occupy the positions named respectively.

All present members of the Council of the Yorkshire College and all present perpetual and life governors of the Yorkshire College and each present member of the Court who is a member either as a donor of £1,000 to the University or as the nominee of a company, society, or partnership firm which has made a donation of £1,000 to the University shall hold office for their respective lives or until resignation.

All other members mentioned in clause A2 above, and all members mentioned in clause A3 above, shall hold office for one year from the date of appointment. Of the members mentioned in clause A4, the ten representatives of the Faculties shall hold office for two years from the respective dates of appointment, and five of such members, to be selected by lot or otherwise as the Court shall determine, shall retire in each year; provided that if a representative of a Faculty ceases to be a member of that Faculty he shall cease to be a member of the Court. The representatives of Convocation shall hold office for two years from the date of appointment. Members mentioned in clause A5 and 6, shall hold office for two years from the respective dates of appointment. Members mentioned in clause A7 shall hold office for five years from the respective dates of appointment, but of the members appointed by co-optation two, to be selected by lot or otherwise as the Court shall determine, shall retire each year.

All retiring members shall be eligible for reappointment or re-election.

Appointees or representatives need not be members of the bodies appointing.

Any member of the Court may resign such membership at any time by letter addressed to the Registrar of the University.

Any casual vacancy occurring by resignation, incapacity, or death among the appointed or representative or co-opted members shall be filled up as soon as convenient by the person or body which appointed or co-opted the member whose place has become vacant. If such member was a member for a term of years the person appointed to supply his place shall be a member of the Court for the remainder of that term.

Fifteen members of the Court shall form a quorum, and, until the above-mentioned representative members have been appointed, the other members shall form the Court.

II. The University Council

A. The University Council [hereinafter called the Council] shall consist of the following persons, namely:

The Chancellor, the Pro-Chancellor, the Vice-Chancellor, the Pro-Vice-Chancellor and the Treasurer
Two representatives of the West Riding County Council
One representative of the North Riding County Council
One representative of the East Riding County Council
Two representatives of the County Borough of Leeds
One representative of the County Borough of Bradford
One representative of the Council of the County Borough of York
One representative of the Council of the County Borough of Hull
One representative of the Council of the County Borough of Halifax
One representative of the Council of the County Borough of Huddersfield
One representative of the Council of the County Borough of Middlesbrough
One representative of the Council of the County Borough of Barnsley
One representative of the Council of the County Borough of Dewsbury
One representative of the Council of the County Borough of Wakefield
One from the council of each of such other Yorkshire county boroughs already existing or to be created in future as may be approved by the Court
Two representatives of the Clothworkers' Company of London
Four members of the Senate to be elected by the Senate
Two representatives to be elected from among their number by the members of the Faculties who are not members of the Senate
Two members to be elected by Convocation
One member to be nominated by the Crown
Twelve members to be elected by the Court. Provided nevertheless, that at first such of the present members of the Council of the Yorkshire College as have been elected thereto by the board of governors of the College shall take the place of the said twelve members; and of such members of the Council of the Yorkshire College four, to be selected by lot or otherwise as the Council may determine, shall retire every three years until the number of such members has been reduced to twelve or less; and on the number of such members being reduced to less than twelve the Court shall have power to appoint any other person or persons to make up such number to twelve. Provided also that as from 1st May, 1920, the number of members to be elected by the Court shall be increased from twelve to sixteen. Provided also that as from 1st May, 1966, the number of members to be elected by the Court shall be increased from sixteen to twenty. Provided also that a person of the age of 71 years or over shall not be eligible for election or re-election by the Court as a member of the Council unless he was a member on 21st April, 1920. So soon as the number of such members shall have been reduced to twelve or less, the members of the Council of the Yorkshire College who at that time remain members of the Council, together with such appointee or appointees of the Court as aforesaid, shall hold office for the period and be subject to the provisions as to retirement hereinafter mentioned, as if all such members and appointees as aforesaid had been elected members of the Council by the Court on the day when such number as aforesaid was reduced to twelve or less.

The members of the teaching staff who are members of the Council, however elected [including the Vice-Chancellor and the Pro-Vice-Chancellor], shall not exceed one fifth of the whole Council.

B. The periods during which the members of the Council respectively shall hold office shall be as follows:

The Chancellor, the Pro-Chancellor, the Vice-Chancellor, the Pro-Vice-Chancellor and the Treasurer shall hold office for the time during which they occupy the positions named respectively.

Representatives of the Senate, of the members of the Faculties who are not members of the Senate, and of Convocation, shall respectively hold office for two years provided that of the first representatives to be appointed by each of these bodies one half thereof shall be appointed for one year only.

All other members of the Council shall hold office for one year from the date of appointment, except as otherwise hereinbefore provided and except members elected by the Court who shall hold office for three years [four, to be selected by lot or otherwise as the Council shall determine, retiring each year], and except the person appointed by the Crown, who shall hold office for five years. Provided that the term of office of members newly elected by the Court in or after the year 1920 [other than those appointed to fill casual vacancies] shall be four years, and that the term of office of retiring members re-elected by the Court after the year 1920 shall also be four years.

Subject to the proviso contained in the foregoing sub-section A as to an age limit for the election or re-election of members by the Court, all retiring members shall be eligible for reappointment or re-election.

Except as hereinbefore provided appointees or representatives need not be members of the bodies appointing.

Any member of the Council may resign such membership at any time by letter addressed to the Registrar of the University.

Any casual vacancy occurring by resignation, incapacity, or death among the appointed or representative members shall be filled up as soon as convenient by the person or body which appointed the member whose place has become vacant. If such member was a member for a term of years the person appointed to supply his place shall be a member of the Council for the remainder of that term.

Seven members of the Council shall form a quorum, and until the above named representative members have been elected, the other members shall form the Council.

III. Powers of the Council

Subject to the provisions made in the Charter and Statutes, the Council shall have the following powers:

To nominate the Pro-Chancellor and the Vice-Chancellor.

To elect professors of the University, and either to elect or to delegate to the Senate the election of any academic officers of the University other than professors.

To elect a Registrar and other officers of the University for such periods and under such conditions as may be determined by the Council.

To institute professorships, assistant professorships, readerships, lectureships, or other teaching offices, after giving the Senate the opportunity of reporting thereon.

To abolish or hold in abeyance, after giving the Senate the opportunity of reporting thereon, any professorship, readership, or other academic office in the University.

To draft Statutes and Ordinances as and when it sees fit and submit the same to the Court. Provided that any Statute or Ordinance relating to courses of study shall not be adopted without giving the Senate the opportunity of reporting thereon.

To make regulations for any purposes for which regulations are or may be authorised to be made.

To govern, manage, and regulate the finances, accounts, investments, property, business, and all affairs whatsoever of the University, and for that purpose to appoint bankers, deputy-treasurers, and any other officers or agents whom it may seem expedient to appoint.

To invest any moneys belonging to the University, including any unapplied income in such stocks, funds, fully paid shares or securities as the Council shall from time to time think fit, whether authorised by the general law for the investment of trust moneys or not, and whether within the United Kingdom of Great Britain and Ireland or not or in the purchase of freehold, copyhold, or leasehold hereditaments in the United Kingdom, including rent charges, or chief rents, with the like power of varying such investments from time to time by sale and reinvestment or otherwise.

To sell, buy, exchange, lease, and accept leases of real and personal property on behalf of the University.

To provide the buildings, premises, furniture, and apparatus and other means needed for carrying on the work of the University.

To enter into, vary, carry out, and cancel contracts on behalf of the University. Any contract entered into on behalf of the University may be made in any manner authorised by law for the making of contracts by or on behalf of companies incorporated under the Companies' Acts, 1862 and 1867.

IV. Powers of the Vice-Chancellor

The Vice-Chancellor shall have the sole power of suspending or dismissing any offending student subject to the right of appeal to the Visitor. He shall exercise general supervision over the educational arrangements of the University, regulate the admission of students, and maintain the discipline of the University, for which he shall be responsible to the Council.

V. The Senate

The Senate of the University shall consist of the Vice-Chancellor, the professors of the University, the librarian, the dean of the Faculty of Medicine and the director of combined studies in the Faculty of Science, together with such additional members not exceeding eight in number as the Court may, after report from the Senate, appoint; provided that

1. additional members shall be members of the Board of Faculties hereinafter mentioned and shall hold office for such term only as the Court may determine

2. the members of all the Faculties shall elect four persons each year to be nominated for appointment as additional members.

The professors of the University within the meaning of the Charter shall include those persons who shall be appointed by the Council as such, and also the professors of the Yorkshire College at the date of the Charter, who shall hold their professorships upon the same conditions as those upon which they held them at the date of the Charter, until such conditions shall be modified or altered by the Council.

The Senate shall have the following powers:

To make and submit to the Council, after report from the Board or Boards of Faculties concerned, all Regulations for giving effect to the Statutes and Ordinances of the University relating to courses of study.

To appoint internal examiners after report from the Board of Boards of Faculties concerned.

To recommend external examiners for appointment by the Council after report from the Board or Boards of Faculties concerned.

To report to the Council, after report from the Board or Boards of Faculties concerned, on all Ordinances relating to courses of study.

To report to the Council on Statutes or Ordinances or proposed changes of Statutes or Ordinances.

To report on any matter referred to or delegated to them by the Court or the Council.

To discuss and declare an opinion on any matter whatsoever relating to the University.

To appoint on delegation of the Council, readers, lecturers, and other academic officers of the University not being professors.

To formulate and modify or revise, subject to the control of the Council, schemes for the organisation of Faculties of arts, science, medicine, technology, and any other Faculties of the University, and to assign to such Faculties their respective subjects; also to report to the Council as to the expediency of the establishment at any time of other Faculties or as to the expediency of the abolition, combination, or sub-division of any Faculties.

To fix, subject to any conditions made by the founders which are accepted by the Court, the times and mode and conditions of competition for fellowships, scholarships, and other prizes, and to award the same.

To do such other acts and things as the Court shall authorise.

No new degree shall be established or other distinction of honour or merit adopted until the Senate has had an opportunity of reporting thereon.

VI. Faculties

Each of the Faculties shall respectively consist of:

1. The professors assigned thereto by the Council.

2. Such lecturers, assistant lecturers, and other teachers of the University as may be appointed to the Faculty by the Council on the recommendation of the Senate, provided that all members of the full-time teaching staff who are appointed readers, senior lecturers, lecturers or assistant lecturers shall be assigned by the Council to membership of the appropriate Faculty at the time of their appointment; and provided also that after 30th September, 1949, no person with the exception of the Vice-Chancellor shall be eligible to be appointed or to continue to be a member of more than one Faculty unless the second Faculty be the Faculty of Education.

3. Such other persons as may be appointed by the Council of the University on the recommendation of the Senate.

The members of all the Faculties shall elect four members each year to be nominated for appointment as additional members of the Senate.

Each Faculty shall have the power to elect to the Court of the University a representative or representatives or a representative jointly with such other Faculty or Faculties as the Council may from time to time decide, subject to the limitations hereinbefore defined.

Each Faculty shall have the power of presenting recommendations and reports to the Senate upon all matters connected with the subjects of study embraced by the Faculty.

As from the first day of August, 1933, the University shall include a Faculty of Law and a Faculty of Economics and Commerce; as from the first day of October, 1955, the Faculty of Economics and Commerce shall become the Faculty of Economic and Social Studies.

The Faculty of Technology shall, until otherwise provided by Statute, include agriculture, dyeing, engineering, leather industries, mining and textile industries. As from the first day of October, 1965, the Faculty of Technology shall become the Faculty of Applied Science.

As from 1st July, 1966, the University shall include a Faculty of Education.

The Vice-Chancellor shall be a member of each of the several Faculties and Boards of Faculties. There shall be a dean of each Faculty elected by that Faculty, or otherwise as the Council shall direct. He shall preside at the meetings of the Faculty and hold office during such period and with such powers as shall be determined by Statute or Ordinance, and shall be eligible for re-election, except that in the Faculty of Medicine, the Dean shall be appointed by the Council on the nomination of the Senate.

VII. Powers of the Boards of Faculties

The Boards of Faculties respectively shall have the powers following:

To regulate, subject to the control of the Senate, the teaching and study of the subjects assigned to the Board in question.

To make recommendations as to the appointment of examiners.

To report to the Senate on Ordinances and Regulations dealing with courses of study for degrees and other distinctions, and on any questions relating to the work of the respective Faculties.

To deal with any matter referred or delegated to them by the Senate.

VIII. Convocation

A register shall be kept containing the names of all persons who are members of Convocation according to the provision made by the Charter.

The register shall be conclusive evidence that any person whose name appears therein at the time of claiming to vote in Convocation is entitled to vote, and that any person whose name does not appear therein is not so entitled.

A meeting of Convocation shall be summoned at least once in every year and at such other times as Convocation may by its by-laws determine.

A meeting of Convocation may be called by the direction of the chairman, and shall also be called on the requisition in writing of at least twenty members.

IX. Auditor

The Court shall annually appoint an auditor, who shall be a member of the Institute of Chartered Accountants of England and Wales, or of the Incorporated Society of Accountants and Auditors, in the active practice of his profession, who shall receive such remuneration as may from time to time be determined by the Court.

Acceptance of office by an auditor shall be deemed to carry with it an undertaking by the auditor to the University that every certificate given by him, or passing of accounts by him, implies that he has satisfied himself by full and careful investigation [made by himself or agents, for whom he undertakes to be responsible] by every reasonable means within his power, and after the exercise of due professional skill, that the statements in the certificate are true and accurate, and that any accounts certified or passed are complete, true, and accurate.

X. Committee for considering objections by the universities at Manchester and Liverpool

The joint committee to be constituted pursuant to clause XI of the Charter for considering objections made by the Victoria University of Manchester and the University of Liverpool to proposed Statutes and Ordinances, shall consist of nine members, three to be appointed by each University.

The joint committee shall be convened by the Registrar of the Victoria University of Manchester.

XI. Committee for considering objections to proposed Statutes and Ordinances of the University of Sheffield

Any committee to be constituted for considering objections made by any of the universities in Manchester, Liverpool and Leeds to proposed Statutes and Ordinances of the University of Sheffield shall consist of twelve members, three to be appointed by each of the said universities.

Such committee shall be convened by the Registrar of the Victoria University of Manchester.

XII. Examination requirements for entry upon degree courses

The examination for matriculation into the University, to be passed by students before entering upon degree courses, shall consist of such examination or examinations as may be determined and conducted by a joint board constituted as hereinafter prescribed.

The joint board shall determine the conditions and subjects of such examination or examinations, together with the exemptions and conditions of exemption therefrom, provided that the senate of each university shall have power to exempt therefrom such persons as it may judge suitably qualified by higher study or research to enter upon a course for a degree.

The board shall, with the consent of the five universities concerned, have power to prescribe particular subjects to be passed as a condition of admission into particular Faculties, provided that at any time after any regulation to that end shall have been prescribed by the board any of the five universities shall have power to cause it to cease to be operative, on the expiration of two years from the date of notice to be given to the board, so far as concerns such university.

The regulations of the board regarding the examinations conducted by it shall not affect the power of each university 1. to require a standard higher than that of the examination for matriculation in any subject or subjects as a condition of admission into any Faculty or school; 2. to require candidates as a condition of admission into its several Faculties and Honours schools and courses leading to a particular degree to have passed in such subjects as the university may determine; or 3. to determine how far the examinations recognised by the joint board as exempting from the examination for matriculation shall be accepted by the university concerned as satisfying the requirements made by the university under sections 1. and 2. of this clause; 4. to admit students who have not passed the examination for matriculation to such classes as it may think fit.

The joint board shall consist of twenty members, four to be elected annually by each of the universities in Manchester, Liverpool, Leeds, Sheffield, and Birmingham, with power to co-opt not more than twelve other persons of experience in the practice or administration of education.

When any change in the regulations regarding the examination for matriculation is carried in the joint board by a majority consisting of less than two-thirds of the members who are present, the question at issue shall, if any four members present and voting so require, be

referred to each of the five universities, who shall each then nominate two additional members of the board for the purpose of dealing with such question. The decision of the board so constituted shall be final.

The board shall send annual reports to each university.

The five universities shall contribute to the expenses of the joint board in such proportions as may be from time to time determined.

XIII. Periods of study before graduation

The period of study necessary to qualify any student for a bachelor's degree, all of which shall be subsequent to the date at which the student passes the examination for matriculation, shall be not less than three years, except that for serving teachers wishing to proceed to the degree of B.Ed. and having professional qualifications and experience as required by Ordinance, the period of study shall be not less than one year of full-time or two years of part-time study.

XIV. Definitions

In these Statutes

'Statutes' means the Statutes of the University.

'Ordinances' means Ordinances made pursuant to the Charter or Statutes.

'Regulations' means Regulations made pursuant to the Charter or Statutes.

In witness whereof We have caused these Our Letters to be made Patent.
Witness Ourself at Westminster the twenty-fifth of April in the Fourth Year of Our Reign.

By Warrant under the King's Sign Manual.

MUIR MACKENZIE.

SEAL

Emergency Statutes

[The effective duration of the emergency Statutes made by the Court on 27th February, 1940 and 29th May, 1941, expired on 3rd October, 1952. The text of these Statutes may be found on pages 48 to 50 of the *Calendar* for 1952-3.]

Ordinances

[Made by the Court in accordance with the provisions of clauses X and XI of the Charter.]

I. Affiliated Colleges and Institutions

1. Colleges and institutions, or parts thereof, may be admitted to affiliation after report by the Senate. The Senate, before recommending the affiliation of any such college or institution, shall satisfy itself:

(a) That the college or institution has attained a satisfactory standard of educational efficiency for the purposes for which affiliation is sought, and is established on a permanent basis.

(b) That the majority of regular students in such college or institution are of the age of sixteen years.

2. In the case of any affiliated college or institution, or of any part of such college or institution recognised for the purposes of this clause, students who have attained the age of seventeen years, and have passed the matriculation examination of the University, or are exempt therefrom, shall be allowed to attend at any such college or institution a part or the whole of a course of study, approved by the Senate of the University:

Either (*a*) as exempting from such courses or parts of courses of study in the University as the Council may approve;

or (*b*) where the affiliated college is a college of education, and after registration of the student as a student in the University, in fulfilment of the requirement of Statute XIII.

So long as the provisions of Ordinance XXIX are in force they shall be administered alongside those enabling affiliation under this Ordinance; in any case of conflict, that interpretation shall be followed which is, in the view of the Senate, the most advantageous to the work of the University and the colleges.

3. The Council shall, after a report from the Senate, determine the privileges to which the students of any such affiliated college or institution shall be admitted.

4. Any college or institution desiring to avail itself of the provisions set out under (*a*) in Article 2 of the foregoing Ordinance shall:

(i) make provision for the representation of the University on the body which determines the annual plan of study in so far as it concerns the courses submitted for the approval of the University;

(ii) submit, for the approval of the Senate of the University, day courses of study whose duration, scope and standard shall be equivalent to the corresponding courses of the University;

and any college or institution desiring to avail itself of the provisions set out under (*b*) in Article 2 of the foregoing Ordinance shall make provision for approved representation both of the University and of those concerned with the academic work of the college on the governing body of the college.

5. The University shall have the right, after due notice to the governing body concerned, to inspect, from time to time, the buildings and equipment for teaching provided in any such college or institution.

6. The Council, after a report from the Senate, shall be entitled at any time to withdraw any privileges which may have been granted to any college or institution under these Ordinances, and to remove the said college or institution from affiliation.

Affiliated Colleges

The College of the Resurrection, Mirfield (affiliated 18th May, 1904). By resolution of the Council the students of this college are exempt from attendance at the University upon the first of the three years of study required for the degree of Bachelor of Arts.

Huddersfield College of Education (Technical) (affiliated 2nd March, 1906). By resolution of the Council, attendance upon certain classes in this college is recognised as exempting from attendance upon classes in the University in the first year of the courses required for the degree of Bachelor of Arts, Bachelor of Science (including engineering) and Bachelor of Medicine and Bachelor of Surgery.

St. John's College, York (affiliated 15th June, 1921). Attendance upon certain courses of study in this college is recognised as exempting from intermediate (or introductory) courses in the University in the first of the years of study for the degrees of Bachelor of Arts and Bachelor of Science.

Colleges of education in the region of the Leeds Institute of Education (affiliated 16th December, 1965), i.e.:

Bingley College of Education
Bretton Hall College of Education
City of Leeds and Carnegie College
Ilkley College of Education
James Graham College, Leeds
Leeds Polytechnic, Department of Educational Studies
Margaret McMillan Memorial College of Education
North Riding College of Education, Scarborough
The College, Ripon
St. John's College, York
Trinity and All Saints' College, Leeds

II. Degrees in Arts

III. Degrees in Education

IV. Degrees in Law

V. Degrees in Science

VI. Degrees in Medicine and Surgery

VII. Degrees in Dental Surgery

VIII. Research Degrees

[Ordinances II to VIII governing the above-mentioned degrees are set out in full in subsequent pages of the Calendar.]

IX. Recognition of courses and examinations of the Victoria University

1. The Senate, or any committee of the Senate appointed for that purpose, is hereby empowered to recognise courses of study pursued and examinations passed by students of the Yorkshire College or of the University of Leeds in the Victoria University or the Victoria University of Manchester prior to 1st January, 1905, as equivalent to corresponding courses and examinations in the University of Leeds.

2. The Senate, or any committee of the Senate appointed for that purpose, is hereby also empowered to make such concessions in exemption from examinations and from attendance on courses of study, as may be required to place a past or present student of the University or of the Yorkshire College, who has been admitted thereto before 1st October, 1904, in as favourable a position in the above respects as if he had become or had continued to be a student of the Victoria University or of the Victoria University of Manchester.

3. A student of the Yorkshire College, who before 31st December, 1904, has passed a final examination of the Victoria University or of the Victoria University of Manchester, for the Bachelor's degree in the Faculty of Arts, Science, Law, or Medicine shall be entitled to be admitted to the Bachelor's degree of the University of Leeds; and if he has been admitted to the Bachelor's degree of the Victoria University or the Victoria University of Manchester he shall be entitled to proceed to the higher degrees of the University of Leeds on the same conditions as if he had graduated in this University.

X. Recognition of courses and examinations of other residential universities*

1. Subject to the provisions of the Charter and Statutes the Senate, or any committee of the Senate appointed for that purpose, is hereby empowered to allow members of any university, in which residence is required as a condition of graduation, or members of any university who have attended courses of study at some college or other place of learning which is affiliated or associated with such university, after matriculation at the University of Leeds, and presentation of certificates of conduct satisfactory to the Senate or committee, to count such periods of residence passed by them at such other university as equivalent to such periods of residence at the University of Leeds as the Senate or committee may determine, provided that no degree of this University shall be conferred on any such person unless he shall have pursued an approved course of study in this University extending over at least two years, and shall have passed the final examinations for such degree.

2. Undergraduates of other universities who have been admitted, under this Ordinance, as members of this University may be allowed to count examinations passed by them at such other universities as equivalent to such examinations or portions of examinations other than the final examination of this University as the Senate, or any committee of the Senate appointed for that purpose, may from time to time determine.

3. Undergraduates of the University of Leeds who are pursuing an approved course of instruction in any of the Honours schools of the University may be allowed to count such periods of residence passed by them at other universities during their undergraduate course as equivalent to such periods of residence at the University of Leeds as the Senate, or any committee appointed for that purpose, may from time to time determine, provided that no degree of this University shall be conferred upon any such undergraduate unless he shall have pursued an approved course of study in this University extending over at least two years, and shall have passed the Honours examination for such degree.

XI. Conferment of degrees upon former students of the Yorkshire College

1. As to the conferment of *ad eundem* degrees on students who have attended full courses of study at the Yorkshire College and have graduated at various universities, but who have not been admitted to the college Associateship:

Graduates of the Victoria University shall be offered the same degrees in the University of Leeds as those which they have received from the Victoria University.

* [The provisions of article 1 of this Ordinance are applied only to candidates for the degree of Bachelor.]

Graduates in medicine of other universities shall be admissible on application to the M.B. degree of the University of Leeds.

Applications from non-medical graduates of other universities who have been students of the Yorkshire College shall be considered on their merits.

In every case of admission under the above conditions a fee of 10s. 6d. shall be charged.

2. As to Associates of the Yorkshire College:

Graduates of the Victoria University shall be offered the same degrees in the University of Leeds as those which they have received from the Victoria University.

Graduates of other universities shall be offered the degree of Bachelor in this University in the Faculties in which they graduated elsewhere.

All Associates of the Yorkshire College admitted to degrees of the University of Leeds under these conditions shall be admitted without fee.

3. All persons admitted to degrees of the University of Leeds under the foregoing conditions shall be admissible as life members of the Convocation of the University.

4. No graduate admitted under the above conditions to a lower degree shall be precluded from proceeding in the University of Leeds to a higher degree in his particular Faculty.

XII. Standing of certain graduates in proceeding to higher degrees

1. Graduates of other universities who have been admitted to degrees of equal or similar rank in this University shall be allowed, in proceeding to higher degrees, to count their standing as graduates from the date of their graduation in such other universities.

2. Associates by examination of the Yorkshire College who have been admitted to degrees in this University shall be allowed, in proceeding to higher degrees, to count their standing as graduates from the date of admission to the Associateship.

XIII. Award of degrees by Senate

The Senate is hereby empowered to award degrees other than 1. *ad eundem* degrees, 2. degrees conferred on officers of the University, and 3. Honorary degrees, in accordance with the provision in that behalf contained in Statute I B.

XIV. Award of degrees by Council

1. The Council is hereby authorised to grant to any professor of the University, or to any lecturer who is the head of any department in the University, a degree not higher than that of Master in the Faculty in which he has graduated, or, in the case of a professor or lecturer holding no degree, such degree, not higher than that of Master, as the Council may determine.

2. The Council is authorised, if it thinks fit, to grant to any other officer of the University such degree, not higher than that of Master, as it may determine, but no such degree shall be conferred until a report has been received from the Senate.

3. No medical degree shall be conferred under either of the above provisions 1. and 2. upon a person who does not already possess a registrable medical qualification; and no person, in virtue of a degree conferred under either of these provisions, shall be allowed to proceed to a degree higher than that to which he has been admitted.

XV. Joint Matriculation Board and Joint Committees

The Council is hereby empowered to elect annually, or as may be required:

1. Four members of the Joint Matriculation Board of the Universities of Manchester, Liverpool, Leeds, Sheffield and Birmingham.

2. Three members of a joint committee of the Universities of Manchester, Liverpool and Leeds, to consider objections which may be raised by one or more of those universities, to Statutes or Ordinances proposed by any of them, or by the University of Sheffield.

XVI. Diplomas

Diplomas shall be granted by the University, in such subjects as the Council may from time to time determine, to students who pursue the courses of study and pass the examinations prescribed.

The Council is empowered to make from time to time Regulations under which such diplomas shall be awarded.

The award of diplomas under the provisions of this Ordinance is delegated to the Senate.

XVII. Regulations for procedure

The Council, Senate, Faculties, Boards of Faculties, and Convocation are hereby empowered to enact Regulations for the conduct of their business and that of their committees, subject to the provisions of the Charter and Statutes.

XVIII. Fees

The Council is hereby empowered, after giving the Senate an opportunity of reporting thereon, to appoint such registration, examination, class, laboratory, and other fees to be paid by students and others as the Council may from time to time determine, and to increase, reduce or abolish the same.

XIX. Regulations for examinations

Subject to the provisions of the Charter, Statutes, and Ordinances of the University, the Counci is hereby empowered to adopt regulations, or to delegate to the Senate the making of regulations, as to the subjects, times, modes, and standards of the examinations.

XX. Admission to examinations

Before admission to any examination candidates must pay the examination fee. The admission of all students to the examinations of the University shall be subject to the approval of the Vice-Chancellor.

XXI. External examiners

The Council is hereby empowered to appoint, on the recommendation of the Senate, such external examiners on such conditions as to tenure of office, remuneration, and otherwise as it may from time to time determine.

XXII. Prizes

The Council is hereby empowered, upon report from the Senate, to institute such class and other prizes as it may from time to time determine, and to vary their value and to abolish the same.

XXIII. Examination of schools, and extension lectures

The Senate is hereby empowered to examine and inspect schools and other educational institutions and to provide lectures and instruction for persons not members of the University under such Regulations as the Council may from time to time adopt. The Senate is empowered to award certificates in connection with lectures and instruction for persons not members of the University.

XXIV. Tenure of office of Deans of Faculties

The deans of all faculties, excluding the Dean of the Faculty of Medicine, shall be elected for periods not exceeding three years at a time.

XXV. Tenure of office of additional members of Senate

Such additional members of the Senate of the University as may be appointed by the Court under Statute V shall be appointed for one year only, but shall be re-eligible at the end of each year.

XXVI. Register of Convocation

1. The Chancellor, the Vice-Chancellor, the Pro-Vice-Chancellor, the members of the Senate and the lecturers shall be registered as members of Convocation without payment of any fee, and their names shall be continued upon the register so long as they retain their qualifying offices.

2. Graduates who have been admitted to degrees of this University by reason of their having pursued courses of study in the Yorkshire College, and having been admitted to degrees of other universities or to the Associateship of the Yorkshire College, shall be entitled to be registered immediately as life members of Convocation without payment of any further fee.

3. All persons admitted to degrees of this University prior to 1st June, 1926, shall be entitled to be registered as members of Convocation upon payment of a fee of 10s. 6d.

4. Every person admitted to a degree [other than an honorary degree] of this University on or after 1st June, 1926, shall, unless already a member of Convocation, be required to pay, prior to graduation, a fee of £1, which fee shall entitle the graduate to be registered as a member of Convocation.

5. All honorary graduates shall be entitled to be registered as members of Convocation without payment of any fee.

XXVII. Communications from Council to Convocation

Convocation shall receive from the Council the draft of any Ordinance proposed which, in the opinion of the Council, would affect the status, position, rights, or privileges of Convocation or the members thereof, and further, Convocation, if it so desires, may record its opinion on any draft Ordinance so submitted within one month from the date at which it has been received, and such opinion when recorded shall be taken into consideration by the Council.

XXVIII. *Aegrotat* degree

If a candidate be prevented by illness or other sufficient cause from attending the whole or part of an examination for a degree, or from presenting any dissertation or thesis which may be required in connection with such examination, the Senate, upon report from the internal and external examiners concerned and upon such further evidence as they think fit, may if satisfied, thereupon treat him as a successful candidate in such examination, or impose such conditions as they think fit the fulfilment of which shall be precedent to such treatment; provided always that a candidate in an examination for a degree with honours shall not be placed in a class, and provided also that nothing in this Ordinance shall apply to the degrees in medicine and dental surgery.

The Senate on the recommendation of the board concerned may allow a student whose course of study has been interrupted by illness or other sufficient cause to defer presenting himself for the examination in any honours school for such period as is thought fit.

XXIX. Ordinance Constituting the University of Leeds Institute of Education

1. Definitions:

'The Institute' means the Institute of Education hereby established.

'The Area' means the geographical area in which the University, through the Institute, is recognised as responsible for the training of teachers.

'The Board' means the board of the Institute formed in accordance with Articles 6 and 7 hereof.

'The Professional Committee' means the professional committee formed in accordance with Articles 6 and 8 hereof.

'Member College' means a college of education or a former college of education in the area that has been incorporated into a Polytechnic or other training establishment included in article 3 (a) below.

The 'Central Institute' means those members of the academic staff of the Institute of Education employed by the University.

'The School of Education' means all academic members of staff in the Department of Education of the University of Leeds and the Central Institute of Education.

2. Title and objects: There shall be an Institute of Education to be known as the University of Leeds Institute of Education the purposes of which shall include the following:

(a) To further and to co-ordinate in the Area the provision for the training of teachers and of others preparing to engage in educational work;

(b) To promote and to provide facilities for the study of and research in education;

(c) To act as a centre of discussion and activity for teachers and others concerned with education in the Area;

(d) To perform such other functions as may be approved by the Senate and Council.

3. Membership: Membership of the Institute shall be both institutional and individual:

(a) The member institutions shall include:

The Department of Education in the University of Leeds
Bingley College of Education
Bretton Hall College of Education
City of Leeds and Carnegie College
Huddersfield College of Education (Technical)
Huddersfield Polytechnic, Faculty of Education
Ilkley College of Education
James Graham College
Leeds Polytechnic, Department of Art Education
Leeds Polytechnic, Department of Educational Studies
Margaret McMillan Memorial College of Education
North Riding College of Education, Scarborough
The College, Ripon
St. John's College, York
Trinity and All Saints' College, Leeds

and such other institutions as may be admitted by the Council on the recommendation of the Board.

Any member institution may be permitted to withdraw from membership upon giving at least two years notice to the Council and making provision satisfactory to the Board for the completion of the training of registered students of the Institute.

(b) The individual members shall be:

(i) The Director, the deputy Director, the Secretary and the Assistant Secretary of the Institute

(ii) The head of the University Department of Education and members of the academic staff of the School of Education

(iii) The principals and members of the teaching staffs of the member colleges

(iv) The members of the Board and of the Professional Committee, together with

(v) Such other individuals as may from time to time be admitted by the Council on the recommendation of the Board.

Individual members shall retain their membership of the Institute only for such time as they continue to be Institute officers or to hold an appointment in one of the member institutions or to be members of the Board or of the Professional Committee or for the term for which they are admitted by the Council as individual members. An individual member of the Institute may resign such membership at any time by letter addressed to the clerk of the Board.

4. Functions: Subject to Article 7 below, the functions of the Institute shall include the following:

(a) To arrange for the co-ordination of training in education over the Area as a whole.

(b) To maintain a register of all students in member institutions who are engaged in the study of education.

(c) To administer schemes drawn up under regulations to be made by the Board for the award of an initial training qualification of the Institute to mark the successful completion of a period of initial training in a Member College.

(d) To recommend to the Department of Education and Science for the award of qualified teacher status:

(i) students from a member institution to whom an initial training qualification has been awarded

(ii) students who, while not having qualified for the award of an initial training qualification have satisfied the Professional Committee that they are fitted to be allowed to teach.

(e) To administer schemes drawn up under regulations to be made by the Council for the award of a Diploma or Certificate of the Institute to mark the successful conclusion of a further period of professional training under the direction of the Institute.

(f) To take over from the 'Board for the Final Examination of Students in Training Colleges in Yorkshire' in conjunction with the University of Sheffield and Hull University College, the functions of the said Board, together with the said Board's assets, liabilities and commitments.

(g) To submit to the Council proposals for a building to be equipped with libraries, conference rooms and other amenities suitable to enable such a building to be a centre of professional interest for persons engaged in educational work within the Area.

(h) To promote consultation in the making of appointments to the staffs of all member institutions.

(i) To promote arrangements for lectures, demonstrations, etc., in each of the member institutions from among the staffs of the member institutions or otherwise and for that purpose to arrange if necessary with the member institutions for the secondment of members of their staffs.

(j) To promote arrangements, where desirable, for the interchange of teachers between member institutions.

(k) To promote arrangements, where desirable, for the interchange of individual students or groups of students between the member institutions.

(l) To provide or co-operate in the provision of special courses for students in training dealing with particular aspects of educational work.

(m) To provide or co-operate in the provision of refresher courses, summer schools and the like for teachers, youth leaders and others.

(n) To encourage co-ordinated investigation into educational problems and to issue publications from time to time on educational matters.

(o) To perform such other functions as may be approved by the Senate and Council.

5. Officers: The officers shall be:

(a) The Director of the Institute who shall be responsible to the Council for the work of the Institute. He shall be a professor in the University appointed by the Council after a report from the Board upon such terms and conditions as the Council may determine.

(b) The deputy Director of the Institute who shall be authorised to act for the Director in the Director's absence, and shall generally assist the Director in carrying out his duties. He shall be appointed by the Council after a report from the Board upon such terms and conditions as the Council may determine.

(c) The Secretary of the Institute who shall be its executive officer and shall carry out such duties as may from time to time be assigned to him by the Director. He shall be appointed by the Council after a report from the Board upon such terms and conditions as the Council may determine.

(d) The clerk to the Board who shall be the Registrar of the University.

(e) The financial officer of the Board who shall be the Bursar of the University.

6. Government: The government of the Institute shall, subject to Article 9 hereof, be effected by means of the Board and of the Professional Committee.

7. The Board of the Institute:

(a) The Board shall consist of the following members:

(i) The Pro-Chancellor *ex officio*

(ii) The Vice-Chancellor of the University who shall be *ex officio* chairman

(iii) The chairman of the finance committee of the Council *ex officio*

(iv) The Director and the deputy Director of the Institute each *ex officio*

(v) The principal and designated deputy principal of each member college and the head of the University Department of Education, *ex officio*, together with one other member of the staff of the University Department of Education nominated by the head of that department

(vi) One representative of each of the undermentioned local education authorities:

Bradford
Dewsbury
Halifax
Huddersfield
Leeds
Wakefield
York
Yorkshire (West Riding)
Yorkshire (North Riding)

(vii) One representative of each member college, to be nominated by the governing body of the college

(viii) Fourteen members of the academic staff of the University appointed by the Senate

(ix) Four members drawn from the teaching staffs of member colleges, nominated by the Board under such arrangements as the Council may from time to time prescribe

(x) Nine teachers in schools, nominated by the Board under such arrangements as the Council may from time to time prescribe

(xi) Four students, each of whom shall be a member of a member institution or a registered student of the Institute and nominated by the Board under such arrangements as the Council may from time to time prescribe

(xii) Two other persons as the Council may from time to time appoint on the nomination of the Board.

(b) Apart from members of the academic and teaching staff in member institutions and student members, who shall be appointed for two years, and *ex officio* members, members shall hold office for three years and shall be eligible for reappointment.

(c) Student members will not receive papers or attend discussions concerning individual students or members of staff.

(d) Two assessors appointed by the Secretary of State for Education and Science shall be invited to attend each meeting of the Board.

(e) The Board shall meet at least once a term.

(f) The Board shall have the following powers:

(i) To recommend to the Senate and the Council the appointment or removal of the Director, the deputy Director and the Secretary of the Institute.

(ii) To nominate, on the recommendation of the Professional Committee, internal examiners for appointment by the Senate and external examiners for appointment by the Council.

(iii) To make regulations for any purpose for which regulations are or may be authorised to be made hereunder and to amend, vary or cancel such regulations from time to time.

(iv) To control and direct the work of the Institute in accordance with the objects and functions set out in Articles 2 and 4 hereof.

(v) To consider and report to the Council upon:

(a) all projects of the Institute involving finance, accounts, investments or the use or disposal of property;

(b) the buildings, premises, furniture and apparatus and other matters needed for carrying on the work of the Institute.

(vi) To give directions to the Professional Committee and, in particular, to approve, amend, refer back or reject any act or decision of the Professional Committee.

(vii) To appoint such committees or sub-committees as may be deemed necessary.

(viii) To prescribe the mode of conducting the proceedings of the Board and the Professional Committee.

(g) The minutes of all meetings of the Board shall be submitted to the Senate and to the Council and the Board shall also furnish such other information relating to its proceedings and actions as may from time to time be required by the Senate or the Council.

8. The Professional Committee:

(a) The Professional Committee shall consist of the following members:

(i) The Vice-Chancellor *ex officio*

(ii) The Director of the Institute who shall be chairman *ex officio*

(iii) The deputy Director of the Institute *ex officio*

(iv) The principal and a designated deputy principal of each member college and the head of the University Department of Education *ex officio*, together with one other member of the academic staff of the University Department of Education nominated by the head of that Department
(v) Six members of the academic staff of the University appointed by the Senate, including two members to be nominated by the Faculty of Education
(vi) One member of the teaching staff (not the principal or head) of each member college, to be appointed by the Board on the recommendation of the staff of that Institution
(vii) One member of the academic staff of the Central Institute (not the Director or the deputy Director) to be appointed by the Board on the recommendation of the staff of the Central Institute
(viii) Four members nominated by the Yorkshire Association of Education Officers
(ix) Nine teachers in schools, nominated under such arrangements as the Board may from time to time prescribe
(x) The four student members of the Board of the Institute
(xi) Two other persons as may be appointed by the Board from time to time

(b) Apart from student members who shall be appointed for two years, and *ex officio* members, members shall hold office for three years and shall be eligible for re-appointment.

(c) Student members will not receive papers or attend discussions concerning individual students or members of staff.

(d) Two assessors appointed by the Secretary of State for Education and Science shall be invited to attend each meeting of the committee.

(e) The Professional Committee shall have the following powers:
(i) To direct the co-ordinating work of the Institute so far as this relates to instruction and education within the Area.
(ii) To administer schemes for the award of certificates in Education and for the recommendation of students to the Department of Education and Science for the award of qualified teacher status as provided in Article 4(c) above.
(iii) To administer schemes for the award of diplomas as provided in Article 4(e) above.
(iv) To report on any matter referred or delegated to it by the Board.
(v) To appoint such boards of studies, committees and panels as may be deemed necessary.

The minutes of all meetings of the Professional Committee shall be submitted to the Board and the Professional Committee shall also furnish such other information relating to its proceedings and action as may from time to time be required by the Board.

9. Control: The Board of the Institute shall be responsible to the Senate and the Council of the University for the administration and finance of the Institute and the Senate and the Council shall have the power to approve, amend, refer back or reject any act of the Board and to give direction to the Board, provided always that due regard is paid to the internal autonomy of the member institutions.

The acts of the Board or of the Professional Committee shall not be invalidated by reason of any vacancy among the respective members.

10. Dissolution: The University, after giving not less than two years' notice of its intention, may dissolve the Institute of Education and in that event the premises, equipment and all assets of the central organisation of the Institute shall remain the property of the University who shall discharge the liabilities in connection therewith. The premises, equipment and all assets of the member colleges shall remain the property of the respective colleges, who shall respectively discharge the liabilities in connection therewith.

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THE DEAN OF THE FACULTY OF MEDICINE
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MR. H. N. MACDONALD
DR. R. R. MACDONALD
The President of the Medical Students' Representative Council.
One member elected by the students in residence at Croft Hall.

Discipline (Staff)

An independent Chairman, a Barrister who shall be appointed by the Chairman of the Bar Council
Other members, who shall all, with one exception, be members of the University who are not members of Council, namely
Two members of the Faculties elected annually by the Faculties, one of whom shall be a professor; Professor Holliman and Mr. M. Kirk;
One lay member of the Council nominated by the Council annually, who shall not take part in the debate or vote when the report and action arising thereon are under consideration by the Council; Mr. E. J. Loy Wooler;
One member of the staff nominated by the Joint Consultative Committee at the last meeting of each session for the coming session;
The Chairman of the Faculty Board, or, if he should be a member of Council, the Deputy Chairman or, if he should be a member of Council, the Dean of the Faculty of the member concerned.

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[The Livesey Professorship]

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PROFESSOR WOOLHOUSE
The President of the University Union or his nominee.

House (School of Medicine)

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THE CHAIRMAN OF THE STANDING COMMITTEE ON UNIVERSITY SAFETY
THE CHAIRMAN OF THE SUB-COMMITTEE ON HALLS OF RESIDENCE
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THE CHAIRMAN OF THE SUB-COMMITTEE ON FIRE PROTECTION
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One member nominated by the Old Students' Association
The honorary treasurer of the University Union
Six members nominated by the University Union Council

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PROFESSOR HARRIS
PROFESSOR HOGAN
PROFESSOR HOLLIMAN
MR. M. KIRK
DR. W. J. O'CONNOR
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THE CHAIRMAN OF THE HOUSE AND ESTATES COMMITTEE
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PROFESSOR COLE
DR. P. H. J. H. GOSDEN
PROFESSOR HOLLIMAN
PROFESSOR WOOD

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MR. B. C. GILLINSON
PROFESSOR NUTTING
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PROFESSOR TINSLEY
PROFESSOR WHEWELL

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2 members nominated by each of the Boards of Faculties.

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MRS. W. A. SLEDGE
MR. R. T. H. STEVENS
DR. R. J. STILL
DR. W. K. J. WALLS
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THE CHAIRMAN OF THE FINANCE COMMITTEE
THE PRO-VICE-CHANCELLOR
MR. B. C. GILLINSON
PROFESSOR HOLLAND
PROFESSOR WOOLHOUSE
PROFESSOR A. G. WARD
PROFESSOR WOOD
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PROFESSOR HOLLIMAN
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PROFESSOR SPIERS
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THE VICE-CHANCELLOR
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ONE WARDEN OF A HALL OF RESIDENCE
ONE OF THE ADVISERS TO RESIDENTS IN UNIVERSITY FLATS
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(2) two men and one woman (nominated by the President and the Lady Vice-President of the University Union);
(3) one student member of the University Flats committee;
(4) one student member of the Sub-committee on Halls of Residence (not to be the President, Vice-President, Secretary or Accommodation Officer of the University Union) to be nominated by the President of the University Union.

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PROFESSOR HOGAN
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ARTHUR LOTEN ROBERTS	1947-71

Metallurgy

NORMAN JAMES PETCH	1956-59

Mining

GEORGE ROBERT THOMPSON	1904-11
ERNEST LONSDALE HUMMEL	1913-19
GRANVILLE POOLE	1919-23
JOHN ANTHONY SYDNEY RITSON	1923-36
FRANK STUART ATKINSON	1936-40
JOHN THOMAS WHETTON	1945-60
HUBERT JOHN KING	1960-63

Applied Mineral Sciences

HUBERT JOHN KING	1963-67

Textile Industries

ROBERTS BEAUMONT	1904-14
ALDRED FARRER BARKER	1914-33
ALBERT THEODORE KING	1933-39
ALFRED HESKEL NISSAN [wool textile engineering]	1953-57
JOHN BAMBER SPEAKMAN	1939-63

Agriculture

ROBERT SUTHERLAND SETON	1904-32
CHARLES CROWTHER [agricultural chemistry)	1913-19
NORMAN MEDERSON COMBER [agricultural chemistry]	1932-53
JOHN McGREGOR	1934-61
THOMAS LLOYD BYWATER	1953-69
JOHN HENRY WESTERN [agricultural botany]	1951-71

Anatomy

THOMAS WARDROP GRIFFITH	1904-10
JOHN KAY JAMIESON	1910-36
ARCHIBALD DURWARD	1936-64

Physiology

DE BURGH BIRCH	1904-17
HENRY STANLEY RAPER	1917-23
WILLIAM FREDERICK SHANKS	1923-26
BRYAN AUSTIN McSWINEY	1926-36
ALBERT HEMINGWAY	1936-67

Biochemistry

FRANK CHARLES HAPPOLD	1946-67

Pathology and Bacteriology

ALBERT SIDNEY LEYTON	1904-17
MATTHEW JOHN STEWART (pathology)	1918-50
JAMES WALTER McLEOD (bacteriology)	1922-52
RUPERT ALLAN WILLIS (pathology)	1950-55

Chemical Pathology

FRANK SCOTT FOWWEATHER	1946-56

Clinical Investigation

PAUL FOURMAN	1963-68

Experimental Pathology and Cancer Research

RICHARD DOUGLAS PASSEY	1926-53
HARRY NORMAN GREEN	1954-67

Medicine

ALFRED GEORGE BARRS	1904-10
THOMAS WARDROP GRIFFITH	1910-25
WALTER HENRY MAXWELL TELLING	1925-32
GEORGE WILLIAM WATSON	1932-37
WILLIAM MacADAM	1937-46
FRANCIS FINDLAY HELLIER (dermatology)	1968-69
SIR RONALD ERNEST TUNBRIDGE	1946-71

Clinical Medicine

ALFRED GEORGE BARRS	1910-20
GEORGE WILLIAM WATSON	1925-32
RAWDON AUGUSTUS VEALE	1933-34
WILLIAM MacADAM	1934-37
JOSEPH LE FLEMING COY BURROW	1937-48
STANLEY JACK HARTFALL	1948-64

Diseases of Children

CHARLES WILFRED VINING [non-professorial appointment until 1927]	1922-46

Paediatrics and Child Health

WILLIAM STUART McCRAE CRAIG	1946-68

Surgery

HARRY LITTLEWOOD	1904-10
ROBERT LAWFORD KNAGGS	1910-19
BERKELEY GEORGE ANDREW MOYNIHAN	1925-27
JOSEPH FAULKNER DOBSON	1927-33
HAROLD COLLINSON	1933-36
ETHELBERT REST FLINT	1936-40
DIGBY CHAMBERLAIN	1946-56

Clinical Surgery

BERKELEY GEORGE ANDREW MOYNIHAN	1910-25
JOSEPH FAULKNER DOBSON	1925-27
HAROLD COLLINSON	1927-33
ALFRED RICHARDSON	1933-34
ETHELBERT REST FLINT	1934-36
LEONARD RALPH BRAITHWAITE	1936-38
HUBERT WALLACE SYMONS	1940-56
PERCIVAL JOHN MOIR	1952-60
DIGBY CHAMBERLAIN	1956-61

Urological Surgery

LESLIE NORMAN PYRAH	1956-64

Anæsthesia

RICHARD PENN HARBORD [non-professorial appointment]	1947-63
JOHN FRANCIS NUNN	1964-68

Obstetrics and Gynaecology

CHARLES JAMES WRIGHT	1904-08
JOHN BENJAMIN HELLIER	1908-18
EDWARD OCTAVIUS CROFT	1918-23
CARLTON OLDFIELD	1923-30
WILLIAM GOUGH	1931-36
ANDREW MOYNIHAN CLAYE	1936-61

Radiology

ALAN STEWART JOHNSTONE	**1948-68**

Pharmacology

WILLIAM ALEXANDER BAIN	1946-59
DEREK RAWLINS WOOD	1960-69

Pharmacology and Therapeutics

EDMUND FAURIEL TREVELYAN [non-professorial appointment until 1905]	1904-08
HENRY JOHNSTONE CAMPBELL	1908-19
RAWDON AUGUSTUS VEALE	1925-32
STANLEY JACK HARTFALL	1937-48

Public Health

JAMES SPOTTISWOODE CAMERON	1904-15
WILLIAM ANGUS	1917-19
JOHN JOHNSTONE JERVIS	1920-47
IFORWYN GLYNDWR DAVIES	1947-58

Forensic Medicine

HENRY JOHNSTONE CAMPBELL	1904-08
FRIEDRICH WILHELM EURICH	1908-32
WALTER HENRY MAXWELL TELLING	1932-38
PETER LINDSAY SUTHERLAND	1938-46
CYRIL JOHN POLSON	1947-69

Mental Diseases and Psychiatry

WILLIAM BEVAN-LEWIS [non-professorial appointment until 1908]	1904-10
JOSEPH SHAW BOLTON	1911-34
MATTHEW JOSEPH McGRATH [non-professorial appointment]	1935-46
HENRY VICTOR DICKS	1946-48
DOUGLAS ROBERT MacCALMAN (part-time 1954-57)	1948-57
GEORGE RONALD HARGREAVES	1955-62

Clinical Dental Surgery

THOMAS TALMAGE READ	1931-59

Dentistry

STEFAN MICHAEL WEIDMANN (oral biology)	1965-69

Institute of Education

WILLIAM ROY NIBLETT	1948-59
BASIL ALAIS FLETCHER	1961-67

Adult Education and Extra-Mural Studies

SIDNEY GRIFFITH RAYBOULD	1936-69

Librarian

MISS FANNY JULIET PASSAVANT	1904-19
RICHARD OFFOR	1919-47
BERTRAM SAMUEL PAGE	1947-69

Retired Members of Staff

The Council has resolved that the following shall have privileges as members of the University (see Charter XIX):

	Date of Retirement
EDWARD WALTER ALLAM	1967
PHYLLIS LUCY BAIRSTOW	1963
HARRY BAXANDALL	1966
ERNEST CHRISTOPHER BENN	1965
GEORGE WILLIAM BLACK	1968
WILLIAM BLACKLEDGE	1967
HAROLD BLOOD	1969
GEORGIANA MAY BONSER	1963
EUGENIE MARION BOSWORTH	1971
GEORGE IAN BOYD	1964
ANN FORREST BROWNLIE	1957
MARY BRYSON BRUCE	1971
WINIFRED MARY BURBURY	1960
GUY PATTERSON CHAPMAN	1953
IDA ELIZABETH CORK	1963
EDWIN JOHN CROSS	1958
WALTER ALFRED GEORGE DOYLE-DAVIDSON	1971
FREDERICK HENRY DUGGAN	1969
MAURICE ELLIS	1969
KATHLEEN MARY EULER	1971
DAVID HYWEL EVANS	1963
JOHN FOSTER	1969
FRANCIS JOSEPH GARRICK	1967
EDWARD LANGLEY GEORGE	1971
CECIL WALTER GILHAM	1956
HENRY JAMES SAMUEL GUNTRIP	1966
ANTHONY EDWARD CHRISTIAN HARE	1971
NORMAN HOLT HARTSHORNE	1961
ARNOLD HAUSER	1957
WILLIAM ROBERT HENDERSON	1969
HORACE HENSON	1968
DORA MARGARET HIBGAME	1948
BEATRICE HONIKMAN	1971
LESLIE HOW	1966
EMLYN HUGHES	1966
JEAN PHILIPPE INEBNIT	1955
ALBERT JOHNSON	1970
ARTHUR POWELL JONES	1964
THOMAS KERR	1969
CYRIL KISBY	1968
ARTHUR LIONEL KNIGHTON	1962
ARTHUR JOHN CRAIG LATCHMORE	1971
RAYMOND LESLIE LANGLEY	1957
CHARLES JOHN PATRICK DIGUES DE LA TOUCHE	1969
DOROTHY AMELIA LILEY	1959
JOHN VAUGHAN LOACH	1971

	Date of Retirement
WILLIAM HARWOOD LONG	1968
JOHN MacARTHUR	1969
JOHN CAMPBELL MACRAE	1966
AUDREY JOAN MARTIN	1968
FLORENCE MARGARET MAWSON	1962
HERBERT WILLIAM MERRELL	1947
ALFRED MILLARD	1970
HENRY ROBERT NOLTIE	1968
JOHN RAMSBOTTOM NUTTALL	1968
ANDREW KENNETH COSWAY OTTAWAY	1971
ARNOLD THORNTON PETERS	1969
LETTICE MARY PITHER	1963
ALBERT EDWARD PYBUS	1959
LILIAN RHODES	1967
GEOFFREY WALTER RICHARDSON	1961
WINIFRED FORSTER ROBSON	1955
EUGENE ROTHSTEIN	1966
LORNA IRIS SCOTT	1958
ROBERT ALISTAIR MURRAY SCOTT	1965
GRACE VALERIE MARY SELBY	1958
LUCY HELEN SHARPER	1963
DOROTHY SHEPHERD	1954
ROBERT SHILTON	1969
GILBERT FREEMAN SMITH	1965
FRANK LLOYD SOUTHAM	1969
LEONARD HUBERT STICKLAND	1971
JANET MARY AZILA STOTT	1968
WALTER STANLEY STUART	1959
ROBERT SUTHERLAND	1964
JOHN RICHARD HUGH TOWERS	1968
JOHN SELWYN TURNER	1967
EMLYN ALBERT VAUGHAN	1969
STANLEY ROBERT VIRGO	1969
SARAH ANNIE WALLBANK	1970
MARION BAILLIE HOWE WHYTE	1970
WILFRED ALAN WIGHTMAN	1962
JAMES STUART WILLCOX	1963
HENRY JOHN WOODS	1969

The following retired members of the staff are already, as graduates, members of the University:

ERIC CARY ALLIBONE	1970
GEORGE ARMITAGE	1961
HAMPSON BAINES	1960
THOMAS VINCENT BENN	1968
WALTER RICHARD BERRY	1962
EDWARD ERNEST BIBBY	1951
WILLIAM HENRY BLACKBURN	1964
PHILLIP STANLEY BRIGGS	1970
SYDNEY BURR	1950

	Date of Retirement
MARY CONSTANCE CALDWELL	1956
MARY BRENDA CAREY	1967
NORMAN HENRY CHAMBERLAIN	1970
DAVID WILLIAM CURRIE	1968
AGUSTIN DE IRIZAR	1958
ROBERT ERIC DICKINSON	1970
GEORGE HAINSWORTH	1971
GODFREY HERBERT ILLINGWORTH	1968
CHARLES JOHNSON	1966
KENNETH IRONSIDE JOHNSTONE	1970
CLIFFORD MERTON JONES	1967
JAMES EDWARD LAYBOURN	1951
DOROTHY MARY LEAK	1968
NORMAN LISSIMORE	1963
GEORGE ARTHUR NELSON	1969
ARTHUR BERNARD PAIN	1969
ERNEST KENNETH PALMER	1968
WILLIAM ARTHUR SLEDGE	1969
MARGARET METCALFE SMITH	1969
NORMAN HENRY SNAITH	1961
FRANCES MAY STEVENS	1970
JOHN GEORGE SYKES	1962
DOROTHY MABEL TURNER	1961
HENRY WHITAKER	1957

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See page 220.

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Law

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Mathematics

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Psychology

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Social Studies

See page 153. Faculty of Economic and Social Studies

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See under Faculty of Medicine, page 209.

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The Houldsworth School of Applied Science

The school comprises the four departments of fuel and combustion science, ceramics, chemical engineering, and metallurgy, together with the department of mining and mineral sciences. The parent department, founded in 1907 as the department of coal gas and fuel industries, was established to provide training in fuel and metallurgy as well as in refractory materials, while

mining has been studied since 1874 (i.e. in the Yorkshire College of Science, prior to the charter which established the University in 1904). The growth of the department during its first thirty years led to the establishment of separate degree courses based upon these subjects, together with a degree in general chemical engineering.

In 1956 the four constituent sections were reorganised as three departments, independent in themselves but so closely integrated as to form a school of applied science designed to cover the needs of a wide range of industries. In naming the school the University wished to commemorate Sir Hubert Stanley Houldsworth, Bt., Q.C., D.Sc., LL.D., a former member of the staff of the parent department and Pro-Chancellor of the University from 1949 to 1956.

In 1963 the department of mining and mineral sciences, formerly the department of mining, became one of the constituent departments of the school.

In 1965 ceramics was established as a full department within the school, together with a professorship in the subject.

The Livesey professorship was endowed in 1908 from a fund raised by public subscription from the British gas industry in memory of the late Sir George Livesey.

The school has the advantage of co-operation with the Gas Council in research supported by the Council and reviewed by an advisory committee of the Council and the University.

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See page 166 Faculty of Science

Pure and Applied Zoology

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Lecturers	Miss KATHLEEN V. COLLIS, M.B., Ch.B., *Leeds* S. K. DEVERAJ, M.D., D.C.P., *Madras* G. EAVES, B.Sc., *Manchester*, Ph.D., *Leeds*, M.Inst.P. R. FREEMAN, M.B., Ch.B., *Leeds* K. T. HOLLAND, B.Sc., Ph.D., *Leeds* B. B. G. NEHAUL, *O.B.E.*, M.B., B.S., *London*, M.R.C.S., F.R.C.Path., D.P.H., D.T.M.&H. J. G. SHOESMITH, B.Sc., Ph.D., *Manchester* One vacancy
Lecturer in Medical Mycology	E. G. V. EVANS, B.Sc., *Wales*
Honorary Lecturers	M. H. HAMBLING, M.D., *London*, M.R.C.Path., Dip.Bact., D.Obst.R.C.O.G. G. B. LUDLAM, M.D., *Edinburgh*, D.L.O., D.T.M.&H. G. L. GIBSON, M.D., *Glasgow*, M.R.C.Path.
Secretary	Mrs. MARJORIE KIDD
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Chief Technician	R. S. BURROW, A.I.M.L.T.
Senior Technicians	A. MYERS, A.I.M.L.T. S. PECK, A.I.M.L.T.

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Experimental Pathology and Cancer Research

Mackintosh Professor of Experimental Pathology and Director of Cancer Research	E. H. COOPER, M.D., B.S., *London*, D.Phil., *Oxford*, M.R.C.S., M.R.C.P.
Professor	D. B. CLAYSON, M.A., *Oxford*, Ph.D., *Leeds*
Senior Lecturer	J. M. HAMILTON, D.V.M., Ph.D., B.V.M.S., *Glasgow*, M.R.C.Path., M.R.C.V.S.

Lecturers	G. EAVES, B.Sc., *Manchester*, Ph.D., *Leeds*, M.Inst.P.
	C. R. BALL, B.A., *Oxford*, Ph.D., *London*
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Research Assistants	G. J. TURNBULL, B.Sc., *Leeds*
	L. STEELE, B.A., *Cambridge*
	H. W. VAN DEN BERG, B.Sc., *Leeds*
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Analyst	R. TURNER, L.R.I.C.
Electron Microscopist	Mrs. JUDY C. KNOWLES
Henry Oxley Fellow	Vacant
Elizabeth and Louisa Ward Fellow	Vacant
J. W. Wootton Research Fellow	Vacant
Angus Rhodes Research Fellow	P. HAASE, B.Sc., *Sheffield*
B.E.C.C. Research Fellow	Mrs. ANTONIA FLAKS, M.Phil., *Leeds*
Cancer Research Fellows	Mrs. SANDRA PEEL, B.Sc., *Manchester*, Ph.D., *Leeds*
	M. J. FULKER, B.A., *Keele*, M.Sc., *Birmingham*, Ph.D., *Keele*
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	P. J. O'BOYLE, M.B., Ch.B., *Glasgow*, F.R.C.S.
Secretary	Mrs. MARJORIE WILSON
Clerk	Mrs. MORENIKE OLUGBILE
Research Technologist	G. LITTLEWOOD, A.I.L.M.T.

Immunology

Professor and Head of the Department	G. GOWLAND, B.Sc., Ph.D., *Leeds*
Lecturers	D. G. SCOTT, M.B., Ch.B., *Edinburgh*
	Mrs. JUDITH V. WARREN, B.Sc., Ph.D., *London*
Joint Research Post	J. K. SARSFIELD, M.A., M.B., B.Chir., *Cambridge*, M.R.C.P.
Research Assistant	Mrs. PAMELA V. TAYLOR, B.Sc., *London*
Secretary	Miss E. A. HEMMINGWAY
Chief Technician	Miss S. MOORE, A.I.M.L.T.

Medicine

Medicine: Leeds General Infirmary

Professor and Chairman of the Department at the Leeds General Infirmary	G. P. McNICOL, M.D., Ph.D., *Glasgow*, F.R.F.P.S., F.R.C.P., M.R.C.Path.
Professor of Rheumatology	V. WRIGHT, M.D., *Liverpool*, F.R.C.P

Honorary Reader	D. TAVERNER, *M.B.E.*, M.D., *Leeds*, F.R.C.P.
Senior Lecturer in Biochemistry in Relation to Medicine	D. A. HALL, Ph.D., D.Sc., *Leeds*
Senior Lecturer	S. H. TAYLOR, B.Sc., M.B., Ch.B., *Birmingham*, M.R.C.S., M.R.C.P.E.
Honorary Senior Lecturers	O. M. TELLING, M.A., D.M., *Oxford*, F.R.C.P. R. N. TATTERSALL, *O.B.E.*, M.D., *London*, F.R.C.P. W. WHITAKER, B.Sc., M.D., *Leeds*, F.R.C.P. C. J. HAYTER, B.Sc., M.B., B.S., *London*, F.R.C.P.
Lecturers	C. L. SMITH, B.Sc., M.B., Ch.B., *Leeds*, M.R.C.P. J. B. STOKER, B.Sc., M.B., Ch.B., *Leeds*, M.R.C.P. J. K. WALES, M.D., *Leeds*, M.R.C.P. J. D. HARRY, B.Sc., Ph.D., M.B., B.S., *London*, L.R.C.P., M.R.C.S. (seconded to the Cardio-vascular Unit)
Arthritis and Rheumatism Council Lecturer in Bio-Engineering (1971-78)	A. UNSWORTH, B.Sc., *Salford*, M.Sc., Leeds
Honorary Lecturer	D. R. SMITH, M.B., B.S., *Durham*, M.D., *Malaya*, M.R.C.P.
Senior Registrar and Tutor	Vacant
Research Fellows	P. A. MAJID, M.B., B.S., *Patna*, M.R.C.P., *London* M. K. MEERAN, M.B., Ch.B., *Natal*, M.R.C.P., *London*, F.C.P., *South Africa* B. B. SEEDHOM, B.Sc., *Assiut*, Ph.D., *Leeds* B. SHARMA, B.Sc., *Agra*, M.B., Ch.B., *Lucknow*, D.C.H., M.R.C.P. G. R. JOHNSON, B.Sc., *Leeds* A. O. FRANK, M.B., B.S., *London*, M.R.C.P.
Research Assistants	I. A. ARCHER, M.B., Ch.B., *Edinburgh* P. E. BURDETT, B.Sc., *Leeds* H. D. GRIFFIN, B.Sc., *Leeds*
Biochemist	T. DAVIES, B.Sc., Ph.D., *Wales*
Medical Social Worker	Miss ELEANOR M. BOOTH, A.M.I.A.
Part-time Instructor in Practical Nursing Procedures	Miss B. CHAMPNEY, S.R.N., S.T.D.
Medical Illustrator	H. GRAYSHON LUMBY, M.S.I.A., N.D.D.
Senior Experimental Officer	R. STAFFORD, B.Sc., *Wales*, M.I.Biol.
Clerks	Miss ANNE P. PADGETT Miss MARILYN S. ALLEN Mrs. B. GORDON Mrs. MARGARET JONES Mrs. JOAN McGRAIL
Senior Technicians	A. ALDERSON G. E. A. MORETON Mrs. ANN A. SPENCER, B.Sc., *Belfast* C. J. CROWHURST

Medicine: Leeds (St. James's) University Hospital

Professor and Head of the Department at Leeds (St. James's) University Hospital	M. S. LOSOWSKY, M.D., *Leeds*, F.R.C.P.
Honorary Senior Lecturers	E. W. JACKSON, M.D., *Leeds*, F.R.C.P. A. LEESE, M.A., Ph.D., M.D., *Cambridge*, F.R.C.P. H. DROLLER, M.D., *Munich*, F.R.C.P., *London* and *Edinburgh*
Lecturers	B. E. WALKER, M.B., Ch.B., *Leeds*, M.R.C.P. K. MILOSZEWSKI, B.Sc., M.B., Ch.B., *Leeds*, M.R.C.P.
Honorary Lecturers	D. BARNETT, B.M., B.Ch., *Oxford*, M.R.C.P. J. R. GOLDING, M.A., D.M., *Oxford*, M.R.C.P. E. P. LANGWORTH, M.D., *Leeds* R. S. W. MIDDLETON, M.B., Ch.B., *Aberdeen*, M.R.C.P., *Glasgow* S. M. ROSEN, M.B., Ch.B., *Leeds*, M.R.C.P., *London* and *Edinburgh* L. ROSENTHAL, M.D., *Leeds*
Biochemists	J. KELLEHER, M.Sc., *Cork*, Ph.D., *Leeds*, A.R.I.C. Mrs. MARION J. SHELTAWY, B.Sc., Ph.D., *St. Andrews*
Clerk	Miss ANGELA SPENCE

Dermatology

Honorary Reader	N. R. ROWELL, M.D., *Newcastle*, F.R.C.P., D.C.H.
Honorary Senior Lecturer	S. T. ANNING, *T.D.*, M.A., M.D., *Cambridge*, F.R.C.P.
Lecturers	E. G. V. EVANS, B.Sc., *Wales* Miss MARGUERITE M. ROBERTS, M.B., Ch.B., *Manchester*, M.R.C.P.
Honorary Lecturer	W. J. CUNLIFFE, B.Sc., M.D., *Manchester*, M.R.C.P.
Honorary Demonstrator	A. J. E. BARLOW, M.D., *Leeds*, L.R.C.P., M.R.C.S.
Senior Registrar and Tutor	J. A. COTTERILL, B.Sc., *Durham*, M.B., B.S., *Newcastle*, M.R.C.P.
Research Fellow	Mrs. M. W. COSTEN, M.B., Ch.B., *Leeds*
Research Assistants	Mrs. BRENDA WILLIAMSON, B.Sc., *Hull* Mrs. BARBARA A. DODMAN, M.B., Ch.B., *Leeds*

Neurology

Honorary Senior Lecturers	M. J. PARSONAGE, B.Sc., M.B., Ch.B., *Manchester*, M.R.C.S., F.R.C.P., D.C.H. D. W. SUMNER, *T.D.*, B.Sc., M.B., Ch.B., *Manchester*, M.R.C.P.
Honorary Lecturers	J. B. COOK, M.D., *London*, F.R.C.P. S. CURRIE, M.B., B.Chir., *Cambridge*, M.R.C.P. M. R. PARSONS, M.A., M.B., B.Chir., *Cambridge*, M.R.C.P.

Tuberculosis

Honorary Senior Lecturer — G. F. EDWARDS, *M.B.E.*, M.B., B.S., *London*, F.R.C.P.

Venereal Diseases

Honorary Lecturer — J. A. H. HANCOCK, M.R.C.S., L.R.C.P.

Part-time Demonstrator — Mrs. JESSIE R. G. BUCHANAN, M.B., Ch.B., *Edinburgh*

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S. R. MEADOW, M.A., B.M., B.Ch., *Oxford*, M.R.C.P., D.Obst.R.C.O.G., D.C.H.

Senior Lecturer in Biochemical Paediatrics — J. M. H. BUCKLER, M.A., D.M., *Oxford*, M.R.C.P., D.C.H., *London*

Honorary Senior Lecturer — W. I. FORSYTHE, M.D., B.Ch., B.A.O., *Belfast*, F.R.C.P.E.

Lecturer — Miss CATHRYN B. HOWARTH, M.B., Ch.B., *Leeds*, M.R.C.P., D.C.H., *Glasgow*

Honorary Lecturers — M. W. ARTHURTON, M.D., B.S., *London*, D.C.H., F.R.C.P.

A. P. ROBERTS, M.B., B.S., M.R.C.P., D.C.H., *London*

Temporary Tutor — B. D. SPEIDEL, B.A., B.M., B.Ch., *Oxford*, M.R.C.P.

Joint Research Post — J. K. SARSFIELD, M.A., M.B., B.Chir., *Cambridge*, M.R.C.P.

Honorary Senior Lecturer in Infectious Diseases — J. STEVENSON, M.B., Ch.B., *Glasgow*, F.R.C.P.E., F.R.C.P.G.

Honorary Lecturers in Infectious Diseases — H. PULLEN, M.B., Ch.B., *Edinburgh*, M.R.C.P., D.T.M.&H.

A. J. WELLSTEED, M.B., B.S., *London*, M.R.C.P.

Honorary Lecturers in Paediatric Cardiology — Mrs. OLIVE SCOTT, M.D., *Sheffield*, M.R.C.P., D.C.H., *London*

F. J. MACARTNEY, B.A., M.B., B.Chir., *Cambridge*, M.R.C.P.

Honorary Lecturer in Ophthalmic Surgery and Paediatric Ophthalmology — R. B. HARCOURT, M.A., M.B., B.Chir., *Cambridge*, F.R.C.S.

Part-time Lecturer — Mrs. JOAN M. MACKINNON, M.B., Ch.B., *Edinburgh*

Field Health Visitor (*Spina Bifida*) — Mrs. BETTY WILSON, S.R.N., S.C.M., H.V.Cert.

Research Assistants	Mrs. GILLIAN LEVELL, A.I.M.L.T. Mrs. ANNE MEYNELL, M.B., B.S., *London*, D.Obst.R.C.O.G. Mrs. SHEILA SHEPPARD, M.B., Ch.B., *Leeds*
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Secretary	Miss ELIZABETH M. BOND
Clerks	Mrs. ELIZABETH MACDONALD Miss ANGELA M. TEMPEST Miss ELAINE WALKER Mrs. ROSALIND ELBOGEN

Psychiatry

15 Hyde Terrace, Leeds, LS2 9LT

Nuffield Professor	M. HAMILTON, M.D., *London*, F.R.C.P., D.P.M.
Senior Lecturers in Psychiatry	W. McC. ANDERSON, M.B., B.S., *London*, D.P.M., L.R.C.P., M.R.C.S., L.M.S.S.A. S. B. MAHAPATRA, M.B., B.S., *Utkal*, M.R.C.P., D.P.M.
Honorary Senior Lecturer	J. M. ROBERTS, M.D., *Edinburgh*, D.P.M., *Leeds*
Honorary Lecturer	R. D. MACDONALD, M.B., Ch.B., *Aberdeen*, D.P.H., D.P.M., *Manchester*
Lecturers in Psychiatry	Miss ISOBEL R. CARD, M.B., Ch.B., *Edinburgh*, M.R.C.P., *London*, D.P.M., *Leeds* J. L. BARTON, M.B., Ch.B., *Leeds*, D.P.M. One vacancy
Lecturers in Psychiatric Social Work	H. A. PRINS, Diploma in Social Science, A.A.P.S.W. C. PRITCHARD, M.A., *Bradford*, A.A.P.S.W., S.R.N., R.M.N.
Lecturers in Clinical Psychology	A. J. YOUNG, M.A., *Cambridge*, M.Ed., *Edinburgh*, W. I. HUME, B.Sc., Ph.D., *Bristol*, D.C.P.
Honorary Lecturers	M. FRIEZE, L.R.C.P., L.R.C.S., *Edinburgh*, L.R.F.P.S., *Glasgow*, D.P.M., *Leeds* Miss STEPHANIE M. LEESE, B.Sc., *London*, Dipl. Educ., M.B., B.S., *London*, L.R.C.P., M.R.C.S., D.P.M.
Part-time Lecturers in Psychiatry	R. E. D. MARKILLIE, M.B., B.S., *London*, L.R.C.P., M.R.C.S., D.P.M. D. A. SPENCER, M.B., Ch.B., *Edinburgh*, D.P.M., *Leeds* J. VALENTINE, M.B., Ch.B., *Glasgow*, D.P.M.
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Mental Health Research Fund Fellow	R. D. BAKER, B.A., *Wales*
M.R.C. Research Fellow	M. N. E. ALLSOPP, M.B., Ch.B., *St. Andrews*, D.P.M., *Edinburgh* and *Glasgow*, M.Sc., *Leeds*

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Clerks	Mrs. ELIZABETH SINCLAIR Mrs. ELIZABETH BARNES Mrs. VERA BARRACLOUGH Mrs. MILDRED MOWTHORPE

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General Surgery

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Reader in Surgery and Assistant Director, Professorial Surgical Unit	D. JOHNSTON, M.B., Ch.B., *Glasgow*, F.R.C.S.E., F.R.C.S.G.
Reader in Clinical Information Science	F. T. de DOMBAL, M.A., M.D., *Cambridge*, F.R.C.S.
Senior Lecturer	G. R. GILES, M.D., *Manchester*, F.R.C.S.
Honorary Senior Lecturers	H. S. SHUCKSMITH, *T.D.*, B.Sc., M.B., Ch.B., *Leeds*, F.R.C.S. D. B. FEATHER, Ch.M., *Leeds*, F.R.C.S. G. WILSON, M.B., Ch.B., *Leeds*, F.R.C.S.
Lecturer	T. T. IRVIN, M.B., Ch.B., Ph.D., *Aberdeen*, F.R.C.S.E.
Honorary Lecturers	F. G. SMIDDY, M.D., Ch.M., *Leeds*, F.R.C.S. J. H. SHOESMITH, M.B., Ch.B., *Leeds*, F.R.C.S.
Research Fellows	J. P. BOTTOMLEY, M.B., Ch.B., *Liverpool*, F.R.C.S., F.R.C.S.E. M. COOK, M.B., B.S., *London*, L.R.C.P., M.R.C.S.
Research Assistants	P. GUILLOU, B.Sc., M.B., Ch.B., *Leeds* C. S. HUMPHREY, M.B., Ch.B., *Leeds* D. LEAPER, M.B., Ch.B., *Leeds* P. J. LYNDON, B.Sc., M.B., Ch.B., *Leeds* R. B. SMITH, M.B., Ch.B., *Leeds* J. P. EDWARDS, B.Sc., *Reading*, A.I.M.L.T.
Medical Artist	Miss MARY D. BROWN, A.T.D., F.M.A.A., M.A.M.I., A.I.M.B.I.
Secretary	Mrs. DOROTHY BICKERDIKE
Clerks	Miss ELAINE BARTHOLOMEW Miss JANE HORROCKS Miss HAZEL BLACKBURN
Senior Technician	Miss GWYNETH V. SALTER

Neurological Surgery

Honorary Senior Lecturers

A. E. WALL, M.Sc., M.B., Ch.B., *Manchester*, F.R.C.S.
R. M. GIBSON, *E.R.D.*, *C.St.J.*, M.Sc., *McGill*, M.D., *Glasgow*, F.R.C.S.E., F.R.C.S.

Ophthalmology

Honorary Lecturer

B. MARTIN, M.A., M.B., B.Chir., *Cambridge*, F.R.C.S.

Honorary Lecturer in Ophthalmic Surgery and Paediatric Ophthalmology

R. B. HARCOURT, M.A., M.B., B.Chir., *Cambridge*, F.R.C.S.

Tutor

Vacant

Orthopædic Surgery

Professor

J. M. P. CLARK, *M.B.E.*, M.B., Ch.B., *Leeds*, F.R.C.S.

Honorary Lecturers

F. F. SILK, M.B., Ch.B., *Edinburgh*, M.Ch.Orth., *Liverpool*, F.R.C.S.E.
E. B. LONGTON, M.B., Ch.B., *Edinburgh*, M.Ch. Orth., *Liverpool*, F.R.C.S.E.
M. A. NELSON, M.B., B.S., *London*, F.R.C.S.

Senior Registrar and Tutor

W. HOLMS, M.B., B.S., *London*, F.R.C.S.

Leverhulme Research Fellow

M. W. FLOWERS, M.B., Ch.B., *Leeds*

Otology

Honorary Senior Lecturers

T. McM. BOYLE, M.B., Ch.B., *Leeds*, F.R.C.S.
O. C. LORD, Ch.M., *Leeds*, F.R.C.S.E.
C. P. MILLS, M.B., B.S., *London*, F.R.C.S.

Honorary Lecturer

A. G. GANDHI, M.B., B.S., *Bombay*, F.R.C.S.E.

Plastic Surgery

Honorary Senior Lecturer

W. M. H. SHAW, B.Sc., M.B., Ch.B., *Leeds*, F.R.C.S.

Thoracic Surgery

Honorary Senior Lecturers

GEOFFREY H. WOOLER, *T.D.*, M.A., M.D., B.Chir., *Cambridge*, F.R.C.S.
D. A. WATSON, M.B., B.S., *London*, F.R.C.S.

Honorary Lecturers

M. I. IONESCU, M.D., *Bucharest*
P. B. DEVERALL, M.B., B.S., *London*, F.R.C.S.

Research Assistant

Vacant

Chief Technician

L. A. CATCHPOLE, A.I.S.T.

Urological Surgery

Honorary Lecturers

P. B. CLARK, M.A., M.D., M.Chir., *Cambridge*, F.R.C.S.
R. E. D. WILLIAMS, M.D., Ch.M., *Glasgow*, F.R.C.S.E.
P. H. SMITH, M.B., Ch.B., *Leeds*, F.R.C.S.

Honorary Senior Lecturer in Renal Medicine

F. M. PARSONS, B.Sc., M.D., *Leeds*, F.R.C.P.E.

Honorary Tutor

R. K. CARRUTHERS, M.B., Ch.B., *St. Andrews*, F.R.C.S.

Anæsthesia

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Professor

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Reader

W. D. A. SMITH, *O.B.E.*, M.D., *London*, D.A., F.F.A.R.C.S.

Senior Lecturer

F. R. ELLIS, M.B., Ch.B., Ph.D., *Manchester*, D.A., F.F.A.R.C.S., D.Obst.R.C.O.G.

Honorary Senior Lecturers

A. T. HAWTHORNE, M.B., B.Ch., B.A.O., *Belfast*, D.A., F.F.A.R.C.S.
F. G. MACKINTOSH, M.B., Ch.B., *Aberdeen*, D.A., F.F.A.R.C.S.
J. J. L. ABLETT, M.B., B.S., *London*, L.R.C.P., M.R.C.S., D.A., F.F.A.R.C.S.

Lecturer

Vacant

Part-time Lecturer

M. D. HARGREAVES, M.B., Ch.B., *Leeds*, F.F.A.R.C.S.

Honorary Lecturers

D. W. CLARK, M.B., B.S., *London*, F.F.A.R.C.S.
V. A. GRIMSHAW, M.A., M.B., B.Chir., *Cambridge*, F.F.A.R.C.S.
R. S. EDMONDSON, M.B., B.S., *London*, F.F.A.R.C.S.(Eng.)
J. WILSON, M.B., Ch.B., *Edinburgh*, D.Obst. R.C.O.G., F.F.A.R.C.S.
W. N. WILD, M.B., Ch.B., *Leeds*, M.R.C.S., L.R.C.P., D.A., F.F.A.R.C.S.
D. POWELL, M.B., B.S., *London*, L.R.C.P., M.R.C.S., D.Obst.R.C.O.G., F.F.A.R.C.S.

Research Assistants

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Professor

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Fuel and Combustion Science	S. C. MITCHELL, B.Sc., *London*, F.R.I.C., C.Eng., M.Inst.F.
Ceramics	P. KNOTT, B.Sc., *Sheffield*, M.Inst.P., A.I.Ceram., M.I.V.I.
Chemical Engineering	A. POLLARD, B.Sc., *Leeds*, C.Eng., F.R.I.C., F.I.Chem.E., M.Inst.F., M.Inst.M.C.
Metallurgy	P. R. BEELEY, B.Met., Ph.D., *Sheffield*, F.I.M.
Mining and Mineral Sciences	P. M. DAVEY

Textile Industries	D. C. SNOWDEN, M.Sc., *Leeds*, F.T.I.
Colour Chemistry	C. L. BIRD, M.Sc., *Leeds*, F.R.I.C., F.S.D.C.
Procter Department of Food and Leather Science	S. WOLSTENHOLME, A.M.C.T., F.R.I.C.
Agriculture	G. E. TEASDALE, A.I.S.T. (*acting*)
Anatomy	W. HUTCHINSON, A.I.S.T.
Physiology	H. SALTER, F.I.S.T.
Biochemistry	T. A. SCOTT, B.Sc., Ph.D., *Leeds*
Pharmacology	R. C. KAYE, B.Pharm., Ph.D., *London*, F.P.S.
Pathology	T. W. SUTHERLAND, M.D., *Leeds*, F.R.C.Path.
Chemical Pathology	W. N. ANDERSON, B.Sc., Ph.D., *Belfast*
Bacteriology	R. S. BURROW, A.I.M.L.T.
Cancer Research	J. M. HAMILTON, D.V.M., Ph.D., B.V.M.S., *Glasgow*, M.R.C.Path., M.R.C.V.S.
Medicine	D. A. HALL, Ph.D., D.Sc., *Leeds*
Paediatrics and Child Health	Professor R. W. SMITHELLS, M.B., B.S., *London*, F.R.C.P., F.R.C.P.E., D.C.H., *London*
Surgery	D. JOHNSTON, M.B., Ch.B., *Glasgow*, F.R.C.S.E., F.R.C.S.G.
Anaesthesia	Professor D. G. McDOWALL, M.D., *Edinburgh*, F.F.A.R.C.S.
Obstetrics and Gynaecology	R. B. SPEIGHT, F.I.M.L.T.
Medical Physics	Professor F. W. SPIERS, *C.B.E.*, Ph.D., D.Sc., *Birmingham*, F.Inst.P.
Forensic Medicine	D. J. GEE, M.B., B.S., *London*, M.R.C.Path., D.M.J.
School of Medicine (Animal Attendants)	H. J. HOPKINS, F.I.A.T., M.R.S.H.
Dentistry	W. BETTY, A.I.M.L.T., A.I.S.T.
Dentistry (Biological Research Unit)	J. A. WEATHERELL, B.Sc., Ph.D., *Leeds*
Institute of Education	Professor T. H. B. HOLLINS, M.A., M.Ed.
Adult Education and Extra-Mural Studies	P. E. BROOKMAN, B.Com., *Leeds*
Library	D. COX, B.A., *Durham*, A.L.A.
Careers and Appointments Service	O. H. J. DICK, B.A., *London*
Photography	L. J. HEWITT, F.I.I.P.
Registrar's Office	Mrs. R. P. EVANS, M.I.W.S.P.
Bursar's Office	Mrs. R. P. EVANS, M.I.W.S.P.
Office of the Surveyor of the Fabric	F. H. RIPPING
University Television Service	D. J. G. HOLROYDE, B.A., *Oxford*, F.R.S.A.
University Athletics Grounds	I. BARRACLOUGH
Superintendent of Gardens	G. LAWSON, A.Inst.P.R.A.
Croft Hall	Miss L. GALBRAITH, M.I.M.A.
University Union	R. A. GRAVELING

The University Union

President	K. H. HIND, LL.B., *Leeds*
Secretary	A. JAROSZ
Permanent Secretary to the Union	A. L. IZATT
Finance Officer	G. E. E. V. STEPHENSON
House Manager	R. A. GRAVELING
Sports Administrator	MIKE G. BROOK
Clerks	Mrs. PATRICIA J. APPLETON Miss PATRICIA BESSELL Mrs. KATHLEEN BRIGGS Mrs. CHRISTINE DUFTON Miss E. A. FLETCHER Mrs. PAMELA HARRISON Miss RITA HOBBS Mrs. MARION E. KIRK Mrs. SHEILA M. SEDDON Miss JANET THACKRAY
President's Assistant	Mrs. EDNA WILSON
Manageress (Services Section)	Miss LINDA PEEL
Manageress of the Union Shop	Mrs. CLARE I. KENWORTHY
Bar Manager	L. TAYLOR, S.R.N.

The Old Students' Association

President and Honorary Editor	A. POLLARD, B.Sc., *Leeds*, C.Eng., F.R.I.C., F.I.Chem.E., M.Inst.F., M.Inst.M.C.
President of the London Branch	G. A. MELLOR, B.Sc., *Leeds*
President of the West Riding Branch	G. WOLEDGE, B.A., *Leeds*
Honorary Treasurer	P. A. SMITH, B.Sc., Ph.D., *Leeds*, F.T.I.
Honorary Secretaries	Mrs. BERTHE KEIGHTLEY D. L. MUNDEN, B.Sc., *Leeds*, F.T.I.

The Officers' Training Corps

Carlton Barracks, Claypit Lane, Leeds, LS2 9HA

Commanding Officer	Lt. Col. J. B. KEENAN, R.A.

The Yorkshire Universities Air Squadron

R.A.F. Church Fenton, Tadcaster, LS24 9SE

Commanding Officer	Squadron Leader M. J. BISHOP, B.Sc., R.A.F.

Representatives of the University on Committees and on Other Institutions

The number following the date indicates the number of years in the term of the appointment.

The Joint Matriculation Board

		Appointment expires
Dr. F. J. FOWLER		Sept. 1972 (1)
Professor ROBSON		Sept. 1972 (1)
Professor TAYLOR		Sept. 1972 (1)
Dr. W. F. WILLIAMS		Sept. 1972 (1)

Courts of other Universities

Aston in Birmingham	Professor COLE	June 1976 (5)
Birmingham	Professor HOLMES	Dec. 1972 (3)
Bradford	Professor J. NUTTING	March 1973 (3)
Bristol	Professor WALSH	May 1972 (7)
Hull	Professor GILLIES	July 1972 (3)
Lancaster	Professor CARTER	Dec. 1973 (3)
Liverpool	Professor R. F. BROWN	Dec. 1973 (3)
Nottingham	Dr. S. R. EYRE	Feb. 1973 (3)
Sheffield	Professor D. R. WOOD	June 1972 (3)

Education Committees

North Riding	Mr. J. GLOVER	March 1973 (3)
East Riding	Mr. J. D. RIDGE	Feb. 1972 (1)
Keighley Committee for Education	Mr. D. WARWICK	May 1972 (1)
Morley Further Education Sub-Committee	Dr. F. J. FOWLER	June 1972 (1)

Affiliated Institutions and Member Training Colleges of the Institute of Education

College of the Resurrection, Mirfield	Emeritus Professor RUSE	June 1972 (3)
St. John's College, York	Dr. P. H. J. H. GOSDEN	Sept. 1972 (3)
	Professor LOVELL	Sept. 1972 (3)
Bingley College of Education	Mr. D. WARWICK	
	Professor HOLLINS*	
Bretton Hall	Mr. J. D. RIDGE	
	Mr. W. B. THOMPSON	
Huddersfield College of Education (Technical)	Professor CARTER	April 1972 (3)
	Professor HOLLINS	April 1972 (3)
Ilkley College of Education	Dr. F. OLGA FLINT	Oct. 1972 (1)
	Mr. A. GRIFFITHS	Oct. 1972 (1)
City of Leeds and Carnegie College	Mr. D. LAYTON*	June 1972
	Professor MITCHELL	June 1972
James Graham College	Professor HOLLINS*	June 1972
	Professor HOLLAND	June 1972

*Nominated by the Institute of Education

	REPRESENTATIVES		
Margaret McMillan Memorial College of Education	Dr. Y. JOAN TOUGH	June	1974 (3)
	Professor THODY	June	1974 (3)
North Riding College of Education Scarborough	Professor HOLLINS*	April	1972 (1)
	Dr. R. W. OWEN	April	1972 (1)
The College, Ripon	Professor TINSLEY*		
	Dr. M. SHEILA GOSDEN	March	1974 (3)
	Dr. J. BRINDLEY		
Trinity and All Saints, Colleges	Dr. D. C. EARL	March	1974 (5)
	Professor GEACH*	March	1974 (5)
Woolley Hall	Mr. A. GRIFFITHS*		
	Mr. J. G. MATTOCK*		

Governing Bodies of Polytechnics

Leeds	Professor HOLLINS*		
	Professor A. L. ROBERTS		
Huddersfield	Professor HOLLINS*		
	Professor CARTER		

Governing Bodies of Schools

Aireborough Grammar School	Miss O. A. PARRY	Dec.	1973 (3)
Askrigg, Yorebridge Grammar School	Mr. A. DOWER	March	1973 (3)
Barnsley and District:			
Broadway Technical Grammar School	Professor LAWRENSON	May	1973 (3)
Holgate Grammar School	Dr. A. E. P. DUFFY	Jan.	1972 (5)
Grammar School Foundation	Dr. A. E. P. DUFFY	May	1973 (3)
Batley:			
Grammar School Foundation	Professor J. P. ROBERTS	March	1973 (3)
Group 1 Secondary Schools	Dr. D. C. GOODALL	Dec.	1973 (3)
Bentham, Collingwood and Baynes Foundation	Mr. A. G. MACKENZIE	Dec.	1973 (5)
Beverley Grammar School	Emeritus Professor VERSEY	Dec.	1972 (3)
Bingley Grammar School	Dr. P. R. BEELEY	Sept.	1973 (3)
Bradford Girls' Grammar School	Lady TUNBRIDGE	Oct.	1974 (3)
Bradford Grammar School	Professor F. G. HOLLIMAN	Dec.	1972 (3)
Bridlington School and School Foundation	Mr. W. H. BODDINGTON	Nov.	1973 (3)
		Aug.	1972 (3)
Brighouse:			
Grammar School for Girls	Dr. B. A. LILLEY	Dec.	1973 (3)
Rastrick Grammar School	Mr. P. M. SHEARD	July	1972 (3)
Brooksbank School, Elland	Mr. A. E. SMITH	Dec.	1973 (3)
Calder High School	Dr. G. HALLAS	Dec.	1973 (3)
Castleford Secondary Schools	Dr. G. HORNUNG	Dec.	1973 (3)
Cleckheaton, Whitcliffe Mount	Mr. F. T. MATTISON	Dec.	1974 (3)
Grammar School	Mr. M. J. RAYNER	Dec.	1974 (3)
Colne Valley Secondary School	Dr. W. BELFIELD	Dec.	1973 (3)
Cudworth Secondary School	Dr. J. R. HULETT	Dec.	1973 (3)
Dewsbury Secondary Schools	Mr. J. D. RIDGE	June	1972 (3)
Drax, Read Grammar School	Dr. D. R. HODGSON	March	1974 (3)

*Nominated by the Institute of Education

Easingwold Grammar and Modern School	Dr. T. B. CALDWELL	March	1973 (3)
Garforth County Secondary School	Mr. J. RAWCLIFFE	Dec.	1973 (3)
Goole:			
Grammar School	Mrs. B. ATKINSON	Dec.	1973 (3)
Modern School			
Halifax:			
Crossley and Porter Schools and Foundation	Mr. R. L. SPENCER	May	1972 (3)
		May	1973 (3)
Rishworth School	Professor JAMES	March	1974 (3)
Harrogate:			
County Secondary Schools (Claro Division)	Miss M. E. A. BOULTWOOD	Dec.	1973 (3)
Grammar School	Mr. G. L. BIBBY	Dec.	1973 (3)
High School	Dr. P. A. BRISCOE	Dec.	1973 (3)
Heckmondwike Grammar School	Dr. E. R. CLARK	Dec.	1973 (3)
Hipperholme Grammar School	Mr. W. B. THOMPSON	Nov.	1972 (3)
Horsforth Secondary School	Mr. G. N. STEPHENSON	Dec.	1973 (3)
Huddersfield, Holly Bank Special School	Professor SMITHELLS	Jan.	1972 (5)
Ilkley Grammar School and Foundation	Dr. K. D. PARKER	Jan.	1973 (3)
		July	1974 (3)
Keighley:			
Oakbank	Dr. P. J. C. CHILD	Dec.	1973 (3)
Drake and Tonson's Foundation	Mrs. I. K. GLAISTER	April	1973 (3)
Knaresborough, King James's Grammar School	Professor LINDEN	Dec.	1973 (3)
Knottingley High School	Dr. C. McGREAVY	Dec.	1973 (3)
Leeds, Agnes Stewart C. of E. Secondary School	Dr. LYNETTE R. MUIR	July	1973 (3)
Leeds Education Committee			
Governing Bodies:			
Allerton Area	Dr. F. W. CHATTAWAY	July	1972 (1)
Central Area	Emeritus Professor RUSE	July	1972 (1)
East Leeds Area	Professor LOVELL	July	1972 (1)
Lawnswood Area	Professor NUTTING	July	1972 (1)
Roundhay Area	Mr. J. HARTLEY	July	1972 (1)
Seacroft Area	Mr. D. L. MUNDEN	July	1972 (1)
South Leeds Area	Mr. A. RICHARDSON	July	1972 (1)
West Central Area	Dr. J. S. PADLEY	July	1972 (1)
West Leeds Area			
Colleges:			
Jacob Kramer College	Mr. S. CHAPLIN	Sept.	1974 (3)
Kitson College of Technology	Dr. R. A. BAKER	Sept.	1974 (3)
Leeds Athletic Institute	Mr. K. K. MITCHELL	Sept.	1974 (3)
Leeds College of Building	Mr. J. O. SURTEES	Sept.	1974 (3)
Leeds Music Centre		Sept.	1974 (3)
Park Lane College of Further Education	Mr. F. W. A. ZANKER	Sept.	1974 (3)
Thomas Danby College	Mr. G. GLEW	Sept.	1974 (3)
Advisory Committee Scientific Trades	Dr. G. W. JOHNSON Mr. A. W. WALTON		

Leeds Girls' High School	Dr. R. J. STILL	June	1972 (3)
Leeds Grammar School	Professor WALSH	May	1973 (3)
	Professor WILSON	May	1973 (3)
Leeds, Mount St. Mary's College	Dr. J. DRYHURST	June	1972 (3)
Lupton Foundation	Mrs. E. M. TODD	Feb.	1972 (4)
Malton Comprehensive School	Mr. W. H. TRICKETT	Oct.	1974 (5)
Mirfield Grammar School	Professor HOGAN	Sept.	1974 (5)
Morley:			
Grammar School	Dr. F. J. FOWLER	July	1973 (3)
Modern Schools			
Normanton Grammar School Foundation	Mr. H. C. HILLMANN	July	1972 (3)
Northallerton Grammar School	Mr. O. H. J. DICK	May	1975 (5)
Ossett Comprehensive School	Dr. A. N. BARKER	Dec.	1973 (3)
Otley, Prince Henry's Grammar School and Foundation	Mr. I. B. PERROTT	July	1972 (5)
Pickering, Lady Lumley's Grammar and Modern School and Foundation	Mr. J. COPLEY	May	1973 (3)
Pocklington School	Mr. W. TWEDDLE	May	1974 (3)
Pontefract:			
The King's School	Mr. J. W. COX	Dec.	1973 (3)
The King's School Foundation		July	1973 (3)
County Secondary Boys' School		Dec.	1973 (3)
Pontefract and District Girls' High School	Mrs. E. HARRISON	Dec.	1973 (3)
Secondary Girls' School			
Pudsey:			
County Secondary Schools	Dr. D. B. INGHAM	Dec.	1973 (3)
Fulneck Boys' School	Dr. J. W. BELTON	March	1973 (3)
Fulneck Girls' School	Dr. Y. JOAN TOUGH	March	1973 (3)
Richmond Comprehensive School	Miss IRENE WERTH	April	1973 (3)
Ripon Grammar School	Dr. J. BRINDLEY	Dec.	1973 (3)
Rothwell Grammar School, Stanley Modern School	Mr. J. RAWCLIFFE	Dec.	1973 (3)
Royston Secondary School	Mr. C. REYNOLDS	Dec.	1973 (3)
Scarborough:			
Girls' High School	Miss M. E. A. BOULTWOOD	May	1973 (3)
High School for Boys	Dr. J. R. LEWIS	May	1973 (3)
Scarborough College	Professor DOWSON		
Sedbergh School	Professor A. L. ROBERTS	July	1974 (3)
Selby Grammar School	Dr. G. A. MORRISON	Dec.	1973 (3)
Selby High School for Girls			
Settle, Giggleswick School	Professor DUGDALE	March	1973 (3)
Settle High School	Dr. M. SHEILA GOSDEN	July	1973 (3)
Sherburn High School	Mr. H. BROOKS	Dec.	1973 (3)
Shipley, Salt Grammar School	Dr. N. H. E. GIBSON	Dec.	1973 (3)
Skipton:			
Girls' High School	Mr. W. F. ARCHENHOLD	April	1977 (5)
Ermysted's Grammar School	Mr. R. HART	July	1974 (3)
Slaithwaite Educational Foundation	Mr. J. E. R. CONEY	April	1973 (3)
Sowerby Bridge County Secondary Schools	Dr. F. K. SUTCLIFFE	Dec.	1973 (3)

Tadcaster:			
Grammar School	Mr. J. GLOVER	Dec.	1973 (3)
Oglethorpe and Dawson Educational Foundation	Mr. M. KIRK	Nov.	1974 (3)
Teesside:			
Cleveland Grammar School	Mr. J. W. SAUNDERS	Oct.	1973 (2)
Eston Grammar School	Mr. F. A. ABERG	Oct.	1973 (2)
Middlesbrough Acklam Base Schools	Mr. A. E. EARLE	Oct.	1973 (2)
Thirsk:			
Grammar School	Dr. EDITH HARRISON	March	1973 (3)
Skellfield School	Mrs. C. S. WHEWELL		
Todmorden Secondary Schools	Mr. H. STANSFIELD	Dec.	1973 (3)
Upper Agbrigg Secondary Schools	Mr. R. SHILTON	July	1973 (3)
Wakefield:			
Grammar School	Dr. G. BROOK	July	1974 (3)
Silcoates School	Mr. W. J. ONIONS	July	1974 (3)
Wetherby High School	Mr. H. T. McDERMOT	Dec.	1973 (3)
Whitby Grammar School	Mr. A. E. EARLE	March	1973 (3)
Wortley Free School Trust	Dr. J. E. GARSIDE	May	1973 (3)
Yarm Grammar School	Mr. P. H. MACMILLAN	March	1973 (3)
York:			
St. Peter's School	Professor ARNOTT	Dec.	1973 (5)
York Secondary Schools:			
Region 1	Mr. M. H. LAW	May	1973 (3)
Region 5	Mr. B. G. HOOK	July	1973 (3)

Other Bodies

Adult Education, Universities Council for	Dr. J. W. BELTON Professor JEPSON		
Airedale and Wharfedale Institute of Further Education	Mr. C. REYNOLDS	Dec.	1973 (3)
Akroyd Foundation	Mr. J. TAYLOR	June	1975 (5)
	Professor HOLLIMAN	June	1975 (5)
Archæology, Council for British	Professor ARNOTT Mr. B. R. HARTLEY		
Archives, West Riding of Yorkshire (Northern Section) Committee of the National Register of	Professor A. J. BROWN Professor LE PATOUREL Mr. G. C. F. FORSTER		
Barnsley College of Technology	Mr. W. L. J. POTTS	July	1973 (3)
Brighouse Children's Theatre	Mr. E. G. HAUGER	July	1973 (3)
British Association for the Advancement of Science, West Yorkshire Area	Mr. G. R. J. JONES		
British Co-ordinating Committee for International Studies	Professor TAYLOR		
British Drama League (Northern Area Executive Committee)	Dr. C. L. BARBER		
British Universities Film Council	Mr. C. WOODHEAD	July	1972 (3)
Castleford, Whitwood Mining and Technical College	Mr. W. L. J. POTTS	Dec.	1973 (3)

City and Guilds of London Institute: Advisory Committees:			
Dyeing of Textiles	Mr. C. L. BIRD		
Leather Manufacture	Dr. F. OLGA FLINT		
Consultative Committee for Textile Subjects	Professor WHEWELL		
Clinical Research, Joint Committee for	The VICE-CHANCELLOR	March	1972 (1)
	The DEAN OF THE FACULTY OF MEDICINE	March	1972 (1)
	Professor SMITHELLS	March	1972 (1)
Dewsbury and Batley Technical and Art College	Dr. G. HALLAS	July	1974 (3)
Domestic Studies, National Council for			
Educational Research, National Foundation for	Professor LOVELL		
Federated Superannuation System for Universities, Central Council of	Professor CROSSLEY	Dec.	1972 (1)
	Dr. R. P. HULLIN	Dec.	1972 (1)
	Mr. E. WILLIAMSON	Dec.	1972 (1)
Field Studies Council, General Advisory Committee	Dr. G. E. BELL		
	Miss IRENE WERTH		
General Dental Council	Professor HOPPER	July	1974 (5)
General Medical Council	Professor D. R. WOOD	July	1972 (3)
Halifax: Percival Whitley College of Further Education	Dr. P. R. BEELEY	July	1973 (3)
Hamlyn Trust	Professor JAMES	March	1974 (5)
Harrogate College of Further Education	Dr. D. BUNN	July	1973 (3)
Health Visitors Training Centres Standard Conference	Dr. A. N. MacPHAIL		
	Miss R. E. CHAMBERS		
Hemsworth Mining and Technical Institute	Dr. N. BROOK	Dec.	1973 (3)
Higher Education Overseas, Inter-University Council for	The VICE-CHANCELLOR	July	1973 (4)
Holgate Hill Educational Settlement, York	Dr. T. B. CALDWELL	Jan.	1972 (1)
Hospital Standing Joint Committee	The VICE-CHANCELLOR	April	1972 (1)
	The DEAN OF THE FACULTY OF MEDICINE	April	1972 (1)
	Professor SPIERS	April	1972 (1)
I.C.I. Fellowships, Inter-University Standing Consultative Committee on	Professor LYTHGOE		
Joint Registrars' Committee	Professor GOLIGHER	April	1972 (1)
	Professor LOSOWSKY	April	1972 (1)
	Professor McDOWALL	April	1972 (1)
	Professor SCOTT	April	1972 (1)
Keighley Technical College	Mr. S. C. MITCHELL	Dec.	1973 (3)
Leeds Area Nurse-Training Committee	Dr. D. MACMILLAN	March	1976 (5)
Leeds Athletic Institute Advisory Board	Mr. K. K. MITCHELL		

Leeds Children's Holiday Camp Association	Miss E. P. M. BAILEY		
Leeds Council of Social Service	Mrs. C. D. E. COLLINS		
Leeds International Council	Mr. A. LAING		
Leeds-Lille Friendship Committee	Professor THODY		
Leeds Productivity Committee	Professor NUTTING		
Leeds Regional Medical Recruitment Committee	The DEAN OF THE FACULTY OF MEDICINE	March	1972 (1)
Leeds Teachers' Centre Advisory Committee	Mr. J. D. RIDGE		
Medical Education, Council of the Association for the Study of	Dr. J. B. LYNCH		
Naples Zoological Station Committee	Professor ALEXANDER		
National Educational Television Association	Mr. D. J. G. HOLROYDE		
National Leathersellers' College	Professor WARD	July	1974 (4)
National Poultry Diploma Board	Mr. C. L. JOHNSON	Dec.	1974 (3)
National Trust, Local Committee for Preservation of the Coast	Dr. J. R. LEWIS		
Postgraduate Medical Education, Standing Joint Committee for	THE DEAN OF THE FACULTY OF MEDICINE Professor HOPPER Professor G. P. McNICOL		
Bradford Area Committee	Mr. F. T. de DOMBAL		
Leeds Area Committee	Dr. N. R. ROWELL		
Public Records, Committee on	Professor LE PATOUREL		
Regional Cancer Service, Special Advisory Committee on	Professor COOPER	June	1972 (1)
	Professor KUNKLER	June	1972 (1)
Regional Rheumatism Committee	The VICE-CHANCELLOR Professor HERVEY Professor WRIGHT		
Ripon Diocesan Education Committee	Mr. W. B. THOMPSON	May	1973 (3)
Roman York Excavation Committee	Mr. B. R. HARTLEY		
Roundhay High School Scholarship Fund, Administrative Committee	Professor JACKSON		
Social and Public Administration, Joint Universities Council for	Mrs. C. D. E. COLLINS	Sept.	1972 (1)
	Dr. G. FRY	Sept.	1972 (1)
Social Administration Committee	Mrs. C. D. E. COLLINS	Sept.	1972 (1)
Public Administration Committee	Dr. G. FRY	Sept.	1972 (1)
Swarthmore Settlement Centre, Leeds	Dr. J. W. BELTON	Dec.	1974 (3)

	REPRESENTATIVES		
Universities and Accountancy Profession, Joint Committee of	Mr. P. M. SHEARD		
Universities Central Council on Admissions	Dr. J. MACGREGOR	July	1973 (3)
	Professor THODY	July	1973 (3)
	Professor J. G. WILSON	July	1973 (3)
Universities Council for Teacher Education	Professor HOLLINS		
	Professor JEPSON		
	Professor WALSH		
Standing Committee A	Professor HOLLINS		
Standing Committee B	Mr. D. LAYTON		
Standing Committee C	Professor WALSH		
Standing Committee D	Mr. J. D. RIDGE		
Wakefield, Pinderfields Hospital School of Remedial Gymnastics	Mr. R. E. MORGAN	July	1973 (3)
	Dr. C. KIDD	July	1973 (3)
	Mr. J. G. MATTOCK	July	1973 (3)
West Riding Central Examinations Council	Professor LOVELL*	June	1973 (3)
West Riding Consultative Committee for Education	Dr. P. H. J. H. GOSDEN	March	1972 (1)
Wool Industries Research Association Council	Professor WHEWELL	May	1974 (3)
Yorkshire Academic Board for Advanced Technology and Commerce	The VICE-CHANCELLOR	March	1973 (3)
	Professor COLE	March	1973 (3)
	Professor DUGDALE	March	1973 (3)
	Professor J. P. ROBERTS	March	1973 (3)
	Professor WHEWELL	March	1973 (3)
Yorkshire Arts Association	Mr. M. BANHAM		
Yorkshire Council for Further Education	Mr. E. G. HAUGER	March	1972 (3)
	Dr. A. JOWETT	March	1972 (3)
Yorkshire Council for Further Education:			
Committees:			
Business Studies	Mr. H. BROOKS	March	1974 (3)
Civil Engineering	Mr. J. RAWCLIFFE	March	1974 (3)
Coal Mining	Mr. J. MACFARLANE	March	1974 (3)
Electrical Engineering	Mr. G. L. BIBBY	March	1974 (3)
Food Technology	Professor WARD	March	1974 (3)
Gas	Mr. S. C. MITCHELL	March	1974 (3)
Management Studies	Mr. J. HAYES	March	1974 (3)
Mechanical Engineering	Dr. A. S. LEAH	March	1974 (3)
Metallurgy	Professor NUTTING	March	1974 (3)
	Mr. R. I. MARSHALL	March	1974 (3)
Social Workers	Mr. H. A. PRINS	March	1974 (3)
Programme for the Training of Teachers	Mr. J. G. MATTOCK*	March	1974 (3)
Consultative Committee on Agricultural Education	Mr. T. F. PREECE	March	1974 (3)
Advisory Panel:			
Educational Activities Among Adults	Mr. E. G. HAUGER	March	1974 (3)
Yorkshire Council of Social Service	Mrs. C. D. E. COLLINS		
Yorkshire County Boy Scouts' Association	Mr. G. WILSON		

*Nominated by the Institute of Education

		REPRESENTATIVES	
Yorkshire Federation of Women's Institutes, Committees on:			
Drama	Mr. B. J. WILKS	March	1973 (3)
Education and Public Questions		March	1973 (3)
Yorkshire (W.R.) Institute of Agriculture, Askham Bryan	Mr. T. G. BOAZ	March	1973 (3)
Yorkshire, Museum and Art Gallery Service for	Professor GOWING		
Yorkshire Rural Community Council	Dr. T. B. CALDWELL	May	1973 (3)
Yorkshire Rural Community Council Drama Committee	Mr. B. J. WILKS		
Young Men's Christian Association, Board of Management, City of Leeds	Mr. A. LAING	June	1974 (5)
Yorkshire Territorial, Auxiliary and Volunteer Reserve Association	Colonel E. WILLIAMSON	Nov.	1972 (3)
Zion Sunday School Fund	Professor TINSLEY		

External Examiners

Faculty of Arts

Hebrew	Professor J. MACDONALD, University of Glasgow
Arabic	Dr. R. WALZER, 2 Bladon Close, Oxford
Aramaic and Syriac	Dr. S. BROCK, University of Cambridge
English Literature	Professor CLIVE HART, University of Dundee and Professor SEAN LUCY, University College, Cork
English Language	Dr. R. I. PAGE, University of Cambridge
English (Linguistics)	Professor A. McINTOSH, University of Edinburgh
Icelandic (Modern)	Mr. H. PÁLSSON, University of Edinburgh
French	Dr. J. D. BIARD, University of Exeter, and Professor C. E. PICKFORD, University of Hull
Italian	Professor C. P. BRAND, University of Edinburgh
Spanish	Mr. C. B. MORRIS, University of Hull and Dr. C. C. SMITH, University of Cambridge
Portuguese	Mr. J. PARKER, University of Glasgow
Ancient History	Dr. A. J. GRAHAM, University of Manchester
Medieval History	Professor D. P. WALEY, London School of Economics
Modern History (International History)	Dr. I. H. NISH, London School of Economics
Philosophy	Professor S. KÖRNER, University of Bristol and Mr. J. L. MACKIE, University of Oxford
Chinese	Dr. J. D. CHINNERY, University of Edinburgh
Old Testament History and Religion	Professor J. MACDONALD, University of Glasgow
New Testament Studies	Dr. MARGARET THRALL, University College of North Wales, Bangor
Fine Art (History of)	Mr. M. KITSON, Courtauld Institute, 20 Portman Square, London W1H 0BE
Fine Art (Practice of)	Professor C. ROGERS, University of Reading
Phonetics	Mr. K. ALBROW, University College of North Wales, Bangor
Education	Professor E. A. PEEL, University of Birmingham and Dr. T. W. BAMFORD, University of Hull
Physical Education	Miss MARGARET CAUDWELL, Coventry College of Education, Canley, Coventry
English as a Second Language (postgraduate diploma)	Dr. D. BRADLEY, The British Council, Calle de Almagro 5, Madrid 4, Spain
Physical Education (M.A.)	Dr. J. D. BROOKE, University of Salford
English Literature (M.A.)	Professor L. CONNER, Chestnut Hill College, Philadelphia

Linguistics and English Language Teaching	Professor A. E. SHARP, University College of North Wales, Bangor
Drama and Theatre Arts (M.A.)	Mr. R. H. ROY, University of Hull
Phonetics (M.A.)	Professor D. ABERCROMBIE, University of Edinburgh
Education (M.A.)	Professor E. A. PEEL, University of Birmingham

Faculty of Education

Educational Studies	Mr. C. P. HILL, University of Exeter and Mr. M. CHAZAN, University College of Swansea
Biology	Professor J. F. SUTCLIFFE, University of Sussex
Communications and Arts Media	Mr. S. HALL, Birmingham Institute of Contemporary Cultural Sciences, Birmingham
Economics	Professor E. T. NEVIN, University College of Swansea
English	Professor T. A. DUNN, University of Stirling
French	Professor C. E. PICKFORD, University of Hull
Geography	Professor J. T. COPPOCK, University of Edinburgh
Language and Linguistics	Professor A. McINTOSH, University of Edinburgh
Physical Education	Dr. J. D. BROOKE, University of Salford and Miss OLIVE CHAPMAN, Avery Hill College, London SE9
Physical Sciences	Professor R. MASON, University of Sheffield
Psychology	Professor M. A. JEEVES, University of St. Andrews
Physics	Professor H. ELLIOT, Imperial College, University of London
Pure Mathematics	Professor T. J. WILLMORE, University of Durham
Rural Science	Professor O. V. S. HEATH, University of Reading
Social Studies	Professor J. REX, University of Warwick
Theology	Professor H. CUNLIFFE-JONES, University of Manchester

Faculty of Economic and Social Studies

Economics	Professor E. T. NEVIN, University College of Swansea
Economic History (M.A.)	Professor S. B. SAUL, University of Edinburgh
Economic Statistics (M.A.)	Professor R. A. COOPER, University of York
Labour Economics (M.A.)	Dr. J. CORINA, University of Oxford
Mathematical and Statistical Economics	Professor R. A. COOPER, University of York
Transport Economics (M.A.)	Dr. B. BAYLISS, University of Sussex
Accounting	Professor B. CARSBERG, University of Manchester
Economic Development (M.A.)	Professor P. ROBSON, University of St. Andrews, Scotland
Sociology	Professor J. REX, University of Warwick and Professor B. ABEL-SMITH, London School of Economics
Sociology (M.A.)	Professor J. REX, University of Warwick

Government	Professor H. R. G. GREAVES, London School of Economics
Politics (M.A.)	Professor H. R. G. GREAVES, London School of Economics
Agricultural Economics	Dr. K. A INGERSENT, University of Nottingham
Organisation Studies (M.A.)	Professor J. MORRIS, University of Manchester
Geography	Professor J. T. COPPOCK, University of Edinburgh
Development Administration (postgraduate diploma)	Mr. P. F. LEESON, University of Manchester

Faculty of Law

LL.M. Com.	Mr. J. S. HALL, University of Exeter
LL.M.	Professor K. R. SIMMONDS, University of Kent, Canterbury

Faculty of Science

Pure Mathematics	Professor T. J. WILLMORE, University of Durham
Statistics	Professor C. D. KEMP, University of Bradford
Computational Science	Professor F. H. SUMNER, University of Manchester
Physics	Professor H. ELLIOT, Imperial College, University of London
Physical Chemistry	Professor D. H. EVERETT, University of Bristol
Organic Chemistry	Professor L. C. CROMBIE, University of Nottingham
Botany	Professor E. W. YEMM, University of Bristol
Biophysics	Professor R. E. BURGE, Queen Elizabeth College, University of London
Genetics	Professor J. A. PATEMAN, University of Glasgow
Earth Sciences	Professor J. ZUSSMAN, University of Manchester
Bacteriology (B.Sc.)	Professor C. A. GREEN, University of Newcastle upon Tyne
Anatomy (B.Sc.)	Professor R. J. SCOTHORNE, University of Newcastle upon Tyne
Biochemistry (B.Sc.)	Professor J. MANDELSTAM, University of Oxford
Pharmacology	Dr. P. T. NOWELL, University of Liverpool
Pure Mathematics—Logic (M.Sc.)	Professor J. C. SHEPERDSON, University of Bristol
Pure Mathematics—Algebra and Analysis (M.Sc.)	Professor J. M. HOWIE, University of St. Andrews
Statistics (M.Sc.)	Professor C. D. KEMP, University of Bradford
Electronic Computation (M.Sc.)	Professor D. W. BARRON, University of Southampton

Combustion and Explosion (*M.Sc.*)	Dr. I. HURLE, Thornton Research Centre, Chester
Geochemistry (*M.Sc.*)	Dr. M. H. BATTEY, University of Newcastle upon Tyne
Clinical Psychology (*M.Sc.*)	Mr. J. G. WHITE, Queen's University, Belfast

Faculty of Applied Science

Civil Engineering	Professor M. R. HORNE, University of Manchester
Mechanical Engineering	Professor K. F. BANNISTER, University of Birmingham
Control Engineering	Professor E. H. FROST-SMITH, Queen's University, Belfast
Gas Engineering and Fuel and Combustion Science	Professor J. M. BEER, University of Sheffield
Ceramics	Professor J. WHITE, University of Sheffield
Chemical Engineering	Professor W. SMITH, University of Nottingham
Metallurgy	Professor E. C. ELLWOOD, University of Strathclyde
Textile Industries	Professor F. HAPPEY, University of Bradford
Colour Chemistry	Professor Lord TEDDER, University of St. Andrews
Leather Science	Dr. J. P. DANBY, National Leathersellers' College, London
Agriculture	Dr. J. B. OWEN, University of Cambridge
Agricultural Chemistry (*Soil Science/Plant Nutrition option*) *and* *Agricultural Science* (*Plant option*)	Professor E. W. RUSSELL, University of Reading
Agricultural Chemistry (*Animal Nutrition option*) *and* *Agricultural Science* (*Animal option*)	Professor D. LEWIS, University of Nottingham
Agricultural Botany and Agricultural Science (*Plant options*)	Professor J. COLHOUN, University of Manchester
Agricultural Zoology	Dr. R. J. WILLIS, Queen's University, Belfast
Animal Physiology and Veterinary Science	Mr. A. J. D. CAMPBELL, University of Glasgow
Construction Engineering (*M.Sc.*)	Dr. D. D. MATHEWS, Bowden Hall, Chapel-en-le-Frith, Stockport
Transportation Engineering (*M.Sc.*)	Professor R. WHITE, University of Newcastle upon Tyne
Tribology (*M.Sc.*)	Professor J. HALLING, University of Salford
Microwave and Communications Engineering (*M.Sc.*)	Professor A. L. CULLEN, University College, London
Fibre Science (*M.Sc.*)	Professor R. MEREDITH, University of Strathclyde
Food Science (*M.Sc.*)	Professor E. J. ROLFE, National College of Food Technology, Weybridge, Surrey

Colour Chemistry (*M.Sc.*)	Professor R. L. ELLIOTT, University of Bradford
Operational Research with Computing (*M.Sc.*)	Professor K. B. HALEY, University of Birmingham
Exploitation of Materials (*M.Sc.*)	Dr. R. H. E. GLENNY, National Physical Laboratory, Teddington, Middlesex

Faculty of Medicine and Dentistry

Anatomy	Professor R. J. SCOTHORNE, University of Newcastle upon Tyne
Physiology	Professor J. R. PICKLES, University College, Cardiff
Biochemistry	Professor S. P. DATTA, University College, London
Pharmacology	Dr. J. D. P. GRAHAM, Welsh National School of Medicine, Cardiff
Pathology	Professor A. C. P. CAMPBELL, University of Manchester
Bacteriology	Professor C. A. GREEN, University of Newcastle upon Tyne
Dermatology	Dr. D. S. WILKINSON, Whitecroft, Mervin's Road, Amersham, Buckinghamshire
Paediatrics and Child Health	Dr. J. APLEY, Bristol Royal Hospital for Sick Children, Bristol
Psychiatry	Professor A. MUNROE, University of Liverpool
Surgery	Professor I. GILLESPIE, Western Infirmary, Glasgow
Obstetrics and Gynaecology	Professor H. C. McLAREN, University of Birmingham
Public Health	Professor R. F. L. LOGAN, London School of Hygiene and Tropical Medicine
Forensic Medicine	Dr. D. RUSHTON, University of Dundee
Health Visitor's Certificate	Professor A. SMITH, University of Manchester and Miss GERALDINE WHITE, University of Southampton
Dental Surgery	Professor E. D. FARMER, University of Liverpool
Dental Mechanics and Dental Materials	Mr. J. H. FARRELL, University of Bristol
Dental Anatomy and Physiology	Professor C. H. TONGE, University of Newcastle upon Tyne
Children's Dentistry and Orthodontics	Professor W. J. TULLEY, Guy's Hospital Medical School, University of London
General Pathology and Bacteriology	Professor I. RANNIE, University of Newcastle upon Tyne

At the time of printing, external examiners for 1971-72 in the following subjects have not been appointed:

Greek
Latin
English for two-subject degree schemes
French (2)
German
Russian
Spanish
Modern History
History and Philosophy of Science
Music
History and Philosophy of Religion
Church History and Biblical and Historical Theology
Education (3)
English Literature (2) (M.A.)
Linguistics and English Language Teaching (M.A.)
Mongol Language and Mongolian Studies (postgraduate diploma)
Health Services Administration (postgraduate diploma)
Educational Studies (B.Ed.) (1)
Art and the Crafts (B.Ed.)
Chemistry (B.Ed.)
Drama (B.Ed.)
History (B.Ed.)
Applied Mathematics (B.Ed.)
Home Economics (B.Ed.)
Music (B.Ed.)
American Studies (B.Ed.)
Spanish (B.Ed.)
Economic History
Industrial Relations
Geography (1)
Agricultural Economics (M.A.)
Law (2)
Applied Mathematics
Inorganic and Structural Chemistry
Zoology
Psychology
Physiology
Combined Studies (B.Sc.) (Assessor)
Electrical Engineering
Geophysics (M.Sc. and postgraduate diploma)
Steroid Endocrinology (M.Sc.)
Applied Mineral Sciences
Mining
Food Science
Medicine
Psychiatric Social Work
Dental Pharmacology and Therapeutics

The Department of Adult Education and Extra-Mural Studies

Through its Department of Adult Education and Extra-Mural Studies, the University offers to people, particularly those living in its extra-mural area, facilities for study in subjects and interest areas in which the university has expertise. The extra-mural area includes the northern half of the West Riding of Yorkshire and the western part of the North Riding including Cleveland, together with the county boroughs situated within these areas and also the city of York. The Department consists of four divisions with titles corresponding to the main kind of work which they undertake. Three of the divisions are academic in character. One is concerned with the study of adult education, the second with the promotion of extra-mural programmes of liberal studies and the third with courses, mainly full-time, in applied social studies for students employed in, or preparing for, social work. All the members of the academic staff of the Department are members of one or other of these divisions, though arrangements are made when necessary for them to teach in any of the three. The fourth division, called the Special Courses Division, which has no full-time teaching staff, is responsible for the organisation and administration of refresher courses, mainly at postgraduate level, in which the course planning and teaching is undertaken by internal departments. This division attracts students from all over Britain and from Europe, America and Africa.

The Adult Education Division is charged with the study of and teaching about the education of adults. Courses are offered at the University and at various places in the extra-mural area. Some of these courses are addressed to people whose main professional concern is with the education of adults (e.g. teachers, organisers and administrators in University, W.E.A., L.E.A. adult education); some are offered to people for whom the education of adults is an important part of their duties (e.g. clergy, trade union officers, certain social workers). Courses of a general nature are regularly offered and courses dealing with special aspects of adult education are arranged to satisfy particular requests. The work of this Division is not limited to University adult education, or to liberal adult education, or to non-vocational adult education. The Division offers consultancy services to organisations on their adult education needs. Research into the education of adults is carried out by the staff of the the Division and by students and others working under Divisional supervision. Higher degrees in adult education may be undertaken by research.

The full-time social work courses provided by the Applied Social Studies Division are recognised professional training courses for probation officers and for the family social workers employed by local authority Social Service Departments and by voluntary agencies. The one-year course is for social science graduates who have had some previous experience, whilst the two-year course is for non-graduates. A one-year M.A. course for graduates with at least five years social work experience who have assumed or are likely to assume management and/or teaching responsibilities is planned for the 1972-73 session. The Division is associated with the teaching on full-time courses for Assistant Governors of Prisons and Borstals, which are held at the Prison Service Staff College, Wakefield. Provision is also made by the Division for short courses for magistrates, police officers and social work supervisors.

The Liberal Studies Division offers to adults living in the extra-mural area opportunities for systematic and thorough study in such subjects as history, archaeology, sociology, psychology, philosophy, theology, politics, economics, industrial relations, literature, fine arts, music, biology and geology. Most of the courses are tutorial classes of sixty or more meetings extending over two, three or, occasionally, four years. One-year classes may be provided if they are either preparatory to a tutorial class or if they are designed to begin at the level normally reached at the end of a tutorial class. Students are required, in addition to attending the meetings, to do reading, written work and other appropriate kinds of private study and investigation, or field work, under the direction of the tutor. The classes are conducted either by full-time lecturers on the staff of the Department of Adult Education and Extra-mural Studies, or by other members of the University's staff, or by other lecturers regarded as having a

comparable academic standing. Some of the courses are promoted jointly with the Workers' Educational Association through the Joint Tutorial Classes Committee. The remainder are organised directly by the Department through the Extension Committee. Students attending certain extension courses of at least two sessions' duration may enter for the University Extension Certificate.

The Liberal Studies Division also provides, through the Services' Education Committee, courses for members of Her Majesty's forces. The principal subjects of study are international relations, strategic studies, management and certain of the applied sciences.

The Special Courses Division is mainly concerned, in co-operation with internal departments, with the provision of residential courses, generally in advanced areas of study at postgraduate level, to meet the particular requirements of industry as expressed by individual firms or Industry Training Boards, local and central government bodies and professional institutions, or as anticipated by internal departments and the Special Courses Division. Some courses are provided annually whilst others of a more topical nature are offered as the occasion demands. A feature of most of the residential courses is that they cover recent developments in a wide variety of fields of study, and make available outside the University the results of recent research. Teaching is mainly by staff of the University but outstanding visiting lecturers are sometimes invited to participate. Courses are publicised throughout the whole of Great Britain and abroad. Generally they extend over five days but conferences, seminars and symposia of shorter duration are also arranged.

Evening courses on the same basis and intended to contribute to the post-experience educational facilities available to the professions are also offered for the convenience of residents in the extra-mural area. In addition the evening programme contains courses of a more general vocational appeal.

The Extension Certificate

Persons attending extension lecture courses of two or more sessions' duration may obtain a university extension certificate. The following regulations govern the award of the certificate:

2. Students in certain extension classes may be granted a university extension certificate. To obtain the certificate a student must normally have been a member of an extension class meeting for at least 120 hours during two or three academic sessions and must have:

(a) attended not less than 75 per cent of the meetings in each session

(b) done such other work as the tutor has required of them

(c) passed an examination at the end of the course.

3. A student who is deemed by the Senate to be suitably qualified may be exempted from attendance at the meetings of a University class for the equivalent of one-third of a course.

4. The certificate shall be endorsed for the subject of the course.

5. A mark of distinction may be awarded on the result of the examination.

6. A candidate who fails in the examination shall have one opportunity to re-sit that examination at a later date.

The Extension Advanced Certificate

1. The university extension advanced certificate is awarded to students who pursue an approved course of study and pass the examination prescribed. The minimum age of entry to the course is normally twenty-one years.

2. Candidates for an advanced certificate are required to join a university extension advanced course which meets for at least forty hours and to attend regularly (i.e. at least 75 per cent

of the class meetings in each session) throughout the course. The advanced certificate will be awarded to students who have satisfied the examiners and have obtained satisfactory reports on class work and such other work as may have been required.

3. An advanced course, being distinct from a continued course of study, may be instituted only for students of proved ability for that particular course who have worked satisfactorily for at least three years beforehand in a related subject or in the same general field.

4. A candidate who fails in any paper or test in the examination shall be required to repeat the whole of the examination at any supplementary examination, unless the marks obtained in that part of the examination in which the candidate has satisfied the examiners are deemed by the committee of examiners to justify exemption from this requirement.

5. A candidate who fails more than once in any part of the examination shall not be permitted to re-sit the examination.

6. The advanced certificate shall be endorsed for the subject of study.

7. A mark of distinction may be awarded for work of exceptional merit.

8. Names of successful candidates shall be published in alphabetical order.

The Institute of Education

The objects, functions and organisation of the Institute of Education which began its work in 1948 are set out in ordinance XXIX [see pages 47 to 51].

Full-time initial training courses for graduates and non-graduates are provided in the University Department of Education and the constituent colleges, and details of syllabuses, etc. are given in the handbook obtainable from the secretary of the Institute. The Institute is the body responsible for examining students in training in the area, for awarding an initial certificate in education to those who complete their course successfully, and for recommending students to the Department of Education and Science for recognition as qualified teachers. The degree of Bachelor of Education may be awarded to selected students at affiliated colleges of education who satisfactorily complete a further year of study after qualifying for the award of the certificate in education.

For teachers of experience who wish to undertake further educational studies the Institute has established a number of courses leading to diplomas. These normally involve full-time study at the University for one year.

The Institute library, consisting of works on education and allied subjects, is open for use each day by the students and staffs of the University and colleges as well as by teachers in schools. A system of postal borrowing has been organised for those who are unable to attend at the library in person. The Institute is also building up a limited collection of school text books, film strips and gramophone records for educational work.

The Institute arranges numerous courses and lectures, day, evening and residential, for practising teachers. These are held in Leeds and in various centres in the region, and cover a wide range of subjects.

In recent years the Institute has become increasingly involved in educational research and development. Some five research teams are currently working within it; details of their activities are set out in the Institute's handbook.

Since the beginning of the 1969-70 session the Department of Education and the central Institute have been associated as a School of Education. The School consists of all academic members of staff of the Department and of the central Institute, its function being to ensure overall planning and co-operation in educational research and studies undertaken by the Department and Institute within the University. The constitution of the School will be reviewed after three years' operation.

The University Television Service

The Service, the most comprehensive television project in a British university, was established early in 1965, and is charged with a responsibility to investigate and develop the effective use of television and other audio-visual media in university education. The main areas of development may be described as:

1. The use of television as a visual aid, employing its magnification or transmission capabilities within the existing structure of research and teaching

2. The employment of television as a systematic medium of teaching, involving a basic re-thinking of the role of conventional university lecturing

3. The synthesis of television and/or other audio-visual techniques into new forms of learning, including access by students to recorded materials.

The Service has operated since the summer of 1970 from a permanent Television and Audio-Visual Centre beneath the new Lecture Theatre Block, the largest Centre of its kind in any British or Commonwealth university. Its functions have included developing experimental teaching programmes, training teachers in television techniques, research into and evaluation of all types of audio-visual communication and acting as a central production and information service for all audio-visual and television activities in Leeds as well as in other universities. The Service is already providing elements of television and other resources of educational technology, including film, audio tapes, slides and graphics, for about forty university departments.

The television distribution network which has been installed throughout the university precinct, enables closed-circuit television transmissions to reach most of the main lecture theatres and laboratories in the University, including the Medical School. The professional staff of about twenty-six are able to provide, for all academic departments, a complete range of studio and mobile facilities. The ultimate aim of the Service is to contribute new learning materials in ways which may enable the University teaching staff more effectively to achieve their educational objectives, and to improve both the quantity and quality of university teaching.

Calendar
1971 - 72

Part 2

THE UNIVERSITY OF LEEDS

General Regulations 1971-72

Session 1971-72

The first term: from Wednesday, 6 October, 1971, to Friday, 17 December, 1971.
The second term: from Thursday, 13 January, 1972, to Wednesday, 22 March, 1972.
The third term: from Thursday, 20 April, 1972, to Wednesday, 28 June, 1972.

Session 1972-73

The first term: from Wednesday, 4 October, 1972, to Friday, 15 December, 1972.
The second term: from Thursday, 11 January, 1973, to Wednesday, 21 March, 1973.
The third term: from Thursday, 26 April, 1973, to Wednesday, 4 July, 1973.

Session 1973-74

The first term: from Wednesday, 3 October, 1973, to Friday, 14 December, 1973.
The second term: from Thursday, 10 January, 1974, to Wednesday, 20 March, 1974.
The third term: from Thursday, 18 April, 1974, to Wednesday, 26 June, 1974.

Session 1974-75

The first term: from Wednesday, 2 October, 1974, to Friday, 13 December, 1974.

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UNIVERSITY MUSEUM OF THE HISTORY OF EDUCATION	A30

REGULATIONS AND INFORMATION

Regulations Concerning Qualifications and Procedure for Admission

1. Students may be admitted to the University
   (a) to read for degrees of the University
   (b) to read for non-graduate qualifications of the University
   (c) to attend courses of tuition not leading to a qualification of the University
   (d) to pursue research not leading to a qualification of the University.

2. The classes and laboratories shall be open to men and women on the same terms.

3. Except in cases specially approved by the Vice-Chancellor, students must have reached the age of seventeen years before being admitted.

Application

4. All applicants for admission shall give a reference of whom inquiry may be made.

5. Applicants who are under the age of nineteen years and who have been in attendance at a school or other educational institution within one year of the date of their application must arrange for the headmaster or headmistress of the school or the head of the institution to provide a statement as to their suitability for admission.

6. Applicants from overseas may be required to produce certificates of identity.

7. Applicants whose native language is not English must provide evidence that they have a sufficient knowledge of both written and spoken English in accordance with the following paragraphs:

Except with the special permission of the Vice-Chancellor, applicants for admission to a course leading to a first degree of the University must, before they can be admitted to the University, provide evidence that they have attained at least the pass mark in each of the following parts of the examination for the Certificate of Proficiency in English of the University of Cambridge:

Oral: dictation, reading and conversation

Written: (i) use of English

(ii) English language (composition and a passage of English with language questions).

8. Applicants whose native language is not English admitted to courses of study in the University are required to undergo a test in English before the end of their first term. Students who fail to reach a satisfactory standard in this test will be required *either* to attend approved classes in English *or* to attend approved classes in English and other subjects during a year of study additional to the period required for a qualification of the University.

9 Applications for admission must be made on the appropriate forms.

10. (a) Applicants for admission to first degree and first diploma courses must apply for admission through the Universities Central Council on Admissions, P.O. Box 28 Cheltenham, Glos., GL50 1HY. The last date for the receipt of applications for admission in October, 1972 is 15 October, 1971, in the case of those applicants including Oxford or Cambridge among their preferences, and 15 December, 1971, for those applicants not including Oxford or Cambridge among their preferences.

(b) Applicants for admission to other than first degree or first diploma courses must apply direct to the University.

(c) Applications received after the above dates may be considered if places are available.

Matriculation

11. Applicants for admission to read for the degree of Bachelor of the University must provide evidence of having satisfied the requirements of the Joint Matriculation Board of the Universities of Manchester, Liverpool, Leeds, Sheffield and Birmingham. Particulars of the requirements may be obtained from the Secretary to the Board, Manchester, M15 6EU.

12. The University imposes certain additional requirements with respect to admission to read for degrees in certain faculties and departments. These requirements are listed in the appropriate faculty or departmental prospectus, copies of which may be obtained from the Registrar.

Registration

13. Students, and applicants accepted for admission, must comply with such directions as are given to them by their head of department and the Registrar concerning registration. Registration is in two forms:

(a) The October Registration

(i) All students will be required to register at the beginning of the session; the dates for session 1971-72 will be:

Wednesday, 6 October, 1971
Thursday, 7 October, 1971
Friday, 8 October, 1971
Students will be informed individually of the times at which they should attend.

(ii) Before registration all students must sign a declaration that they will observe the Statutes, Ordinances and regulations of the University for the time being in force. Ordinances and regulations governing the award of degrees and diplomas may be revised from time to time. Students who have started a course will either continue it under the old provisions or be given the opportunity of changing to the new provisions. The arrangements in each instance are specified in the appropriate faculty prospectus.

(iii) The deans and sub-deans of the faculties and heads of departments and their staffs will be present to advise students on their schemes of study. All students must obtain approval of the courses which they wish to pursue.

(iv) Students will then be registered as students of the University provided that they pay the appropriate fees to the office of the Bursar, or offer evidence satisfactory to the Bursar that they are holders of an award which includes payment of fees.

(v) Except with the special permission of the Vice-Chancellor, students may not attend any lecture, laboratory or other class until they have received a registration certificate which must be presented on request to the head of the department concerned before beginning any course of study.

(b) The June Registration

Students already in attendance at the University will receive in June cards of provisional registration which, subject to satisfactory academic performance and to the approval of their head of department, will enable them to be given any necessary academic authority to proceed to the next stage of their scheme of study at the beginning of the following session. Such students will be required to attend a short registration in October.

General Regulations

1. *Of residence*

(a) All students in full-time attendance are required to inform the lodgings warden each session before registering whether they wish to apply for residence in any of the accommodation recognised by the University and listed in the Schedule. Absolute priority will be given to undergraduate students in the first year of study at the University and the following students are normally expected to make their own arrangements for accommodation:

(i) Students who have obtained a first degree

(ii) Students who have obtained a diploma of the University

(iii) Students who have passed 2nd M.B., Ch.B., or 2nd B.Ch.D., or an equivalent examination

(iv) Students who are married

If however students in any of these categories wish to go into scheduled accommodation they may be able to obtain advice from the lodgings warden; but if they do move into scheduled accommodation they must then comply with the relevant regulations.

(b) Students residing in such scheduled accommodation may not normally move into accommodation not listed in the schedule until the following academic session. Moves from one form of scheduled accommodation to another will normally only be made after the end of term and applications to transfer must normally be made at least two weeks before the end of term.

(c) Students in scheduled accommodation are required to comply with any relevant regulations for that accommodation.

(d) All students, whether in scheduled accommodation or in unscheduled accommodation, are required to inform Students' Section in the Registrar's Office of their permanent home address and their term time address. Any change to either of these should be reported to that office as soon as possible on a 'Change of Address' Form.

(e) Any student in the University may apply to the lodgings warden for advice and help in regard to accommodation problems.

Schedule of accommodation recognised by the University

(a) University hall of residence

(b) University flat

(c) Recognised hostel

(d) Recognised lodgings

(e) Recognised non-University flat

2. *Of attendance and keeping terms*

Students shall attend punctually at the beginning of each term. Students who do not so attend may be refused permission to keep the term. Where delay in attending is due to illness or other unavoidable cause, a communication must be sent to the appropriate person as defined below, who will inform the Registrar. In cases of illness the communication should be accompanied by a medical certificate.

Students are required to be in residence throughout the whole of each term and may not absent themselves without permission from the appropriate person except at weekends, viz. mid-day on Saturday to 9 a.m. on Monday, and on recognised holidays. Students resident in halls are reminded that they must also comply with additional regulations that are applicable.

Students shall attend regularly, punctually and in an orderly manner, the course of lectures, laboratory work, tutorial periods and examinations prescribed in their schemes of study, together with such other lectures, classes or examinations as may be directed. Persistent neglect of work, repeated failure in examinations or unreasonable delay in presentation for an examination may result in a student being required to withdraw from the University. Students who are absent through illness or other sufficient cause shall send a written explanation at once to the appropriate person. In cases where absence through illness extends for more than one week, students shall send a medical certificate to the appropriate person.

The appropriate person to whom notification of illness must be sent or by whom permission to be absent for any reason other than illness may be given, who will notify the Registrar, is as defined below in respect of students taking the course stated:

B.A. or B.Sc. in one main subject, and LL.B.: The head of the appropriate department.

B.A. in two main subjects (first year), B.A. General Studies: The Sub-Dean of the Faculties of Arts, Economic and Social Studies and Law.

B.A. in two main subjects (second and third years in the Faculty of Arts), B.A. Classics and Modern Languages: The head of one of the departments concerned.

B.A. in two main subjects (all years) in the Faculty of Economic and Social Studies: The head of one of the departments concerned.

B.Sc. in two main subjects (combined): The Director of Combined Studies in the Faculty of Science.

M.B., Ch.B.: The Dean of the Faculty of Medicine.

All other courses: The head of the appropriate department.

Absence without permission may result in a student being required to withdraw from the University.

3. *Of progress procedure*

A clear indication will be given to each student at the outset of his course that unless there are special circumstances affecting his progress he will be expected to fulfil the University's examination requirements within the normal time.

Warnings, not necessarily in writing, may be given to students at any time by heads of departments, deans or sub-deans that failure to improve the standard of their work may lead to their course of study being terminated.

A student may be required to terminate his course, after consideration of his examination results, without previously having been warned.

4 *Of Jewish holy days*

Students who, for religious reasons, are unable to carry out their University work or examinations on Saturdays and Jewish holy days shall give notice of this fact in writing to the Registrar not later than 1 November each session.

It is the responsibility of such students to inform themselves concerning the work which has been done in classes from which they have been absent and to take appropriate action

Every effort will be made to avoid arranging examinations on Saturdays and Jewish holy days for those students who have informed the Registrar as required above, but the University reserves the right to hold examinations on such days if no alternative time is convenient.

5 *Of addresses*

Students shall inform the Registrar of their addresses. Changes of address must be communicated without delay.

6. *Of interference with the work of the University*

Members of the University who engage in activities that deliberately obstruct any aspect of the work of the University or prevent members or employees from going about their lawful business, will thereby render themselves liable to disciplinary action.

7. *Of dismissal*

Students who are dismissed for idleness or misconduct will forfeit all fees and privileges.

8. *Of damage*

Students shall replace or repair at their own expense apparatus or other property of the University which may have been destroyed or damaged by their fault.

9. *Of damage to property in charge of the University Union*

Students who damage property in the charge of the University Union may be fined by the appropriate committee of the Union. An appeal against any decision of the University Union may be made to the Vice-Chancellor.

10. *Of publication*

Except with the special permission of the head of the department concerned, students shall not publish the results of research done by them in the University or any matters given in the lectures or other tutorial classes.

11. *Of study during the vacations*

Students qualified to carry out independent work may be permitted to use the laboratories which may be opened for this purpose during parts of the vacations. Such students shall pay a fee and shall apply for admission to the laboratories to the heads of the departments concerned with whom shall rest the decision as to their suitability for admission.

12. *Of precautions against ionising radiations*

No person shall undertake work in the University with ionising radiations or with material which produces significant amounts of ionising radiation except with the approval of the head of the department concerned; and any person who undertakes such work, or who may, for other reasons, be subject to ionising radiations in the University, must co-operate and participate in the application of any scheme of monitoring or testing which the Radiation Protection Officer may require, and must attend such course of instruction as the head of department may require.

13. *Of academic dress*

Academic dress shall be defined in three ways as follows:

Academic undress: a black gown.

Academic dress:
Bachelors: black Bachelor's gown with appropriate hood
Masters: black Master's gown with appropriate hood
Doctors: black Master's gown with appropriate Doctor's hood.

Full academic dress:
Bachelors: black Bachelor's gown with appropriate hood and cap
Masters: black Master's gown with appropriate hood and cap
Doctors: appropriate Doctor's gown and cap without hood except where the gown is not faced with the distinctive colour of the doctorate, in which case the hood will also be worn.

All hoods shall be without cape, except for Masters of Philosophy and Doctors, and the hoods of Bachelors shall be lined. The colours of hoods appropriate to graduates of the University shall be as follows:

Bachelors of Arts: dark green

Bachelors of Music: dark green with a one-inch band of white silk laid on the outside

Bachelors of Divinity: dark green with white lining and band and with one inch of scarlet laid on the white silk

Bachelors of Commerce: light green lined with dark green

Bachelors of Education: dark green with a one-inch band of light green on the outside

Bachelors of Laws: light green

Bachelors of Science: middle green

Bachelors of Medicine and Bachelors of Surgery: dark green lined with light green

Masters of Arts: dark green with white lining

Masters of Education: dark green with white lining and band and with one inch of middle green laid on the white silk

Masters of Commerce: light green with white lining and band and one inch of dark green laid on the white silk

Masters of Laws: light green with white lining

Masters of Science: middle green with white lining

Masters of Philosophy: black stuff on silk lined with middle green with narrow binding of scarlet to the hood

Bachelors of Dental Surgery: dark green lined with middle green

Masters of Surgery: dark green with white lining and edged with light green

Masters of Dental Surgery: dark green lined with white and edged with middle green

Doctors of Philosophy: green lined with green with narrow bindings of scarlet

Doctors of Divinity: scarlet lined with dark green with white bindings

Doctors of Music: scarlet lined with dark green and having a one-inch band of white watered silk laid on the green one inch from the edge

Doctors of Letters, Laws, Science and Medicine: scarlet lined with green of the shade or shades appropriate to the faculty.

The colours of gowns appropriate to graduates and licentiates of the University shall be as follows:

Licentiates in dental surgery: black with facings and yoke of middle green with sleeves of elbow length bordered with green outside and white inside

Bachelors and Masters in all faculties: black

Doctors of Philosophy: green with sleeve linings of green and facings of green bound with scarlet

Doctors of Divinity: scarlet with sleeve linings of dark green and facings of white

Doctors of Music: scarlet with sleeve linings and facings of dark green with a one-inch band of white watered silk laid on the green one inch from the outside edge

Doctors of Letters, Laws, Science and Medicine: scarlet with facings and sleeve linings of the shade of green appropriate to the faculty.

The caps of licentiates, Bachelors and Masters [both men and women] shall be of the usual hard square pattern.

The caps of Doctors of Philosophy shall be of black velvet of the usual pattern.

The caps of Doctors of Letters, Divinity, Music, Laws, Science and Medicine shall be of black velvet of the usual pattern with a gold cord and a lining of the shade of green appropriate to the faculty.

Undergraduates of the University may wear black gowns.

The robe makers to the University by appointment shall be Messrs. Ede and Ravenscroft of 93 and 94 Chancery Lane, London, W.C.2. Representatives attend at Congregations of the University in order to robe persons who are to be presented for degrees.

14. *Of the arms of the University*

The arms of the University shall be 'Vert an open book proper edged and clasped gold inscribed with the words *Et augebitur scientia* between in chief three mullets argent and in base a rose of the last seeded proper. The crest shall be on a wreath of the colours a Greek sphinx sejant gules'.

Regulations Concerning Examinations

1. *Matriculation examinations*

Examinations for matriculation are conducted by the Joint Matriculation Board of the Universities of Manchester, Liverpool, Leeds, Sheffield and Birmingham. Correspondence should be addressed to the Secretary, The Joint Matriculation Board, Manchester, M15 6EU, from whom full particulars may be obtained.

2. *Departmental examinations*

Departmental examinations may be held at times and on conditions determined by the heads of the departments concerned.

All students reading for degrees are required to present themselves for the departmental examinations in their subjects of study. Students who fail in these examinations may be required to repeat their courses of study.

3. *Degree examinations*

The examinations will ordinarily be held in June each year but certain supplementary examinations will also be held in September. The conditions under which candidates may be accepted for supplementary examinations are defined in the ordinances and regulations governing degrees.

Candidates will be required to present themselves for the degree examinations in each subject at the end of the session in which they have completed the course of study in that subject unless they have obtained the permission of the board of the faculty concerned to defer the examination.

4. *Admission to examinations*

All students are required to apply for admission to degree and departmental examinations and to pay any appropriate fees for re-examination.

Applications for admission to examinations must, in all cases, be made to the Registrar on the appropriate form. Applications for examination in any subject will be accepted only from students who have regularly attended the prescribed courses of study and performed the work of the classes to the satisfaction of the head of department concerned and provided they are received before the last dates of entry for the examinations concerned as published in the University almanac.

5. *Blind or partially-sighted candidates*

Special arrangements will be made, on application to the Registrar, for persons registered as blind or partially-sighted who are candidates for University examinations.

The case of each candidate will be considered separately but for working his papers each candidate will be allowed extra time. This will be at least ten minutes in each hour and in mathematics papers at least twenty minutes in each hour.

6. *Conduct of examinations*

Candidates whose applications for admission to degree examinations have been accepted will receive an acknowledgement of their entry together with a copy of the regulations and information concerning the publication of the time-table. It is the responsibility of the candidates to ascertain the time and place of each examination they are taking.

Candidates should consult the lists posted on the doors of the examination rooms in order to ascertain the numbers of their places.

Results of examinations will be published as soon as possible after they have been approved by the Senate.

Congregations for the conferment of degrees will be held in March, September and December and after the end of the third term in each session.

General Information

1. *Student awards, financial aid, medals and prizes*

The University offers a number of awards, of which particulars will be found in the prospectus, *Student Awards, Financial Aid, Medals and Prizes.*

Except for the Margaret James scholarship and entrance scholarships tied to certain departments in the Faculty of Applied Science, to which separate reference is made in the regulations concerning student awards, the University has ceased to award entrance scholarships save in exceptional circumstances which include the case of an outstanding candidate who may not have support from any other source. A candidate eligible for a local authority award will not normally be given an entrance scholarship.

Financial grants or loans may be made to students by the University; applications should be addressed to the Registrar.

Grants or loans may also be made by local authorities and other bodies.

2. *Residence*

Application for places in scheduled accommodation should be made to the lodgings warden, who will give advice on all types of accommodation problems. Full details are given in leaflet SA/i, *Student Residence*, available from the lodgings warden.

3. *The University Union*

(A) *Student Ordinary Members*

Membership of the University Union is obligatory upon all students reading for degrees and also, except in special circumstances to be determined by the Vice-Chancellor, upon all students attending the University for more than six hours a week. The University Union comprises all recognised athletics clubs and a wide range of societies. Membership entitles students to the use of the Union building, to free instruction in the University gymnasium and to facilities for various sports and athletics.

Students who have paid a fee which does not include the Union fee may join the Union on payment of a subscription of £14.50 a session. If attendance is for part of a session only the fee will be £5 a term.

(B) *Life Members*

The following conditions shall apply to all past students applying for life membership:

(a) (i) In the case of applicants who have undertaken degree courses: That the applicant has completed his course and has ceased to be a registered student.

(ii) In the case of applicants who have undertaken a diploma course: That the applicant has completed his course and has ceased to be a registered student, his acceptance to be subject to the approval of Union Council.

(b) That the applicant shall have attended the University for at least two years or for at least one year in the case of postgraduates.

(c) That past students who have paid five or more annual subscriptions shall, on application to the Union, become life members.

(d) That past students who have paid less than five annual subscriptions will be required to pay on application a fee of £5.25 to become life members.

(e) Life membership granted on or after 1 August, 1957, requires payment of the full Union annual subscription for the time being in force should such a life member later return to the University to read for a degree or, except in special cases to be determined by the Vice-Chancellor, to attend the University for more than six hours a week.

(f) Life members shall not take part in games or athletic sports unless they pay an annual fee of £1.05.

(c) *Associate Members*

Members of other institutes of higher and further education whose own union facilities are not adequate, persons from overseas engaged on courses on an exchange basis, persons engaged on any course at this University who are not required to pay the full fee, and any person whom Union Council shall in its discretion decide, shall be admitted to associate membership subject to the approval of Union Council and to (A) above.

(d) *Annual Members*

Annual members, being previous members of the Union who have been registered students of the University during the previous session and have shown their intention of resuming their University course in the next session will be required to pay a fee of £14.50 for one session and the period of this membership shall be limited to one session.

(e) *Ordinary Members*

Ordinary members, being members of the University academic and senior administrative staff, will be required to pay an annual fee of £1.05.

4. *Designated ministers of religion*

The following ministers of religion have been designated by their respective communities to give help and guidance to those of their community who are members of the University:

Baptist Church
The Rev. H. Harvey, M.A., 4 Caythorpe Road, Leeds, LS16 5HW. Telephone: Leeds 51129.

Church of England
The Rev. Alan Overell, M.A., 7 North Grange Mount, Leeds LS6 2BY. Telephone: Leeds 53830.
The Rev. J. White, B.A., 130 Eden Crescent, Leeds, LS4 2TR. Telephone: Leeds 51195.

Congregational Church
The Rev. G. G. Thrussell, M.A., 3 Ashwood Terrace, Leeds, LS6 2EH. Telephone: Leeds 52528.

The Jewish Community
Rabbi Dr. S. Brown, 20 Nunroyd Road, Leeds, LS17 6PF. Telephone: Leeds 685320.

Methodist Church
The Rev. D. G. A. Calvert, M.A., B.D., 'North Field', 167 Otley Road, Leeds, LS6 3QG. Telephone: Leeds 52323.

Presbyterian Church
The Rev. A. S. Cooper, B.A., M.A., 3 The Ring Road, West Park, Leeds, LS16 5AJ. Telephone: Leeds 56608; Church: Leeds 54805.

Roman Catholic Church
The Rev. A. Byron, S.J., M.A., S.T.L., 25 Clarendon Place, Leeds, LS2 9JY. Telephone: Leeds 27421.

Unitarian Church
The Rev. M. Bonner, 8 Woodbourne Avenue, Leeds, LS17 5PQ. Telephone: Leeds 685916.
Mill Hill Chapel, City Square, Leeds, LS1 5EB.

5. *Physical education*

Students are strongly advised to take advantage of the extensive facilities for physical education provided by the University. There are opportunities for participation in a wide variety of recreative physical activities including team games, swimming, mountaineering, various forms of dancing, gymnastics and indoor games. Provision is also made for developmental physical training.

Special provisions are made for students to take part in outdoor activities of many kinds in the Pennines and the Lake District. The Department of Physical Education has an expedition truck and a mountain hut which are both available for the general use of students under supervision.

The sports hall and gymnasia are open to all members of the University Union except when reserved for students taking special courses of study.

There is a special arrangement for students to use the Olympic swimming pool on the edge of the University precinct.

Students are advised to consult the staff of the Department of Physical Education, in the Physical Education Centre near the University Union, during the registration days.

6. *Student health*

In order to avail themselves of the provisions of the National Health Service, students living away from their homes during the University terms are advised to register with a doctor in Leeds for the period of their University course. Students have free choice of doctor, and advice on this matter can be obtained at the time of registration from the Secretary of the Student Health Department. Students may register with the University Physicians and a comprehensive service will then be available to them. The University Physicians, however, will not be able to undertake the treatment of students who are not registered with them except in cases of genuine emergency. Students will need to produce their National Health Service medical cards for the purpose of medical registration.

The Student Health Department offers a preliminary medical interview, together with any necessary examination, to any student who desires it. All students on entry are required to undergo a chest X-ray examination by the mass radiography unit unless exemption is obtained. Vaccination against tuberculosis, tetanus and poliomyelitis is offered to all students.

A sick bay is provided to which students may be admitted when ill and in which, during convalescence, it is possible in some cases for them to continue their studies. The telephone extension of the department is 6594.

7. *Safety in the University*

Matters of safety policy in the University are determined by a Senate committee on University safety, with sub-committees to advise on radiation protection and fire protection.

The University Safety Officer

The University Safety Officer advises upon matters of safety within the precinct, particularly in laboratories and other places of work, and in the planning of new buildings. His responsibilities include ensuring the awareness of all members of the University of safety problems; securing the training of departmental safety supervisors and others; providing, in co-operation with the University Medical Officer, instruction in first aid; compiling and analysing accident data. The duties of the University Safety Officer also include responsibility for the provision and maintenance of fire fighting equipment and for liaison with the Local Authority and City Fire Brigade on matters concerning fire protection in the University.

Departmental safety supervisors have been nominated by heads of departments to provide links between the University Safety Officer and the departments.

A University Safety Handbook has been prepared for general distribution in the University, and from time to time information sheets dealing with specific hazards are sent out to departmental safety supervisors. The telephone extension of the University Safety Officer is 6592.

University Radiation Protection Service

The University Radiation Protection Service provides the health physics services required in the University for persons working with or otherwise exposed to ionising radiations or radioactive materials. Persons who are to work regularly with ionising radiation have an initial haematological examination and, in some cases, a general medical examination, and are subsequently monitored for exposure by personal film-badge dosimeters where appropriate, and by regular blood counts. Courses of lectures on the biological effects of radiations and the precautions to be taken when working with radiation are provided for both undergraduate and postgraduate students. The University is subject to certain statutory requirements relating to radioactive materials and has published *Local Rules for Radiation Protection* which all persons are required to observe. *See* also General Regulation 12, on page A6.

8. *Security*

The Assistant for Security is part of the Administrative Services branch of the Bursar's office and is responsible for advising on all aspects of security with regard to all buildings and grounds occupied for University purposes, including those in the precinct, halls of residence, and other places owned by the University. His responsibilities include the safe custody of property and equipment, privately or University owned, incidents involving theft or damage to property and the unauthorised entry into University premises by persons not members of the University. He is also responsible for arranging for the patrolling of University premises, and general supervision of traffic control and car-parking arrangements within the precinct. He has over-all responsibility for the supervision of keys and locking systems and for the administration of any system for ensuring that maximum security of such keys is maintained.

The Security Office is situated on the lower ground floor in the Arts Block and is open 24 hours every day. Advice and assistance is readily available to both members of the University and the general public, especially during the 'silent' hours and weekends, and the telephone extension is 6111.

9. *Military education*

Facilities are provided for military education through the University Officers Training Corps (T. & A.V.R.) [which was formed at the University in July, 1909], and the University Air Squadron.

Information about service with the Royal Navy and the Royal Navy Volunteer Reserve may be obtained from the Naval Liaison Officer, Lt.-Commander C. W. Buckley, The Sycamores, Wayside Crescent, Scarcroft, Leeds, LS14 3BD.

Officers Training Corps
Honorary Colonel: Lt.-Col. E. Williamson, *T.D.*, B.Sc.(Econ.).
Commanding Officer: Lt.-Col. J. B. Keenan, R.A.
Adjutant: Capt. J. Eyeions, R. Anglian.

The Corps is a practical link between the University and the Army. Advice and help is given to undergraduates considering a Regular or Reserve Army career.

The aim of the training is to equip each officer cadet to accept responsibility and to develop his powers of self-discipline, initiative and leadership. Although the vehicle for this training is instruction in military subjects the aim is to develop the individual's potential so that he can exercise leadership in whatever profession, civilian or military, he may enter. Officer cadets normally take the Certificate of Military Training which *inter alia* gives significant advantages to potential regular officers.

Membership of the Corps is voluntary and training is arranged so as not to interfere with academic studies. Obligatory training consists of fifteen days Annual Camp and forty hours training during the year. In addition, officer cadets may attend weekend camps in term time, and courses/attachments to Regular Army units during vacations.

Officer cadets receive normal Army pay and allowances, besides travelling expenses or free warrants. Uniform and equipment is provided free. An annual bounty is also paid to each officer cadet on completion of his obligatory training. Membership is open to men and women. Membership is also open to undergraduates at Bradford and York Universities.

Further information may be obtained from O.T.C. Headquarters at Carlton Barracks, Claypit Lane, Leeds, LS2 9HA, telephone Leeds 23560.

The Yorkshire Universities' Air Squadron

The Yorkshire Universities' Air Squadron is established to promote interest in the Royal Air Force at the Yorkshire universities (Leeds, Hull, Sheffield, Bradford and York) and to attract entrants of good calibre into the service by providing facilities for undergraduates to learn to fly free of charge.

Applicants for membership must fulfil the requirements of Royal Air Force Selection and Medical Boards.

Upon joining the Squadron students become cadet pilots in the Royal Air Force Volunteer Reserve. RAF flying instructors give flying and ground instruction on Chipmunk aircraft at RAF Church Fenton. After two years flying, a member who has attained the required standard may be awarded preliminary 'Wings', and become eligible for a commission in the RAFVR. By this time he will have done aerobatics, instrument flying, navigation and formation flying.

For those who decide to make the service their career, university cadetships worth about £1,050 per annum are offered on a competitive basis.

Interviews for membership take place early in October, so the sooner you contact us the better.

Further information may be obtained by writing to the Commanding Officer, Yorkshire UAS, RAF Church Fenton, Tadcaster, Yorkshire, LS24 9SE, telephone Tadcaster 3881, ext. 236.

10. *The Careers and Appointments Service*

The Careers and Appointments Service advises students and graduates about all types of careers and employment and helps them to obtain suitable posts when they leave the university.

Undergraduate and postgraduate students are welcome to consult the appointments officers throughout their time at the University. Undergraduate students are strongly advised to have an initial interview before the end of their second year. The Service will be glad to assist first- and second-year students reading for degrees in pure or applied science who are advised by their departments to obtain suitable practical experience during the long vacations.

The Service has an extensive careers library at 38 University Road, containing information about a wide range of employers, types of work and postgraduate courses, which may be consulted by students during office hours.

11. *The adviser to overseas students*

To help overseas students to take the fullest advantage of their stay in England, the University has appointed an adviser to overseas students. This appointment is at present held by Mr. A. Laing, senior lecturer in education. Overseas students who have any matter they would like to discuss may call on Mr. Laing who will be pleased to see them and advise them.

The adviser's rooms are at 28 Blenheim Terrace, Woodhouse Lane, Leeds, LS2 9HD, directly opposite the main building of the University.

12. *Senior Common Room*

The Senior Common Room is a club for members of the academic, senior library and senior administrative staffs. Its premises include dining rooms, common rooms, a library and recreational rooms. Details of facilities provided are as follows:

Coffee Lounge—2nd floor. Coffee is available from 10.30 a.m. to 2 p.m., Monday to Friday and from 10.30 a.m. to 12 noon on Saturday.

Snack Bar—2nd floor (behind bar). A variety of salads, snacks and cold meals, etc., are served in this area from 12 noon to 1.45 p.m. Teas are also available in this room from 3.30 p.m. to 6 p.m. A cooked meal service operates from 5.30 p.m. to 7.30 p.m., Monday to Friday. Drinks can be purchased with these meals during licensed hours.

Bar—2nd floor. This is open from 12 noon to 2 p.m. and 6 p.m. to 10.30 p.m., Monday to Friday.

Main Dining Room—3rd floor. Waitress service meals are available from 12 noon to 2 p.m., Monday to Friday. Evening meals by special arrangement with the Chief Catering Officer. There is also a coffee service on a self-help basis on this floor.

Vacation openings will be posted on the Senior Common Room notice board.

13. *University House*

University House accommodates the refectory (on the ground floor), the refectory balcony, and the snack service, Gryphon Room and Vending Room (on the lower ground floor).

The refectory, which is open to members of all staffs and students, provides, from Monday to Friday, lunches from 11.45 a.m. to 1.45 p.m., and high teas from 4.30 p.m. to 6.30 p.m. Lunches on Saturday are served from 12 noon to 1 p.m. The refectory balcony serves a wide variety of salads from 12 noon to 1.45 p.m., Monday to Friday.

The main dining rooms operate on the self-service system.

Special arrangements for private functions in University House must be made with the chief catering officer. The accommodation may be available for reservation from 3.30 p.m. to 5.30 p.m. and from 7 p.m. to 10.30 p.m. Tea, supper or dinner may be provided for specified numbers.

The snack service on the lower ground floor is open from 10 a.m. to 6 p.m.

The vending room is open from 9.30 a.m. and can be used at all times when the Union is open. Hot and cold beverages, sandwiches, snacks, etc., are available here.

The Gryphon Room on the lower ground floor is open to members of all staffs and students and serves grills from 5 p.m. to 7.30 p.m.

The snack service and Gryphon Room do not open on Saturdays. Vacation openings will be posted on the notice board in the refectory.

14. *Cloakroom accommodation*

Lockers may be hired in the Parkinson building, the Arts Building, the Mathematics Building, the School of Medicine and the School of Dentistry on application to the porters' office in the building concerned.

15. *University of Leeds Industrial Services Ltd.*

The University formed a small limited liability company early in 1971 to operate from offices in the Parkinson Building. The Company is wholly owned by the University and will derive its income from contracts and consultancies it negotiates, with any surplus covenanted to the University. The Directors are all associated with the University and, with the exception of the full-time Managing Director, act in an honorary capacity.

U.L.I.S. operates as a central liaison agency which seeks to encourage industry to use the services the University can provide. Departments of the University are able to use the Company

—to publicise the research facilities and expertise of staff willing to undertake industrially sponsored work

—to help in seeking industrial support for research projects, through direct contracts and provision of posts for postgraduate and post-doctoral research workers

—to conduct the negotiations, in co-operation with departmental staff, for contract work including advice on costing, patent rights, consultancy fees and insurance

—for advice on patent procedure and the exploitation of inventions and new designs derived from research work.

Industry, commerce, government, local authorities and other organisations may use the Company to obtain introductions and channel enquiries to appropriate University staff.

The Managing Director, Mr. D. C. Soul, can be contacted on University telephone extension 7178 or directly through Leeds 24084.

16. *Commonwealth Universities Yearbook*

The Commonwealth Universities Yearbook is published annually in June and contains in its 2,000 pages general information and complete staff lists for all universities in Britain and other Commonwealth countries. Authoritative introductions precede the pages for Australia, Britain, Canada, India, New Zealand, Nigeria and Pakistan, and appendices include full entries for former member universities in the Republics of Ireland and South Africa, an extended summary of the admission requirements of universities in Britain and six other countries, and a section on the Commonwealth Scholarship and Fellowship Plan. In addition to national directories to subjects of study, there is a bibliography, a general subject index and an index of 120,000 names. Copies may be obtained from the Association of Commonwealth Universities, 36 Gordon Square, London, WC1H 0PF. The book costs £11 but the staff of the University of Leeds and other universities which are members of the Association may obtain copies direct from the Association at the reduced price of £7.15 post free.

17. *University publications*

Copies of the *Register of Graduates, 1965-70* a list giving the names of all persons who have graduated in the University from September, 1965 to September, 1970, together with the degrees (including honorary and *ad eundem* degrees) which have been conferred upon them, may be obtained from the Registrar, price 66p plus postage.

The following prospectuses and departmental leaflets are available:

General Information
General Regulations
Fees
Student Awards, Financial Aid, Medals and Prizes
Faculty of Arts
Faculty of Education
Faculty of Economic and Social Studies
Faculty of Law
Faculties of Science and Applied Science

School of Medicine
School of Dentistry

Combined Studies in Science
Greek and Latin
Semitic Studies
School of English
French Studies
Italian
Russian Studies
Spanish and Portuguese
School of History
Medieval Studies
Philosophy: History and Philosophy of Science
Chinese Studies
Theology and Religious Studies
Music
Graduate Certificate in Education
Physical Education
Centre for Science Education
Agricultural Economics
Postgraduate Degrees in Economic Studies
Geography
Diploma in Health Service Administration
Management Science (M.A.)
Mathematics
Physics
School of Chemistry
Zoology
Botany
The Astbury Department of Biophysics
Genetics
Earth Sciences
Biochemistry
Pharmacology
Civil Engineering
Mechanical Engineering
Electrical and Electronic Engineering
Fuel and Combustion Science, Fuel and Combustion Engineering
Science of Ceramics
Metallurgy
Chemical Engineering
Mining and Mineral Sciences
Mining Geology
Textile Industries
Colour Chemistry
Courses in Food Science, Leather Science, Food Engineering
Agricultural Sciences
School of Medicine
Food Science, Food Engineering (M.Sc.)
Exploitation of Materials (M.Sc.)

A list of publications by members of the University and of titles of theses accepted for higher degrees is published annually. Copies of the lists for the academic years 1938-50, 1950-1, 1952-3, 1953-4, 1954-5, 1955-6, 1956-7, 1957-8, 1958-9, 1960-1, 1961-2, 1962-3, 1963-4, 1964-5, 1965-6, 1966-7, 1967-8 and 1968-9 are available, price 12½p each.

The Library

The University library comprises the following:

1. The Brotherton library
2. The agricultural library
3 The Clothworkers' library
4. The medical library
5. The dental library
6. The Institute of Education library
7. The law library
8. Departmental libraries

Apart from the Brotherton Collection, it contains 922,847 volumes and pamphlets and has been most fortunate in receiving many valuable gifts. It is deeply indebted to many donors, individual and corporate, for regular contributions in money and books.

The *Brotherton library,* built by the generous gift of Lord Brotherton of Wakefield, contains the great majority of the books in arts and science and, in particular, the valuable Brotherton Collection, the private library of Lord Brotherton which, in accordance with his wishes, was presented to the University in 1935 by Mr. Charles Brotherton and Mrs. Dorothy Una McGrigor Phillips. The *Brotherton Collection* contains 48,065 volumes and pamphlets, 2,151 manuscripts, 4,116 deeds and 36,171 letters. It includes medieval manuscripts, 252 incunabula, a large number of other early printed books, the four folios of Shakespeare, some hundreds of Civil War and other seventeenth-century political pamphlets, and numerous seventeenth- and eighteenth-century plays and poems. Lord Brotherton acquired the early printed books collected by Lord Howard de Walden with their elaborate modern bindings. The strongest section of the Collection is in nineteenth-century English literature, especially in such authors as the Brontës, Browning, Byron, Cobbett, William Morris, Sir Walter Scott, Shelley, Swinburne and Tennyson. The letters include the whole of the correspondence of Sir Edmund Gosse from such persons as Lord Haldane, Thomas Hardy, Henry James, Lord Balfour, Austin Dobson, Oliver Wendell Holmes, and very many others. The Bram Stoker letters also number many thousands. The French section includes the manuscripts of D'Eon de Beaumont, and letters written to Victor Hugo by Juliette Drouet. There are extensive music and Yorkshire sections and also the late Alf Mattison's books and manuscripts on the history of the Labour Party. In 1950 Mrs. McGrigor Phillips presented her distinguished collection of Romany literature, comprising over 650 books and pamphlets, together with music, letters, manuscripts, pictures, etc.; she gave a sum to ensure its further development, and was until her death its Honorary Curator. A notable collection of books, manuscripts, letters and other documents relating to members of the family of Vincent Novello and especially to Charles and Mary Cowden Clarke (*née* Novello) was received in 1954, the gift of Donna Nerina Medici di Marignano Gigliucci and Contessa Bona Gigliucci.

Among the other valuable special collections in the Brotherton library are the Icelandic collection of 12,511 volumes and pamphlets formed by Mr. Bogi Melsted and since augmented by many gifts from Iceland; the library presented by the Leeds Philosophical and Literary Society to the University in 1936; the Library presented by the Yorkshire Geological Society in 1956; the Anglo-French collection of 3,000 volumes on the influence of

Great Britain over France, mainly translations into French from English before the nineteenth century; the Blanche Leigh collection of 1,300 books on cookery and household management, including Babylonian tablets and many early printed books; the John F. Preston collection of some 650 English cookery books; the Chaston Chapman collection of 1,116 books on the history of science, including many early works on alchemy; the All Souls gift of 2,294 volumes of early science and theology; the Harold Whitaker collection of about 450 county atlases and maps of the British Isles; the Roberts gift of books on contemporary fine art and fine printing; the Ogden collection of Babylonian and Assyrian tablets and other relics and books on fine art and Biblical studies; books on nineteenth-century travel and topography from Ripon Cathedral; the Adar Mitrecey books on magic; a long series of French cartularies; the C. F. Tetley mountaineering books; the very complete Denison Roebuck collection of British postage stamps; and many other gifts. Most recently, the Brotherton library has received by gift the private libraries of the late Professor G. T. Clapton (French history, literature and thought) and of the late Mr. Alfred Dressler (contemporary Russia and eastern Europe), as well as the fine Homeric collection of the late Professor J. A. Davison. It has also received through an anonymous gift the outstanding collection of post-Biblical Judaica (books and manuscripts) formed by the late Dr. Cecil Roth.

Regulations for the Brotherton Library

1. *Hours of opening*

The library is open

(a) from 9 a.m. to 10 p.m. on Monday to Friday, from 9 a.m. to 1 p.m. on Saturday, and (without loan service) from 2 p.m. to 7 p.m. on Sunday during the first and second terms and during the third term until the close of written examinations;

(b) from 9 a.m. to 9 p.m. on Monday to Friday and from 9 a.m. to 1 p.m. on Saturday during the Christmas and the Easter vacations, and between the close of written examinations and the beginning of the last fortnight of the third term;

(c) from 9 a.m. to 5 p.m. on Monday to Friday and from 9 a.m. to 12.30 p.m. on Saturday during the long vacation and the last fortnight of the third term.

It is closed at Christmas on those days when the University is closed; from Maundy Thursday at 5 p.m. up to and including Easter Tuesday; and on Late Summer Bank Holiday Saturday, Monday and Tuesday.

2. *Admission*

(a) Members of the Court, emeritus professors, members of the teaching, research and administrative staff (including members of the teaching, research and administrative staff of constituent member institutions of the Institute of Education), graduates, diplomates who have pursued a course of full-time study for not less than three years and registered students of the University, together with any others who are, or who have privileges as, members of the University, are entitled to the use of the library subject to the following regulations.

(b) Other persons may be allowed by the Librarian to read in the library on stating the subject of their studies and on producing a satisfactory recommendation. In special cases and on payment of 50p for twelve months they may also be allowed to borrow books.

(c) Members of an institution who are accorded the use of the library in virtue of an agreement between the institution and the University shall conform to the regulations of the library subject to such modifications as may be stipulated in the terms of the agreement.

3. *Discipline*

(a) Silence shall be observed in the library.

(b) Smoking, and the consumption of food and drink, in any part of the library is forbidden.

(c) No bag, attaché case or parcel shall be brought into the library.

(d) All books taken out of the library shall be checked by the attendant at the exit.

(e) No reader shall write in or otherwise mark books belonging to the library; and any damage to, or loss of, books shall be made good to the satisfaction of the Librarian.

(f) The Librarian has power to suspend the library privileges of any person who infringes the regulations, and shall report any such suspension to the library committee.

4. *Borrowing in general*

(a) No book shall be removed from the library unless the borrower shall have first filled in the form provided. The form will be returned to the borrower as a receipt for the book returned, and the borrower shall be responsible for the book as long as the form remains in the library uncancelled.

(b) All books may normally be borrowed, with the exception of works of reference and books of special value or rarity which may not be removed from the library without the authority of the Librarian.

(c) Abstracting and bibliographical periodicals, current parts of other periodicals, and certain copies [marked with a blue label] of books in exceptional demand may only be borrowed overnight or for the week-end or for any other period during which the library is closed. They will be issued not more than two hours before closing time on the days when the library is open until 10 p.m. and not more than one hour before closing time on all other days on the understanding that they will be returned not later than an hour after the next re-opening. Other books in much demand may be borrowed subject to return on the following day, or may be issued for such other limited periods as the Librarian may deem advisable. Failure to comply with the provisions of this rule will incur a fine of 5p in respect of each day or portion of a day by which the return of a book is overdue.

(d) All periodicals published within the last 25 years in the fields of chemistry, economics, fuel and ceramics, chemical engineering, civil and mechanical engineering, electrical engineering, geography, metallurgy, mining, physics, and psychology may be borrowed subject to return the following day. Failure to comply with the provisions of this rule will incur a fine of 5p in respect of each day or portion of a day by which the return of a periodical is overdue, the fine to commence on the fourth day of loan.

(e) Theses of the University, with certain exceptions, may, with the consent of the Librarian, be consulted or borrowed.

(f) Books may not be taken abroad without the special permission of the Librarian.

(g) No person shall borrow a book from the library if he has in his possession any book which he has kept beyond the time allowed by the regulations, or if any fine or charge which he has incurred has not been paid.

(h) The Librarian may withhold or restrict the circulation of any book in the library.

(i) The Librarian is permitted to grant special facilities during a limited time to any person entitled to the use of the library.

5. *Borrowing by staff*

Members of the teaching and research, and senior members of the administrative and library staff shall be entitled to have at one time not more than twenty-five books borrowed from the library, unless this number is increased by the special permission of the

Librarian. Books may be retained until a notice is received from the Librarian that they are overdue, in which case they shall be returned to the library without delay. A book shall be regarded as overdue when it has been in the possession of the borrower for a fortnight and is required by another person.

6. *Borrowing by postgraduate students reading for higher degrees*

(a) Except by special permission of the Librarian, postgraduate students reading for higher degrees shall be entitled to have at one time not more than ten books borrowed from the library for a period not exceeding three calendar months for each book; provided that any book required by another person may be recalled by the Librarian after it has been in the possession of the borrower for a fortnight and shall then be returned without delay.

(b) Failure to return books under rule 6(a) shall entail a fine of 2½p in respect of each day or portion of a day by which the return of a book is overdue.

7 *Borrowing by others*

(a) Except by special permission of the Librarian, the number of books which may be held on loan at any one time by borrowers other than those specified in rules 5 and 6 above shall be limited to four books during term and five books during a vacation. Students in the Department of Music may, however, borrow in addition up to two music scores.

(b) Subject to the exception stated in rule 7(c) a book shall be returned to the library on or before the twenty-eighth day following that on which it was taken out; provided that any book required by another person may be recalled by the Librarian after it has been in the possession of the borrower for a fortnight and shall then be returned without delay.

(c) Books taken out at the beginning of, or during, vacations may be retained not later than the seventh day of the ensuing term; provided that any book required by another person may be recalled by the Librarian after it has been in the possession of the borrower for a fortnight and shall then be returned without delay. It shall be regarded as overdue if not returned within seven days of being recalled.

(d) Failure to return books under rules 7(b) and 7(c) shall entail a fine of 2½p in respect of each day or portion of a day by which the return of a book is overdue.

8. *Annual inspection*

All books shall be returned to the library before the end of the third term at a date to be announced by the Librarian. The issue of books will be suspended during the inspection, but will be resumed not later than the following Monday week. Failure to return books under this rule shall involve a fine of 2½p in respect of each day or portion of a day by which the return of a book is overdue.

9 *Inter-library loans*

Books borrowed from other libraries are subject in each case to the conditions imposed by the lending library. If they are required for home reading, this fact must be mentioned in the application. The cost of postage is normally charged to the applicant, but will be paid by the library on behalf of students whose applications are recommended by the head of a department.

10. *Photocopying*

Detailed regulations for photocopying may be consulted in the library.

11. *Short loan collection*

A collection of duplicate textbooks, available for short term loan, is available in a room off the Parkinson Court and detailed regulations for its use may be consulted in the library.

Regulations for the Brotherton Collection

General conditions affecting access to the Brotherton Collection rooms

1. The rooms containing the Brotherton Collection are reserved exclusively for the purposes of the Collection and for persons having the right of access to the rooms.

2. Entrance to the Collection shall be only by way of the main entrance to the Brotherton library building.

3. No attaché case may be brought into the Brotherton library building.

4. Exit from the Brotherton library building by the main entrance will be subject in every way to the regulations imposed by the University on all readers, the attendant being instructed to examine all books and parcels that are taken past the barrier.

5. Smoking is strictly forbidden.

6. The rooms are open to authorised readers from 9 a.m. to 1 p.m., and from 2.30 p.m. to 5 p.m. from Monday to Friday; on Saturday from 9 a.m. to 12 noon.

7. The rooms are closed on those days when the University is closed

Access to the Brotherton Collection

8. Members of the Court, the Council and the Senate of the University, members of the academic staff of the University, and such administrative officers as the Council of the University may decide, and, with special permission, graduates and undergraduates of the University shall be allowed to visit the rooms during any of the statutory hours when the rooms are open, always provided that such persons shall have no access to the shelves or cases unless accompanied by the Keeper. They shall sign the register upon entering.

9. Members of the Court, the Council, the Senate and the academic staff may have access to the Collection for purposes of research and reference subject to the permission of the Keeper, and upon signing the register.

10. Graduates and undergraduates of not less than 18 years of age may be admitted as readers (a) on the recommendation of a member of the professorial staff and/or the Vice-Chancellor, (b) on receiving the ticket issued for that purpose, defining the object of the research or the books of reference to be consulted, and (c) after signing the register. Each ticket shall be available for such period as may be decided in each case, but not longer than three months at a time.

11. Persons other than members of the University may be admitted as readers on the following conditions:

(a) Every application shall normally be made two days at least before admission is required.

(b) Applicants must apply to the Keeper and state in writing their place of residence, occupation, age and qualifications and the object for which they wish to use the Collection. The application must be accompanied by a written recommendation from a person of recognised position having personal knowledge of the applicant and certifying his fitness, reliability and competence to make proper use of the Collection.

(c) The application must receive the approval of the Keeper and the Librarian. All applications shall be reported to the Vice-Chancellor and to the Brotherton Collection committee.

(d) On permission being granted the applicant will receive a ticket, which must be presented to the attendant on entering the building and to the Keeper on entering the Brotherton Collection, and shall be available for such time as may be decided in each case. He shall sign the register each day. Such tickets shall not be transferable and shall be returned when expired.

12. Individual persons not being members of the University may be given special permission to visit the Collection accompanied by the Keeper.

13. Groups of persons not being members of the University may be admitted to visit the Collection at such times as may be prescribed.

14. In the absence of the Keeper, the Librarian or his accredited deputy shall act in his place.

Rules applicable to all readers

15. Readers admitted to use the Collection shall be subject to the general regulations of the University library so far as relevant.

16. No books, MSS. or other articles in the Collection may be removed from the Brotherton Collection rooms.

17. Books of exceptional value or rarity may be consulted only in the presence of the Keeper.

18. The use of fountain pens or ink while consulting the books or MSS. is forbidden, and no tracing, copying or reproduction shall be allowed without the express permission of the Keeper.

19. No mark of any kind may be made by a reader on any book or MS.

20. The Keeper, in consultation with the Librarian, may cancel or suspend the use of a reader's ticket at any time when deemed necessary. Such cancellation or suspension shall be reported to the committee.

Regulations for the Agricultural Library

The library which is situated in the Department of Agricultural Sciences is open on Monday to Friday, from 9 a.m. to 5 p.m., and on Saturday, from 9 a.m. to 12 noon. It also remains open for reference until 9 p.m. on three evenings a week in term.

It is closed on those days when the University is closed, except for Spring Bank Holiday.

It is subject to the regulations of the Brotherton library, with the exception of regulations 3(c) and (d), 4(c) and (d), and 8, and with the following additions:

1. Reference books may not be removed from the library until 4.30 p.m. on Mondays to Fridays and after 11.30 a.m. on Saturdays, except by members of the staff. They must be returned by 10 a.m. on the next day on which the library is open. Members of the staff borrowing reference books before 4.30 p.m. must not take them out of the building until after that time.

2. Current numbers of periodicals may be borrowed under the same conditions as reference books.

3. All books must be returned to the library for the annual inspection ordinarily held in June. A fine of 2½p per book shall be imposed, up to the limit of the price of the book, for every day that it is retained beyond the time for its return for the inspection.

Regulations for the Clothworkers' Library

The library which is situated in the Department of Textile Industries is open on Monday to Friday, from 9 a.m. to 5 p.m., and on Saturday, from 9 a.m. to 12 noon.

It is closed on those days when the University is closed, except for Spring Bank Holiday.

It is subject to the regulations of the Brotherton library, with the exception of regulations 3(c) and (d), 4(c) and (d), and 8, and with the following additions:

1. Current parts of periodicals and reference books may not be removed from the library until 4.30 p.m. on Mondays to Fridays, and after 11.30 a.m. on Saturdays, except by members of staff. They must be returned by 10 a.m. on the next day on which the library is open. Members of staff borrowing reference books before 4.30 p.m. must not take them out of the building until after that time. [This rule does not apply to two sets of periodicals which are available for use in the library only. These are the *Journal of the Society of Dyers and Colourists* and the *Journal of the Textile Institute*. Of the latter there is a duplicate set, which may be borrowed in the normal way.]

2. All books must be returned to the library for the annual inspection. ordinarily held in June. A fine of 2½p per day is levied for each day during which a book is retained beyond any date, of which a week's notice will be given, of recall for the annual inspection.

Regulations for the Medical Library

The library which is situated in the School of Medicine consists of 52,754 volumes and pamphlets. The valuable collection of the Leeds and West Riding Medico-Chirurgical Society was presented to the University in 1926, and the Society continues to make an annual contribution towards the maintenance of the library. The historical section is rich in medical classics which belonged originally to the library of the old Infirmary and were presented with that library to the School of Medicine in 1865. A prominent feature of the library is the extensive collection of periodicals.

1. *Hours of opening*

Except in the long vacation, the library is open from 9 a.m. to 9 p.m. on Monday to Thursday, from 9 a.m. to 5 p.m. on Friday, and from 9 a.m. to 1 p.m. on Saturday. During the long vacation it is open from 9 a.m. to 5 p.m. (6 p.m. in July) on Monday to Friday and from 9 a.m. to 12.30 p.m. on Saturday.

It is normally closed on those days when the University is closed except for Spring Bank Holiday Monday and Tuesday.

2. *Admission*

Members of the academic staff of the University, members of the medical and dental staff of the United Leeds Hospitals, members of the Leeds and West Riding Medico-Chirurgical Society and students of the School of Medicine and School of Dentistry are entitled to the use of the library subject to the following conditions:

(a) Full members of the Medico-Chirurgical Society are subject to the same regulations as members of the academic staff; temporary members are subject to the same regulations as students.

(b) Students other than those attending the School of Medicine or the School of Dentistry may be allowed to use the library only on production of a written recommendation from the head of the appropriate department and with the permission of the Librarian.

(c) Other persons may be allowed by the Librarian to consult books on stating the subject of their studies and on producing a satisfactory recommendation. In special cases and on payment of one pound (£1) for twelve months they may also be allowed to borrow books at the discretion of the Librarian.

3. *Discipline*

(a) Silence shall be observed in the library.

(b) Smoking, and the consumption of food or drink, in any part of the library is forbidden.

(c) No bag, attaché case or parcel shall be brought into the library.

(d) No reader shall write in or otherwise mark books or periodicals belonging to the library. Any damage to or loss of books shall be made good to the satisfaction of the Librarian.

(e) The Librarian has the power to suspend the library privileges of any person who infringes the regulations, and shall report any such suspension to the library committee.

4. *Borrowing in general*

(a) No book shall be removed from the library unless the borrower shall have first filled in the form provided. The form will be returned to the borrower as a receipt for the book returned, and the borrower shall be responsible for the book so long as the form remains in the library uncancelled.

(b) All books may normally be borrowed with the exception of works of reference and books of special value and rarity; but the Librarian may withhold or restrict the circulation of any book in the library. He is further permitted to grant special facilities during a limited period to any person entitled to the use of the library.

(c) Periodicals, other than the current volume [for which see regulation 4(d)], may be borrowed for a period of one week only. There will ordinarily be no renewal. A fine of 5p will be incurred for every day or part of a day for which a periodical is overdue.

(d) Reference books, volumes on the recent accessions shelves and the current numbers of periodicals may be borrowed only after 5 p.m. on Monday to Thursday, 4 p.m. on Friday, and 12 noon on Saturday and must be returned before 10 a.m. on the next day on which the library is open. Unbound numbers of periodicals, other than the current number, may be borrowed, after having been received by the library for not less than one calendar month, for a period of up to three days. Failure to comply with these conditions will incur a fine of 5p for each day or portion of a day for which a book is retained.

(e) No person shall borrow a book from the library if he has in his possession any book which he has kept beyond the time allowed by the regulations, or if any fine or charge which he has incurred has not been paid.

(f) Theses of the University, with certain exceptions, may, with the consent of the Librarian, be consulted or borrowed.

(g) Books may not be taken abroad without special permission of the Librarian.

5. *Borrowing by staff and research students*

(a) Members of the academic staff shall be entitled to have at one time not more than twenty-five books borrowed from the library, unless this number is increased by the special permission of the Librarian. Books may be retained until a notice is received from

the Librarian that they are overdue, in which case they shall be returned to the library without delay. A book shall be regarded as overdue when it has been in the possession of the borrower for a fortnight and is required by another reader.

(b) Postgraduate research students and students in the final year of an honours school shall have the same privileges and be subject to the same regulations as members of the academic staff except that they may not have at one time more than ten books in their possession.

(c) Professors, readers and heads of departments may obtain library keys for personal use only, on application to the Librarian.

6. *Borrowing by students*

(a) Students shall have the right to have not more than three books borrowed from the library at one time except that this number may be increased by the Librarian on a recommendation from the head of a department.

(b) Every book shall be returned to the library on or before the fourteenth day following that on which it was taken out. If application is made personally or by post before the end of the period a book may be renewed for a further fortnight unless it is required by another reader.

(c) Failure to comply with the above condition shall entail a fine of 2½p in respect of each day or portion of a day by which the return of a book is overdue.

7. *Annual inspection*

All books must be returned for the annual inspection ordinarily held during the penultimate week of the second term. The issue of books will be suspended during the inspection. Failure to return books under this rule shall involve a fine of 2½p in respect of each day or portion of a day by which the return of a book is overdue.

8. *Inter-library loans*

Books borrowed from other libraries are subject in each case to the conditions imposed by the lending library. If books are required for home reading this fact must be stated in the application.

Regulations for the Dental Library

The dental library which is situated in the School of Dentistry is subject to the regulations for the medical library, with the following modifications:

1. *Hours of opening*

The library is open on Monday to Friday, from 9 a.m. to 5 p.m., and on Saturday, from 9 a.m. to 12.30 p.m.
It is closed on those days when the University is closed.

2. *Admission*

(d) The borrowing fee for external users of the library is 50p for twelve months.

4. *Borrowing in general*

(c) Does not apply to the dental library.

(d) Reference books may be borrowed only after 4 p.m. on Monday to Friday and after 12 noon on Saturday.

5. *Borrowing by staff and research students*

(a) Members of the academic staff shall be entitled to have at one time not more than twenty books borrowed from the library, unless this number is increased by the special permission of the Librarian.

(b) For 'postgraduate research students' read 'postgraduate students'.

(c) Does not apply to the dental library.

Regulations for the Law Library

The library which is situated in the Faculty of Law is open on Monday to Friday from 9 a.m. to 5 p.m., and on Saturday from 9 a.m. to 1 p.m. It is closed on Saturday during the long vacation. It also remains open for reference until 10 p.m. on Monday to Thursday inclusive, during the first and second terms, and on Monday to Friday during the third term until the end of written examinations.

It is closed on those days when the University is closed, except for Spring Bank Holiday.

It is subject to the regulations of the Brotherton library, with the exception of regulations 3(d), 4(c) and (d), and 8, and with the following additions:

1. Current parts of periodicals and certain copies (marked with a blue label) of books in exceptional demand may only be borrowed overnight or for the week-end or for any other period during which the library is closed. They will not be issued before 4.30 p.m. on Monday to Friday and before 12 noon on Saturday, and must be returned by 10 a.m. on the next day on which the library is open. Other books in much demand may be borrowed subject to return on the following day, or may be issued for such other limited periods as the Librarian may deem advisable. Failure to comply with the provisions of this rule will incur a fine of $2\frac{1}{2}$p in respect of each day or portion of a day by which the return of the book is overdue.

2. All books must be returned to the library for the annual inspection ordinarily held in June. Failure to return books under this rule shall involve a fine of $2\frac{1}{2}$p in respect of each day or portion of a day by which the return of a book is overdue.

The Institute of Education Library and Departmental Libraries

The regulations governing the use of the Institute of Education library will be found in the handbook of the Institute; and those relating to the departmental libraries are severally posted in the departments concerned. Information about these libraries can also be obtained in the Brotherton library.

The Holden Library

The Holden library is the property of the diocese of Ripon. It has been deposited in the Brotherton library and is available to the clergy of the dioceses of Ripon, Wakefield and Bradford and to members of the University. It is kept up to date by regular additions. Regulations governing its use may be obtained on application to the Librarian.

The University Coin Collection

Curator: Mr. B. R. Hartley

Hon. Consultant: Alderman Horace Hird, M.A., *Oxford*.

The University Coin Collection is kept in the Department of Latin. It consists of a large 18th-century collection of Greek, Roman and English coins, with some medals, and a series of special cabinets. The latter include Iron Age British coins, Saxon and Medieval coins from northern mints, English milled gold and a fine series of 17th-century tradesmen's tokens from Yorkshire and Derbyshire.

The regulations for use of the Collection are:

1. *General*

In the absence of the Curator, another member of the Committee on the Coin Collection may act in his place.

2. *Visiting numismatists*

Visiting numismatists may have access to the Collection each Monday to Friday from 10 a.m. to 12 noon and from 2 p.m. to 5 p.m. on the following conditions:

(a) Notice should be given to the Curator in writing, preferably at least a week before the proposed visit, stating the class of coins that the visitor wishes to see.

(b) The Curator, or in his absence a member of the Committee on the Coin Collection, will be present whenever coins are being studied.

(c) Coins may not be removed from the Curator's room.

3. *Members of the University Staff*

Members of staff may have access to the Collection provided that they notify the Curator in advance. At the discretion of the Curator, certain classes of coins may be borrowed during term for teaching purposes on the following conditions:

(a) The Curator should be notified at least a day in advance.

(b) The borrower must sign for any coins removed from the Collection in the register provided, and will be held responsible for their safety.

(c) Borrowed coins must be returned on the same day.

(d) Coins must be carried in the containers provided and must not be removed from University premises.

4. *Students of the University*

At the discretion of the Curator, students of the University may have access to the Collection on the same conditions as visiting numismatists.

5. *Display*

From time to time coins may be withdrawn from the Collection by the Curator for exhibition in the University.

6. *Special circumstances*

Applications for any use of the coins not covered by these regulations may be considered by the Curator, in consultation with the Chairman of the Committee and the Honorary Consultant.

University Museum of the History of Education

The Museum was established in 1950 and formally recognised by the University in 1958 It contains the first collection quite of its kind in the country. The Museum's first aim is to document and illustrate the history of education in England generally (but especially in Yorkshire and the North) from the earliest times to the present day. It seeks also to act as a centre of research and publication on its subject, and to help and advise persons interested in it, and working on it. It is a member of the Museums Association. It is open to junior and senior members of the University and its associated Colleges of Education, to serving teachers in the area, to members and officers of local education authorities and to members of the general public who are interested in educational matters.

The Museum owes many of the most interesting items in the collections to the goodwill and generosity of friends in and outside the University, who have deposited them as long-term loans or as outright gifts. The Curators will be pleased to accept further gifts and loans of pictorial, printed and written material suitable for inclusion in the collections. They seek such objects as needlework samplers, old completed school exercise books, whether or not of local provenance, ancient school textbooks on any of the curricular subjects, obsolete teaching aids and school apparatus. They welcome engravings, photographs and other illustrations of school buildings of historical interest, particularly where such buildings are likely to be demolished in the near future.

The *Journal of Educational Administration and History* is issued in association with the Museum and under the auspices of the University Department of Education. It seeks to publish work and to stimulate interest in the fields of the administration and history of education, and appears twice yearly in December and June. Inquiries should be addressed to the editors at the Museum.

The Museum is normally open from 10 a.m. to 12 noon Monday to Friday; those wishing to visit it are asked to make an appointment to do so through the Department of Education.

THE UNIVERSITY OF LEEDS

Fees
1971-72

FEES

Fees must be paid to the Bursar promptly upon demand. Cheques should be crossed and made payable to 'The University of Leeds'.

On presentation of a form signed by the Dean of the Faculty authorising attendance upon courses of study, and upon payment of the requisite fees, the Bursar will issue a registration certificate entitling the student to attend such courses. This certificate must be presented by the student on request to the professors or lecturers whose classes or lectures he is authorised to attend.

Students who, for any reason, cease to attend the University during a session have no claim to a refund of fees.

The University reserves the right to revise fees at any time without notice.

INCLUSIVE ANNUAL ACADEMIC FEE

On payment of the fee a student is entitled to attend the prescribed course of lectures, to take the appropriate examinations and, if successful, to be awarded the appropriate degree or diploma. Details of the inclusive academic fees are shown in table 1 on pages B4-10.

Unless otherwise stated, payment of the inclusive academic fee entitles a student to membership of the University Union.

There are three scales of fees, and the appropriate scale can be found by reference to the detailed regulations on page B3.

Students paying a fee of £74.50 or more under Scale I, £244.50 under Scale II, or £124.50 under Scale III will be admitted without further charge to any additional classes at which their attendance has been sanctioned by the Vice-Chancellor and the head of the department concerned.

The fee must be paid sessionally in advance.

Charges additional to the fee will be made in respect of late entries for examinations, re-examinations and (for certain courses) use of equipment. Details of these additional charges are given in the appropriate tables.

All registered students of the University are entitled to use the libraries without payment.

OTHER FEES AND CHARGES

Fees for separate lectures and laboratory work

Under certain circumstances fees will be calculated according to the scale for separate lectures and laboratory work set out in table 2 on page B11.

Fees for research

Persons admitted to carry out research in the University, other than as part of a course leading to a higher degree, will be required to register as research students and to pay the fees set out in table 3 on page B12.

Recapitulatory and other courses in medical, surgical and dental subjects

Details of the fees for these courses are shown in table 4 on page B13.

Re-examination fee

Details of re-examination fees are shown in table 5 on page B14.

Deposits

Students in the Faculties of Science, Applied Science and Medicine may be required to make certain deposits for use of expendable equipment or against possible damage to apparatus or equipment. Deposits are returnable after deduction of costs of damage or losses or use of expendable equipment. Details of the deposits charged are shown in table 6 on page B15.

Miscellaneous charges

Miscellaneous charges may be incurred in respect of use of equipment, work in the laboratories during vacation, field work and parts of courses spent abroad. Additional charges are payable in respect of late entry for examinations. Details of these charges are given in table 7 on page B16.

FEES FOR RESIDENCE

There are two types of accommodation available to students, scheduled and unscheduled, and a student must at the start of a session opt to enter one type or the other. Information on scheduled and unscheduled accommodation is given in the Lodgings Leaflet and the pamphlet *Student Residence*. Fees for residence are set out in table 8 on page B17 and are payable in full at the start of each term.

STAFF FEES

Tuition fees will not be charged to full-time members of the staff accepted as candidates for higher degrees, except in the case of those appointments financed by outside research organisations and similar bodies.

All members of staff to whom the above concession is granted will be required to pay a fee to cover the cost of examination and graduation fees as follows:

Ph.D.	£25
Mastership	£15

ASSESSMENT OF FEES UNDER SCALES I, II OR III

Students who hold an award from a Local Education Authority in the United Kingdom or who satisfy the requirements for residence set out below will be charged fees under Scale I.

Students who do not hold an award from a Local Education Authority in the United Kingdom and who do not satisfy the requirements for residence will be charged fees under Scale II.

Students who do not hold an award from a Local Education Authority in the United Kingdom and who do not satisfy the requirements for residence but who were following their course on 30 April 1967 will be charged fees under Scale III. The concession to full-time students who changed their course or university after 30 April 1967 of paying fees under Scale III has now come to an end and such students will be charged fees under Scale II from session 1971-72.

Residence Requirements

Students who do not hold an award from a Local Education Authority must satisfy one of the following requirements to be eligible for fees under Scale I:

(a) The student has been ordinarily resident in the United Kingdom for at least three years immediately before the beginning of the academic year commencing 1 September in which the course is due to begin.

(b) The parents of the student or one of them have been ordinarily resident in the United Kingdom for at least three years immediately before the beginning of the academic year commencing 1 September in which the course is due to begin.

(c) The student would have been ordinarily resident in the United Kingdom for at least three years immediately before the beginning of the academic year commencing 1 September in which the course was due to begin, had he or his parents (or one of his parents) not been temporarily resident outside the United Kingdom.

(d) The student is under 21 and both the student and his parents or one of them have been ordinarily resident in the United Kingdom for at least one year immediately before the beginning of the academic year commencing 1 September in which the course is due to begin.

(e) The student has been:
(i) Ordinarily resident or on a full-time or sandwich course of higher education for one year immediately before the beginning of the academic year commencing 1 September in which the course is due to begin

AND

(ii) Married for at least one year immediately before the beginning of the academic year commencing 1 September in which the course is due to begin to a person who has been ordinarily resident in the United Kingdom for at least three years immediately before the beginning of the academic year commencing 1 September in which the course is due to begin.

The term "ordinarily resident" includes periods spent at school following "O" and "A" level courses and Ordinary National Diploma courses but excludes university and Higher National Diploma courses.

TABLE 1: INCLUSIVE ANNUAL ACADEMIC FEES

The Faculty of Arts

		Scale of fees (see page B3) I	II	III
UNDERGRADUATE COURSES		£ p	£ p	£ p
First degrees				
Bachelor of Arts		74.50	244.50	124.50
Bachelor of Arts in fine art, textile design, textile management or economics and textile industries.		89.50	259.50	139.50
Diplomas and Certificates				
Diploma in Hebrew one-year course		52.50	222.50	102.50
two-year course	*	20.00	75.00	36.50
Certificate in the teaching of Hebrew } *Certificate in Arabic* }		Fees calculated from Table 2.		
POSTGRADUATE COURSES				
† Higher degrees				
Master of Arts, Master of Philosophy, Doctor of Philosophy				
Full-time		74.50	244.50	124.50
Part-time				
Graduates of the University				
First year		34.50	89.50	54.50
Second and subsequent years		24.50	54.50	34.50
Other graduates				
First and subsequent years		34.50	89.50	54.50
Master of Philosophy				
Without supervision				
Leeds graduates only (single payment)	*	20.00	20.00	20.00
Doctor of Philosophy				
Candidates studying at other institutions (single payment)	*	40.00	40.00	40.00
Master of Education				
Full-time		74.50	244.50	124.50
Part-time				
Graduates of the University		42.50	119.50	74.50
Other graduates		47.50	139.50	79.50
Bachelor of Music		52.50	222.50	102.50

• The fee for this course does not entitle the student to membership of the University Union.

† Postgraduate students who have completed their minimum period of study but are still receiving some supervision are required to register each year and to pay a fee of £5 per year or part of a year subject to the discretion of the head of the department concerned.

	Scale of fees (see page B3)		
	I	II	III
	£ p	£ p	£ p
Bachelor of Divinity			
Full-time (graduates of the University only)	52.50	222.50	102.50
Part-time			
Graduates of the University			
First year	45.50	134.50	71.50
Second year	33.50	89.50	49.50
Other graduates			
First and subsequent years	45.50	134.50	71.50
Doctor of Letters	* 50.00	50.00	50.00
Doctor of Divinity	* 50.00	50.00	50.00
Doctor of Music	* 50.00	50.00	50.00
Diplomas and Certificates			
Postgraduate Diplomas			
Semitic studies	74.50	244.50	124.50
English studies	107.50	264.50	157.50
English as a second language	107.50	264.50	157.50
Folk life studies	107.50	264.50	157.50
Celtic studies	107.50	264.50	157.50
Icelandic studies	107.50	264.50	157.50
Theology	56.50	226.50	106.50
Mongolian studies	107.50	264.50	157.50
Textile design	89.50	259.50	139.50
Diplomas			
Primary education	89.50	259.50	139.50
Secondary education	89.50	259.50	139.50
Education of backward children	89.50	259.50	139.50
Curricular studies	89.50	259.50	139.50
†English studies	50.00	125.00	100.00
†Further education	53.00	128.00	103.00
†Art education	53.00	128.00	103.00
†Science education	55.00	130.00	105.00
†Religious education	58.50	133.50	108.50
†Physical education	57.50	132.50	107.50
Graduate Certificates			
Education	74.50	244.50	124.50

* The fee for this course does not entitle the student to membership of the University Union.

† There is an additional fee of £200 payable to the College of Education concerned.

THE FACULTY OF ECONOMIC AND SOCIAL STUDIES

	Scale of fees (see page B3)		
UNDERGRADUATE COURSES	I	II	III
	£ p	£ p	£ p
First degree			
Bachelor of Arts	74.50	244.50	124.50
† POSTGRADUATE COURSES			
Higher degrees			
Master of Arts, Master of Philosophy, Doctor of Philosophy			
Full-time	74.50	244.50	124.50
Part-time			
Graduates of the University			
First year	34.50	89.50	54.50
Second and subsequent years	24.50	54.50	34.50
Other graduates			
First and subsequent years	34.50	89.50	54.50
Master of Philosophy without supervision:			
Leeds graduates only (single payment) *	20.00	20.00	20.00
Doctor of Philosophy: Candidates studying at other institutions (single payment) *	40.00	40.00	40.00
Diplomas			
Development administration	157.50	264.50	207.50
Health services' administration	109.00	264.50	159.00

* The fee for this course does not entitle the student to membership of the University Union.

† Postgraduate students who have completed their minimum period of study but are still receiving some supervision are required to register each year and to pay a fee of £5 per year or part of a year subject to the discretion of the head of the department concerned.

THE FACULTY OF LAW

	Scale of fees (see page B3)		
	I	II	III
	£ p	£ p	£ p
UNDERGRADUATE COURSES			
First degree			
Bachelor of Laws	74.50	244.50	124.50
† POSTGRADUATE COURSES			
Higher degrees			
Master of Laws, Doctor of Philosophy			
Full-time	74.50	244.50	124.50
Part-time			
Leeds graduates			
Master of Laws			
First year	52.50	159.50	84.50
Second and subsequent years	24.50	54.50	34.50
Doctor of Philosophy			
First year	34.50	89.50	54.50
Second and subsequent years	24.50	54.50	34.50
Other graduates			
Master of Laws			
First year	52.50	159.50	84.50
Second and subsequent years	29.50	69.50	44.50
Doctor of Philosophy			
First and subsequent years	34.50	89.50	54.50
Master of Laws without supervision			
Leeds graduates only (single payment)	* 20.00	20.00	20.00
Doctor of Philosophy			
Candidates studying at other institutions (single payment)	* 40.00	40.00	40.00
Doctor of Laws	* 50.00	50.00	50.00

* The fee for this course does not entitle the student to membership of the University Union.

† Postgraduate students who have completed their minimum period of study but are still receiving some supervision are required to register each year and to pay a fee of £5 per year or part of a year subject to the discretion of the head of the department concerned.

THE FACULTY OF SCIENCE

		Scale of fees (see page B3) I	II	III
		£ p	£ p	£ p
UNDERGRADUATE COURSES				
First degrees				
Bachelor of Science				
With laboratory facilities		89.50	259.50	139.50
Without laboratory facilities		74.50	244.50	124.50
† POSTGRADUATE COURSES				
Higher degrees				
Master of Science, Master of Philosophy, Doctor of Philosophy				
Full-time				
With laboratory facilities		89.50	259.50	139.50
Without laboratory facilities		74.50	244.50	124.50
Part-time				
With laboratory facilities				
Leeds graduates				
First year		42.50	119.50	74.50
Second and subsequent years		24.50	54.50	34.50
Other graduates				
First and subsequent years		42.50	119.50	74.50
Without laboratory facilities				
Leeds graduates				
First year		34.50	89.50	54.50
Second and subsequent years		24.50	54.50	34.50
Other graduates				
First and subsequent years		34.50	89.50	54.50
Master of Philosophy				
Without supervision				
Leeds graduates only (single payment)	*	20.00	20.00	20.00
Doctor of Philosophy				
Candidates studying at other institutions (single payment)	*	40.00	40.00	40.00
Doctor of Science	*	50.00	50.00	50.00
Diploma in history and philosophy of science				
Full-time		74.50	244.50	124.50
Part-time		47.50	140.50	79.50

* The fee for this course does not entitle the student to membership of the University Union.

† Postgraduate students who have completed their minimum period of study but are still receiving some supervision are required to register each year and to pay a fee of £5 per year or part of a year subject to the discretion of the head of the department concerned.

THE FACULTY OF APPLIED SCIENCE

		Scale of fees (see page B3) I	II	III
		£ p	£ p	£ p
UNDERGRADUATE COURSES				
First degrees				
Bachelor of Science		89.50	259.50	139.50
Diplomas		89.50	259.50	139.50
† POSTGRADUATE COURSES				
Higher degrees				
Master of Science, Master of Philosophy, Doctor of Philosophy				
Full-time				
With laboratory facilities		89.50	259.50	139.50
Without laboratory facilities		74.50	244.50	124.50
Part-time				
With laboratory facilities				
Leeds graduates				
First year		42.50	119.50	74.50
Second and subsequent years		24.50	54.50	34.50
Other graduates				
First and subsequent years		42.50	119.50	74.50
Without laboratory facilities				
Leeds graduates				
First year		34.50	89.50	54.50
Second and subsequent years		24.50	54.50	34.50
Other graduates				
First and subsequent years		34.50	89.50	54.50
Master of Science				
Joint course with Sheffield University in microwave and communications engineering		89.50	250.00	139.50
Master of Philosophy				
Without supervision				
Leeds graduates only (single payment)	*	20.00	20.00	20.00
Doctor of Philosophy				
Candidates studying at other institutions (single payment)	*	40.00	40.00	40.00
Doctor of Science	*	50.00	50.00	50.00
Diplomas		89.50	259.50	139.50

*The fee for this course does not entitle the student to membership of the University Union.

† Postgraduate students who have completed their minimum period of study but are still receiving some supervision are required to register each year and to pay a fee of £5 per year or part of a year subject to the discretion of the head of the department concerned.

THE FACULTY OF MEDICINE

		Scale of fees (see page B3) I £ p	II £ p	III £ p
UNDERGRADUATE COURSES				
First degrees				
Bachelor of Medicine and Bachelor of Surgery	*	89.50	259.50	139.50
Bachelor of Dental Surgery	†	89.50	259.50	139.50
Certificate				
Certificate in Psychiatric Social Work		82.50	252.50	132.50
‡ POSTGRADUATE COURSES				
Higher degrees				
M.Sc. Clinical Psychology				
First year		89.50	259.50	139.50
Second year		34.50	89.50	54.50
Master of Surgery	§	50.00	50.00	50.00
Master of Dental Science				
Full-time		89.50	259.50	139.50
Part-time				
Leeds graduates				
Firstyear		42.50	119.50	74.50
Second and subsequent years		24.50	54.50	34.50
Other graduates				
First and subsequent years		42.50	119.50	74.50
Doctor of Medicine	§	50.00	50.00	50.00
Doctor of Dental Science	§	50.00	50.00	50.00
Diplomas and Certificates				
Diploma in Public Health		114.50	264.50	164.50
Diploma in Dental Public Health		114.50	264.50	164.50
Diploma in Psychological Medicine				
Part I	§	40.00	160.00	70.00
Part II	§	40.00	160.00	70.00
Health visitors' training course certificate		204.00	264.50	254.00

* RESIDENCE. For a part of the medical course, students must be in residence in Croft Hall for which a fee of £73 for a single room or £67 for a shared room is charged. £18 per year for the first four years of a full course or £25 per year for the three-year course may be paid in respect of this fee in addition to the annual inclusive academic fee. On coming into residence in Croft Hall the amount thus paid on account will be adjusted to the amount due either by a further payment by the student (which shall be immediately due and payable) or by a refund of the excess paid by the student.

† When the sixth session of the dental degree course is shorter than three terms the fee payable will be £30 a term (Scale I), £87 (Scale II), or £47 (Scale III).

‡ Postgraduate students who have completed their minimum period of study but are still receiving some supervision are required to register each year and to pay a fee of £5 per year or part of a year subject to the discretion of the head of the department concerned.

§ The fee for this course does not entitle the student to membership of the University Union.

TABLE 2: FEES FOR SEPARATE LECTURES, LABORATORY OR PRACTICAL WORK

	£ p
The first lecture hour per week per subject:	
One term	4.00
Two terms	6.00
Three terms	8.00
Each subsequent lecture hour per week:	
One term	2.00
Two terms	3.00
Three terms	4.00
Each laboratory hour per week:	
One term	2.00
Two terms	3.00
Three terms	4.00

New students assessed at Scale II under the regulations on page B3 will be charged at three times the above rates up to a maximum of £81.50 per term.

Students reading for the degree of Doctor of Philosophy who wish to attend lectures or carry out laboratory work not expressly recommended by the heads of their departments will be required to pay fees calculated at the rate of two-thirds of the above scale.

Approved laboratory work in vacations, per month:	
1 day per week	2.50
2 days per week	5.00
3 days per week	7.50
4 or more days per week	10.00

TABLE 3: FEES FOR RESEARCH (not leading to a higher degree)

		Scale of fees (see page B3) I	II	III
		£ p	£ p	£ p
One month	*	10.00	25.00	15.00
One term	*	30.00	85.00	45.00
Three terms	*	72.00	242.00	112.00
Persons engaged on private industrial research per month†	*	12.00	12.00	12.00

Fees for research include University lectures or laboratory work recommended by the head of the student's department. For other lectures or laboratory work, fees calculated at the rate of two-thirds of the scale in table 2 will be charged.

* The fee for this course does not entitle the student to membership of the University Union.

† Plus additional charge for any special expenditure by the University.

TABLE 4: FEES FOR RECAPITULATORY AND OTHER COURSES IN MEDICAL, SURGICAL AND DENTAL SUBJECTS

	£
RECAPITULATORY COURSES	
For the degrees of Bachelor of Medicine and Bachelor of Surgery	
Anatomy and physiology	
Three months	10
Six months	20
Anatomy, three months	6
Physiology, three months	6
Pharmacology, three months	4
Pathology and bacteriology, three months	4
Other subjects, three months	4
Clinical fee per six months' extension period (or less)	25
OTHER COURSES	
Temporary hospital practice at the General Infirmary at Leeds	
Two months	6
Three months	9
Four months	12
Six months	18
Use of dissecting room (external students	
One month	4
Three months	10
Dentistry	
Additional dental hospital practice	
Three months	18
Six months	32
Postgraduate work, per half day	2
Additional pupilage in dental mechanics	
Two months	10
Three months	17
Nine months	45

TABLE 5: RE-EXAMINATION FEES

The maximum re-examination fee payable on any one occasion is £8 except in the case of the fees marked with an asterisk:

	£ p	
Bachelor of Arts or Laws		
First- and second-year courses	2.00	per subject
Final—whole examination or part thereof	4.00	,, ,,
Bachelor of Science		
First- and second-year courses	2.00	per subject
Final or principal courses	4.00	,, ,,
Bachelor of Science in mathematics or geography		
First- and second-year courses	2.00	per subject
Final—whole examination or part thereof	4.00	,, ,,
Bachelor of Medicine and Bachelor of Surgery		
First examination	2.00	per subject
Second examination	3.00	,, ,,
Third examination	6.00	single fee
Fourth examination	3.00	,, ,,
Final examination	4.00	per subject
Bachelor of Dental Surgery		
First examination	2.00	per subject
Second and third examination	3.00	,, ,,
Final examination	8.00	single fee
Diplomas in subjects within the Faculty of Arts	1.00	per subject
Postgraduate diplomas in subjects within the Faculty of Applied Science	4.00	
Non-graduate diplomas in subjects within the Faculty of Applied Science	1.00	per subject
Diploma in psychological medicine	6.30	(first part)
	12.60*	(second part)
Certificate in psychiatric social work	5.00	
Diploma in public health	12.00*	
Health visitors' training course	8.00	per part
Graduate certificate in education	2.00	,, ,,
Certificates in subjects within the Faculty of Arts	1.00	,, subject
Higher degrees taken by advanced course and examination	8.00	single fee

TABLE 6: DEPOSITS

	£ p
1. By students in the Faculty of Science:	
(a) Reading for the degree of Bachelor of Science in pharmacology, per session	2.50
(b) Reading for the degree of Bachelor of Science in biochemistry	4.00
2. By students in the Faculties of Science, Applied Science and Medicine:	
(a) Working in the laboratories of the School of Chemistry, for apparatus, per session	6.00
(b) Working in the laboratories of the Department of Agricultural Sciences, for apparatus, per session	2.50
(c) Working in the laboratories of the Procter Department of Food and Leather Science, for apparatus:	
First year	3.00
Third year	5.00
3. By students in the Faculty of Medicine:	
(a) Reading for an initial medical qualification, for materials and apparatus in the Department of Physiology	0.50
(b) Reading for an initial medical qualification in the Department of Pathology, for slides	1.50
(c) Reading for an initial medical qualification in the Department of Biochemistry	6.50

Deposits under paragraph 1 above are payable at the beginning of each session of the course; those under paragraph 2 at the beginning of the session(s) during which laboratory work will be carried out; those under paragraph 3 at the beginning of the session during which work in the departments specified will be carried out.

The deposits are payable with the inclusive academic fee at the beginning of the appropriate session(s).

Except where stated the deposits are repaid at the end of the session after deduction of an appropriate charge for damage to apparatus or equipment or use of expendable equipment. If breakages exceed the amount initially deposited a further deposit will be required.

TABLE 7: MISCELLANEOUS CHARGES

	£ p
1. By students reading for the degree of Bachelor of Laws, for hire of books, per session	3·00
2. For locker rent, per session:	0.25
(a) In the Faculty of Medicine a charge of £2 is payable at the beginning of the first or second year of the course. The balance after deducting the rent of 25p per session is refunded at the end of the course, subject to the key being returned within one week and the locker being left in good condition.	
(b) In faculties other than the Faculty of Medicine, no locker deposit is required but students must provide their own padlock and key for their locker.	
(c) On the lower ground floor of University House, a deposit of 50p, in addition to the rent of 25p, is required at the beginning of each session. The deposit is refunded at the end of the session subject to the key being returned within one week and the locker being left in good condition.	
3. By students in certain departments in the Faculties of Science and Applied Science in respect of travelling and residential expenses in connection with field work and by students in certain departments of modern languages for parts of courses spent abroad.	Details from appropriate depart-ments.
4. For examination entries after the last dates for receipt shown in the University *Calendar*	0.50
For examination entries submitted more than six weeks after the closing dates (accepted only in special circumstances).	1.00

TABLE 8: FEES FOR RESIDENCE

	1st term £	*Terminal instalments* *2nd term* £	*3rd term* £	*Total* £
HALLS FOR MEN				
Devonshire, Lyddon and Charles Morris Halls, inclusive of lunches	89	87	87	263
Sadler and Bodington Halls, exclusive of lunches Monday to Friday	79	79	79	237
HALLS FOR WOMEN				
Ellerslie and Charles Morris Halls, inclusive of lunches				
Single study-bedroom	89	87	87	263
Shared study-bedroom	87	85	85	257
Oxley, Weetwood and Tetley Halls, exclusive of lunches Monday to Friday				
Single study-bedroom	79	79	79	237
Shared study-bedroom	77	77	77	231

A deposit of £1 (£2.50 for Ellerslie and Tetley Halls) will be payable at the beginning of each session by students in women's halls with the exception of Charles Morris Hall to cover cost of possible breakages, etc., the balance not called upon being refunded at the end of the session. This deposit will be payable with the hall of residence fee.

Where permission is granted to a student who has already paid a full session's fee to be in residence for a further period different from, or additional to the normal terms, the charge will be from £5.50 a week depending on the number of meals taken.

For residence in *Croft Hall*, see p. B10.

HENRY PRICE BUILDING

Single room	£141 per session
Double or duplex room	£120 per session
Married quarters	£216 per session

The fees are payable in three equal instalments.

UNIVERSITY FLATS

A number of flats are available in converted property owned by the University. Charges vary according to the accommodation offered within the range:

Single rooms	£105 - £147 per session
Double rooms	£102 - £129 per session

REGISTERED LODGINGS

Amount payable by termly instalments in advance. Charges by arrangement with landlady, usually within the following range (exclusive of lunches Monday to Friday).

1st term £	*2nd term* £	*3rd term* £	*Total* £
55 to 65	55 to 60	55 to 60	165 to 185

THE UNIVERSITY OF LEEDS

Faculty of Arts
1971-72

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ORDINANCE II. DEGREES IN ARTS

1. The degrees in Arts shall be:

Bachelor of Arts (B.A.)
Bachelor of Divinity (B.D.)
Bachelor of Music (B.Mus.)
Master of Arts (M.A.)
Master of Education (M.Ed.)
Master of Philosophy (M.Phil.)
Doctor of Philosophy (Ph.D.)
Doctor of Letters (Litt.D.)
Doctor of Divinity (D.D.)
Doctor of Music (D.Mus.)

THE DEGREE OF BACHELOR OF ARTS

2. The degree of Bachelor of Arts shall be conferred upon all candidates who have fulfilled the requirements as to study and examinations; the degree shall be awarded with honours to those candidates who attain a sufficiently high standard in the examination.

3. Candidates may proceed to the degree of Bachelor of Arts by following an approved scheme of study* for not less than three academic years, and by passing the prescribed examinations.

4. All candidates for the degree of Bachelor of Arts shall be required to have passed the examination for matriculation or to have obtained a certificate of exemption therefrom before entering upon an approved scheme of study.

5. A candidate may transfer from any one scheme of study leading to the degree of Bachelor of Arts to another scheme, subject to the approval of the Board of the Faculties.†

6. Except with the permission of the Board of the Faculties, candidates for the degree of Bachelor of Arts must complete the requirements of the first year of the scheme of study before proceeding to further study.

7. Except with the special permission of the Senate:

(a) Every candidate for the degree of Bachelor of Arts shall be required to present himself for the final examination at the end of the third or fourth academic year from the time when he has entered upon one of the schemes of study approved for the degree.

(b) A candidate failing in the final examination for the degree of Bachelor of Arts will not be allowed to present himself for re-examination on more than one occasion.

(c) A candidate who does not pass the final examination at his first attempt will not be eligible for the award of the degree with honours.

(d) No candidate will be allowed to present himself for re-examination for the degree of Bachelor of Arts later than the end of the fifth academic year after his entry upon the approved scheme of study.

* Approved schemes of study are listed on pages C20-C21.
† Such transfer may necessitate the extension of the candidate's scheme of study by one year.

8. (a) Candidates who have passed the final examination for the degree of Bachelor of Arts may be awarded:
(i) the degree of Bachelor of Arts with first class honours,
or (ii) the degree of Bachelor of Arts with second class honours, first division,
or (iii) the degree of Bachelor of Arts with second class honours, second division,
or (iv) the degree of Bachelor of Arts with third class honours,
or (v) the degree of Bachelor of Arts.
(b) The names of successful candidates in each group shall be arranged in alphabetical order.
(c) The names of candidates who have passed the examination for the degree of Bachelor of Arts shall be published in such a form as to identify the scheme of study in which each has passed.

9. A candidate who has been awarded the degree of Bachelor of Arts on successful completion of one scheme of study may not present himself a second time for the examination on that same scheme of study.

10. A candidate who has passed the final examination for the degree of Bachelor of Arts in one scheme of study may, subject to the approval of the Senate given on the recommendation of the Board of the Faculties, present himself for the examination for the degree of Bachelor of Arts in any other scheme of study, after the expiration of not less than one further year, if during this period he has attended approved courses of study.

THE DEGREE OF BACHELOR OF DIVINITY
(A postgraduate qualification)

The degree of Bachelor of Divinity is governed by Ordinance VIII, articles 2 to 4, and relevant regulations which are set out on pages C10 and C15-C16.

THE DEGREE OF BACHELOR OF MUSIC
(A postgraduate qualification)

11. The degree of Bachelor of Music shall be conferred upon candidates who have attended satisfactorily the required courses and have passed the prescribed examinations.

12. Graduates of the University of Leeds who, having attained honours in music, taken as a single subject or as a named part of a two- or three-subject scheme, are deemed eligible by the head of the Department of Music, may become candidates for the degree of Bachelor of Music.

13. Except with the special permission of the Senate every candidate for the degree of Bachelor of Music shall be required to present himself for examination at the end of the third term from the time when he has entered upon the course of instruction approved by the University for such a degree.

14. Candidates shall not be permitted to present themselves for examination unless they have regularly attended the prescribed course of study and have performed the work of the class to the satisfaction of the professor or lecturer.

15. The names of the candidates who have passed the examinations for the degree of Bachelor of Music shall be published, the list being arranged in alphabetical order, and distinction may be awarded for work of exceptional merit at the discretion of the examiners.

16. A candidate who has failed in the examination for the degree of Bachelor of Music may be permitted, on the special recommendation of the examiners, to present himself for re-examination on one occasion only.
[See also the regulations on page C6.]

THE DEGREE OF MASTER OF ARTS

17. The degree of Master of Arts may be conferred, on payment of the proper fee, on satisfactory completion of an approved full-time scheme of advanced study in the University and on the passing of the prescribed examinations:

(a) upon graduates of the University of Leeds or of any approved university

(b) in approved cases upon persons who are not graduates

provided that all such persons have qualifications which are acceptable to the Senate as an appropriate preparation for the particular advanced study scheme envisaged.

18. Schemes of advanced study leading to the degree of Master of Arts may vary in length from subject to subject but in no case shall the period of full-time study be less than one academic year.

19. Candidates who have graduated with first or second-class honours, or who hold qualifications which are deemed by the Senate to be equivalent to first or second-class honours degrees, or who have gained a postgraduate diploma at a sufficiently high standard in a subject regarded as an adequate preparation will be eligible to proceed to the degree after the minimum period of full-time study of one academic year.

20. Candidates who hold a degree or a qualification which is deemed equivalent to a degree, but who are unable to satisfy the requirements of article 19 above may be accepted for the degree on the recommendation of the appropriate Board of Faculty and will normally be required to undertake an approved full-time scheme of advanced study for such period in excess of one academic year as may be determined in each case.

[See also the regulations on page C6.]

THE DEGREE OF MASTER OF EDUCATION

The degree of Master of Education is governed by Ordinance VIII, articles 5 to 9 and relevant regulations which are set out on pages C10-C11 and C16-C17.

THE DEGREE OF MASTER OF PHILOSOPHY

The degree of Master of Philosophy is governed by Ordinance VIII, articles 10 to 20, and relevant regulations which are set out on pages C11-C13 and C17-C18.

THE DEGREE OF DOCTOR OF PHILOSOPHY

The degree of Doctor of Philosophy is governed by Ordinance VIII, articles 21 to 28, and relevant regulations which are set out on pages C13-C14 and C18-C19.

THE DEGREE OF DOCTOR OF LETTERS

21. The degree of Doctor of Letters shall be conferred by the University upon graduates of the University who shall be deemed by the Senate, after considering a report from the Board of the Faculties of Arts, Economic and Social Studies and Law, to have distinguished themselves by special research or learning.

22. A graduate of the University may make application for the degree of Doctor of Letters in the sixth or any subsequent year from the date of graduation.

23. If the application be approved by the Senate, the degree may be conferred at the first convenient date thereafter.

[See also the regulations on page C7.]

THE DEGREE OF DOCTOR OF DIVINITY

24. The degree of Doctor of Divinity shall be conferred by the University upon graduates of the University who shall be deemed by the Senate, after considering a report from the Board of the Faculties of Arts, Economic and Social Studies and Law, to have distinguished themselves by special research or learning.

25. A graduate of the University may make application for the degree of Doctor of Divinity in the sixth or any subsequent year from the date of graduation.

26. If the application be approved by the Senate the degree may be conferred at the first convenient date thereafter.
[See also the regulations on page C7.]

THE DEGREE OF DOCTOR OF MUSIC

27. The degree of Doctor of Music shall be conferred by the University upon graduates of the University who shall be deemed by the Senate, after considering a report from the Board of the Faculties of Arts, Economic and Social Studies and Law, to have distinguished themselves by their contribution to music in composition or scholarship. In support of their application for the degree candidates must submit either two or three compositions diverse in character or a fully documented thesis embodying a substantial piece of research or contribution to scholarship, together with one composition.

28. A graduate of the University may make application for the degree of Doctor of Music in the sixth or any subsequent year from the date of graduation.
[See also the regulations on pages C7-C8.]

DIPLOMAS AND CERTIFICATES

29. Diplomas and certificates shall be granted by the University, in such subjects as the Council may from time to time determine, to students who pursue the courses of study and pass the examinations prescribed.

30. The Council is empowered to make from time to time regulations under which such diplomas and certificates shall be awarded.

31. The award of diplomas and certificates under the provisions of this Ordinance is delegated to the Senate.

[See also the regulations on page C9.]

Regulations for Degrees

THE DEGREE OF BACHELOR OF ARTS

1. All intending candidates for the degree of Bachelor of Arts must comply with any special requirements laid down in relation to the courses they propose to follow; for some of these a previous knowledge of certain subjects is required.

2. Candidates for the degree of Bachelor of Arts must present themselves for any departmental examinations arranged in connection with the courses prescribed for their scheme of study.

3. Candidates will not be permitted to present themselves for examination in any subject unless they have regularly attended the prescribed course of study in that subject and performed the work of the class to the satisfaction of the head of the department providing the course of study.

4. Candidates for the degree of Bachelor of Arts will be admitted to the first year of a prescribed scheme of study by the Sub-Dean of the Faculties of Arts, Economic and Social Studies and Law, in consultation with the heads of departments concerned, or by heads of departments, as appropriate. (See prescribed schemes of study on pages C22-122.)

5. A candidate's choice between the various options offered within the prescribed scheme of study to which he has been admitted will be subject to the approval of either the Sub-Dean of the Faculties of Arts, Economic and Social Studies and Law, in consultation with the heads of the departments concerned, or of the heads of departments, as appropriate.

6. Degree examinations will ordinarily be held in June of each year. Supplementary examinations on first-year courses will also be held in September, but, except with the special permission of the Senate, a candidate will not be admitted to the September examination on any such course unless:

(a) he has presented himself for the corresponding examination in the preceding June

(b) he has attained an appropriate standard in the June examinations as a whole.

The last date for entry for the June examinations will be a date towards the end of January each year as prescribed by the Registrar.*

7. Where a candidate, who has failed to complete the requirements for the first year of his scheme of study, is given permission to proceed to the second year under the provisions of article 6 of Ordinance II (see page C1), he must re-present himself for and pass the first-year examinations in any subject:

(a) in June, if it is a subject in which he has failed in the previous session, or

(b) in June or September, if the subject is not one of those in which he was examined in the previous session, provided that a candidate will not be allowed to take the September examination unless he has attained an appropriate standard in the June examination in that subject.

8. Except with the special permission of the Senate, no candidate will be allowed to present himself for the final examination for the degree unless he has passed the required examinations on first-year courses not later than the preceding September.

THE DEGREE OF BACHELOR OF DIVINITY
(A postgraduate qualification)

The degree of Bachelor of Divinity is governed by Ordinance VIII, articles 2 to 4, and relevant regulations which are set out on pages C10 and C15-C16.

• **See also the general regulations for examinations in the prospectus *General Regulations*, page A9.**

THE DEGREE OF BACHELOR OF MUSIC
(A postgraduate qualification)

9. Candidates for the degree of Bachelor of Music must pursue courses of study and present themselves for examination.

10. The examination will consist of the following six written papers:

Composition	1 paper
Counterpoint	1 paper
Fugue	1 paper
Orchestration	1 paper
History and criticism	1 paper
Essay	1 paper

together with an oral examination and practical tests. In addition an original musical exercise must be submitted.

11. This examination will ordinarily be held in June.

12. At the beginning of the year, each candidate for the degree of Bachelor of Music must submit to the head of the department proposals for the original musical exercise which he is required to offer. This exercise, which must be the unaided work of the candidate and which should take at least twenty minutes to perform, must consist of one of the following:

(a) a work for chamber combination of not fewer than four instruments
(b) a work for orchestra
(c) a work for orchestra and voices.

The manuscript must be submitted not later than 1 May in the year in which the candidate is taking the examination; if the candidate is successful the exercise will be retained by the University.

THE DEGREE OF MASTER OF ARTS

13. Candidates accepted for the degree of Master of Arts shall be required:

(a) to be registered as full-time students of the University
(b) to attend to the satisfaction of their head of department such course or courses of instruction in the University as the Senate, on the recommendation of the appropriate Board of Faculty, may require
(c) if accepted under the provisions of article 20, to give evidence, by examination or otherwise, to their head of department not later than the end of the third term of their period of study that their progress has been satisfactory.

14. Schemes of advanced study approved for the purpose of the degree of Master of Arts will normally start in October each year, at the beginning of the academic session.*

15. The examination for the degree may include, in addition to any written papers, assessment of a dissertation on a minor research project and, at the discretion of the examiners, an oral examination.

16. The names of candidates who have satisfied the examiners shall be arranged in alphabetical order, and distinction may be awarded for work of exceptional merit.

17. A candidate who has failed in the examination for the degree of Master of Arts may be permitted, on the special recommendation of the examiners, to present himself for re-examination on one occasion only.

* Details of the schemes approved in each subject and the prescribed examinations are given on pages 123-137

THE DEGREE OF MASTER OF EDUCATION

The degree of Master of Education is governed by Ordinance VIII, articles 5 to 9, and relevant regulations which are set out on pages C10-C11 and C16-C17.

THE DEGREE OF MASTER OF PHILOSOPHY

The degree of Master of Philosophy is governed by Ordinance VIII, articles 10 to 20, and relevant regulations which are set out on pages C11-C13 and C17-C18.

THE DEGREE OF DOCTOR OF PHILOSOPHY

The degree of Doctor of Philosophy is governed by Ordinance VIII, articles 21 to 28, and relevant regulations which are set out on pages C13-C14 and C18-C19.

THE DEGREE OF DOCTOR OF LETTERS

18. All applications must be made in writing to the Registrar and contain a full statement of the grounds on which the claim for the degree is based, together with three copies of any thesis, whether in print or in manuscript, which the applicant may desire to submit in support of the application. A copy of the thesis approved for the degree will be retained in the University library.

19. A candidate must not submit in chief or sole support of his application for the degree a thesis for which a degree has been awarded in the University of Leeds or any other university, or which is under consideration for the award of a degree in another university; but he will not be precluded from submitting in additional support of his application a thesis for which a degree has already been awarded or from incorporating (in whole or in part) such work in the thesis submitted, provided he clearly indicates the work thus submitted or incorporated.

The application must be accompanied by the prescribed fee.

THE DEGREE OF DOCTOR OF DIVINITY

20. All applications must be made in writing to the Registrar and contain a full statement of the candidate's academic record and any other qualifications on which the application for the degree is based, together with two or more copies of the published work or works whether in print or in typescript which the candidate may desire to submit in support of the application. A copy of the work or works approved for the degree will be retained in the University library.

21. A candidate must not submit in chief or sole support of his application for the degree a thesis for which a degree has been awarded in the University of Leeds or in any other university, or which is under consideration for the award of a degree in another university; but he will not be precluded from submitting in additional support of his application a thesis for which a degree has already been awarded or from incorporating (in whole or in part) such work in the thesis submitted, provided he clearly indicates the work thus submitted or incorporated.

The application must be accompanied by the prescribed fee.

THE DEGREE OF DOCTOR OF MUSIC

22. All applications must be made in writing to the Registrar and contain a full statement of the candidate's academic record and any other qualifications on which the application for the degree is based, together with two copies of the works or work and thesis which the candidate

may desire to submit in support of the application. A copy of the thesis and of the work or works approved for the degree will be retained in the University library.

23. A candidate must not submit in chief or sole support of his application for the degree a composition or thesis for which a degree has been awarded in the University of Leeds or in any other university, or which is under consideration for the award of a degree in another university; but he will not be precluded from submitting in additional support of his application a composition or thesis for which a degree has already been awarded or from incorporating (in whole or in part) such work in that submitted, provided he clearly indicates the work thus submitted or incorporated.

Regulations for Diplomas and Certificates

24. Candidates for diplomas must give satisfactory attendance upon all the subjects which form part of their course of study, and present themselves for class examinations. Those who do not pass these examinations satisfactorily in any year will be disqualified for the diploma unless they repeat the course in whole or in part, as may be required by the Senate.
25. At the close of the course candidates must present themselves for such examination in the main subject of study as may be prescribed.
26. Some deviation from the courses may be sanctioned in special cases and students who on entering upon a diploma course produce evidence that they possess a sufficient knowledge of the work done during a part of the course will be allowed to dispense with a certain amount of attendance. Applications for exemption from attendance should be made to the head of the department concerned who shall bring them before the standing committee of the Senate appointed to deal with such matters.

Courses are provided leading to the following diplomas and certificates:

Diploma in Hebrew
Certificate in Arabic
Postgraduate diploma in Semitic studies
Postgraduate diploma in English studies
Postgraduate diploma in English as a second language
Postgraduate diploma in folk life studies
Postgraduate diploma in Celtic studies
Postgraduate diploma in Icelandic studies
Postgraduate diploma in Mongol language and Mongolian studies
Postgraduate diploma in phonetics
Postgraduate diploma in theology
Certificate in applied social studies
Graduate certificate in education
Postgraduate diploma in textile design
Postgraduate diploma in health services administration

Detailed regulations governing courses of study and examination requirements for the diploma in development administration will be found in the prospectus *Faculty of Economic and Social Studies* page E45, for the diploma in the history and philosophy of science in the prospectus *Faculties of Science and Applied Science* page G116, and for the remainder of the above qualifications on page C138 and fol.

Courses are also provided for the following diplomas and certificates of the University of Leeds Institute of Education:

The diploma in primary education
secondary education
the education of backward children
religious education
physical education
curricular studies
further education
art education
science education
*educational studies
*the teaching of English overseas
*educational administration
English studies

The certificate in the education of backward children.
*The certificate (or graduate certificate) in educational studies.
*The certificate (or graduate certificate) in the teaching of English overseas.
Particulars and regulations will be found in the *Handbook* of the Institute of Education.

* For educationists from overseas.

ORDINANCE VIII. RESEARCH DEGREES

1. The research degrees shall be:
Bachelor of Divinity (B.D.)
Master of Education (M.Ed.)
Master of Laws (LL.M.)
Master of Laws in Commercial Law (LL.M. Com.)
Master of Philosophy (M.Phil.)
Doctor of Philosophy (Ph.D.)

THE DEGREE OF BACHELOR OF DIVINITY
(A postgraduate qualification)

2. The degree of Bachelor of Divinity may be conferred, on payment of the appropriate fee, upon registered graduates of the University, subject to the conditions contained in the following paragraphs.

3. Graduates of the University may proceed to the degree of Bachelor of Divinity not less than two years after graduation on presenting a thesis satisfactory to the Senate upon a subject approved by the appropriate committee, provided that they have passed the Bachelor of Divinity qualifying examination* not less than one year before the presentation of the thesis. Candidates may also be required to pass an examination—written or oral or both—in the subject of their thesis.

Graduates of other universities

4. Graduates of other universities may proceed to the degree of Bachelor of Divinity:
(a) after becoming registered students of the University
(b) after attending for not less than two academic years such courses of lectures in the University as the Senate may require
(c) after passing the Bachelor of Divinity qualifying examination
(d) after presenting, not less than one academic year after passing the Bachelor of Divinity qualifying examination, a thesis satisfactory to the Senate upon a subject approved by the appropriate committee. Candidates may also be required to pass an examination—written or oral or both—in the subject of the thesis.

[See also the regulations on pages C15-C16].

THE DEGREE OF MASTER OF EDUCATION

5. The degree of Master of Education may be conferred, upon payment of the proper fee, on candidates who have fulfilled the requirements set out in the following paragraphs and who have passed the required examinations.

6. Candidates shall be graduates of the University of Leeds or of another approved university, and shall have obtained either a Graduate Certificate in Education of this or of another approved university, or a qualification which is approved by the Senate as equivalent; provided that, in exceptional circumstances, the Senate may admit as candidates persons who do not fulfil both of these conditions; such persons shall satisfy the Senate that their attainments are adequate and that they are qualified to pursue a course of advanced study and research.

*See page C15.

7. Applicants for admission under the preceding paragraph who are not graduates, and applicants who have not obtained a Graduate Certificate in Education or its equivalent, shall present themselves for examination—written and, if necessary, oral; such applicants will be permitted to enter the University and to become candidates for the degree of Master of Education only if they have obtained a satisfactory result in the examination; and if they are not graduates, they will also be required to fulfil the following conditions:

(a) To be registered as students of the University

(b) To pursue an approved course of study under the supervision of the head of the department of education

(c) To attend such courses of lectures at the University as the Senate may require.

8. Every candidate shall, since attaining qualified teacher status, have obtained not less than two years' experience either in approved full-time service as a teacher in a school or in some other approved educational work.

9. Candidates for the degree of Master of Education who are graduates shall pursue a course of full-time study extending over not less than two academic years or a course of part-time study extending over not less than three academic years.
Candidates who are not graduates shall pursue a course of study extending over not less than three academic years.
See also the regulations on pages C16-C17].

THE DEGREE OF MASTER OF LAWS
THE DEGREE OF MASTER OF LAWS IN COMMERCIAL LAW

The degree of Master of Laws and the degree of Master of Laws in Commercial Law are governed by Ordinance IV, articles 7 to 19, and relevant regulations which are set out in the prospectus *Faculty of Law*.

THE DEGREE OF MASTER OF PHILOSOPHY

10. The degree of Master of Philosophy may be conferred, on payment of the proper fees and on presentation of a thesis, on candidates who have completed approved research (in addition to which courses of advanced study formally examined may be prescribed by the Senate) and who thereafter satisfy the examiners for the degree; subject to the fulfilment of the conditions laid down in the following articles and in the regulations governing the award of the degree (see pages C17-C18).

11. Except as provided in subsequent sections of this Ordinance, the period of full-time or, where appropriate, part-time study will normally be not less than two academic years.

12. Graduates of the University of Leeds may present themselves for the examination for the degree of M.Phil. in an approved subject without being required to attend the University, or to study under the supervision of a member of staff, or to pay fees other than the examination fee. Such candidates are, however, required to consult fully with the appropriate head of department on their subject of research and programme of work. In all other respects they will be required to satisfy the conditions as laid down in the Ordinance and the regulations governing the award of the degree.*

Candidates in the Faculties of Arts, Education and Economic and Social Studies

13. Graduates of any approved university may be accepted as candidates for the degree of M.Phil. and shall proceed to the degree by presenting a thesis satisfactory to the Senate on a

* Such candidates are advised to maintain regular contact with their department, which should be kept informed about the progress of their studies.

subject approved by the appropriate committee and, where the approved work for the degree includes a substantial element of advanced study, by satisfying the examiners in the written examinations thereon; provided that, with the approval of the Senate

(a) graduates who wish to proceed to the degree in a subject not studied as a substantial part of the course for their first degree may be required, before acceptance as candidates, to reach a satisfactory standard in a preliminary examination in that subject

(b) graduates who have not reached the honours standard in their first degree examination may be required to pass a qualifying examination in a subject prescribed by the appropriate committee not less than one year after the date of their acceptance.

14. In exceptional circumstances persons who are not graduates may, if they satisfy the Senate that their educational attainments and experience qualify them to undertake a course of advanced study and research prescribed for the degree of M.Phil., be accepted as candidates for the degree and shall present themselves for the degree examination after not less than three academic years' study on an approved course. Such candidates must first reach a satisfactory standard in a special preliminary examination and, thereafter, may proceed only if

(a) at the end of the first year they have given evidence to the Senate that their work has been satisfactory; and

(b) at the end of their second year they have passed a general examination in the subject of their study.

15. In approved cases, candidates wishing to proceed to the degree after being awarded a postgraduate diploma of the University *with distinction* in a relevant subject, may count the period of the diploma course towards the minimum period of study for the degree and thus present themselves for examination for the degree after one further calendar year of study.
[See also the regulations on pages C17-C18].

Candidates in the Faculties of Science, Applied Science and Medicine

16. Graduates of any approved university and of any faculty in this University, persons who have been awarded an approved diploma in applied science of this University in a subject regarded by the Senate as an appropriate preparation for the proposed research; or persons whose qualifications by study in an approved institution have been accepted by the Senate as equivalent to or in lieu of a degree, may be accepted as candidates for the degree of M.Phil. and shall fulfil the conditions laid down in the following articles to qualify for the award of the degree.

17. Candidates shall undertake research work, normally extending over no less than two academic years, under supervision in the University on a subject approved by the appropriate committee and shall thereafter present to the Senate a thesis embodying the results of their research. They shall also attend such formal courses of instruction as may be prescribed by the head of the department concerned.

18. (a) Candidates who have

(i) graduated as Bachelors of Science with first- or second-class honours or who hold qualifications which are deemed equivalent or

(ii) been awarded an approved postgraduate diploma in a subject regarded by the Senate as an appropriate preparation for the proposed research and achieved a sufficiently high standard in the examination, or

(iii) obtained qualifications by study in an approved institution accepted by the Senate on the recommendation of the appropriate committee as equivalent to a first- or second-class honours degree,

may be allowed to present themselves for the degree before the expiry of two academic years provided that they have prosecuted research under supervision in the University for a period of not less than one calendar year and made satisfactory progress. Although the award

of the degree may be approved at an earlier date it may not be conferred until a period of two academic years has elapsed from the date of the commencement of the candidate's study;

(b) Candidates qualified under (i) to (iii) in 18(a) above who have industrial or other experience of special relevance to their subject of research may, on the recommendation of the head of the department concerned and of the appropriate committee, receive the degree before the expiry of two academic years provided that they have prosecuted research under supervision in the University for a period of not less than one calendar year and thereafter satisfied the examiners.

19. Persons qualified under article 16 who are:

(a) members of the full-time teaching staff of any institution approved in each case by the Senate for this purpose; or

(b) members of the staff of industrial or scientific establishments geographically near to the University and approved by the Senate in each case for this purpose

shall be required to undertake approved research under supervision, normally by a member of the staff of the University, both at their place of work and in the University for a total period extending over not less than nine terms.

20. In exceptional cases, persons who are not graduates but who have satisfied the Senate that their educational attainments and experience are adequate may be accepted as candidates for the degree with such period of full-time or part-time study as may be prescribed in each case.

THE DEGREE OF DOCTOR OF PHILOSOPHY

21. The degree of Doctor of Philosophy may be conferred, on payment of the appropriate fee and on presentation of a thesis, subject to the conditions in the following articles and in the regulations governing the award of the degree (see pages C18-C19):

(a) on persons who are registered graduates of the University of Leeds or graduates of an approved university

(b) on the holder of a recognised degree awarded as a result of study at an approved institution other than a university; or of a diploma awarded by such an institution not empowered to confer degrees; or of any other qualification approved for this purpose by the Senate; provided that the course of study in the subject for which the degree has been awarded has extended over not less than three years of full-time study and is acceptable to the Senate as being an adequate preparation for the research proposed

(c) in exceptional circumstances, on the holder of a diploma of the University of Leeds, provided that the Senate is satisfied regarding the course of study towards such diploma and the standard attained by the candidate in the examination for the diploma.

22. A candidate applying for acceptance for the degree under the provisions of paragraphs (b) and (c) of article 21 will be required to present to the Senate evidence of a satisfactory general education; and in the absence of such evidence may be required to pass an examination to be prescribed in each case by the Senate, before his acceptance.

23. Except as may hereinafter be provided, all candidates for the degree of Doctor of Philosophy are required to pursue for not less than three academic years (of which not less than two calendar years must be of full-time study in residence at the University) an approved course of advanced study and research under such supervision and direction as may be prescribed.

24. In special circumstances, candidates may be permitted to devote such periods as may be deemed advisable by the Senate to full-time study and research in other approved universities or institutions, or in an approved scientific or industrial establishment, while remaining under the

direction of the University or of persons nominated by the University, provided that they spend in the University not less than one calendar year or an equivalent period prescribed by the Senate.

(Persons working in approved scientific or industrial establishments will be eligible for acceptance for the degree of Doctor of Philosophy under the provisions of article 24 only if the terms of their employment permit them to devote their whole time to their research for the degree; and will normally be expected to be in full-time residence at the University for at least the first two terms of their course, when they may be required to attend formal instruction at an advanced level. The Senate reserves the right to extend the overall minimum period of study of three academic years in such cases.)

25. Normally applicants for acceptance as candidates for the degree of Doctor of Philosophy under the provisions of article 21 above will, in the first instance, either be required to apply for acceptance as candidates for the degree of Master of Philosophy or be asked to register as research students, and may, with the approval of the appropriate committee, be accepted as candidates for the degree of Doctor of Philosophy on completion of their first year of study to the satisfaction of the head of the department concerned. The Senate may waive this requirement in the case of

(a) persons already holding a higher degree of an approved university or institution awarded on completion of a course of advanced study or research undertaken after the award of a first degree

(b) persons whose academic qualifications reach the required standard and who have, in addition, industrial or other experience of special relevance to their proposed subject of research, and who are recommended by the head of the department concerned as being suitably qualified for direct acceptance for the degree.

26. Candidates in the Faculties of Science, Applied Science and Medicine whose academic qualifications reach the required standard and who have industrial or other experience of special relevance to the proposed subject of research or who have made outstanding progress in their studies may, on the recommendation of the head of the department concerned and with the approval of the appropriate committee, present themselves for the examination for the degree after a minimum of two calendar years of full-time study. Such candidates shall not be eligible to have the degree conferred upon them (except as specified in article 27) until the expiry of the full minimum period of study of three academic years.

27. The Senate shall be empowered:

(a) to reduce, in exceptional cases, the minimum period of three academic years of full-time study for the degree of Doctor of Philosophy in cases where the academic qualifications of a candidate or the excellence of his work for the degree merit such a reduction, provided that no candidate may have the degree conferred upon him before the completion of two calendar years of full-time study, or such equivalent period as may be determined

(b) to permit persons holding the approved higher degrees to present themselves for examination for the degree after two calendar years.

28. In the case of persons accepted for the degree under article 21 (a) and (b) above, the normal requirement of three academic years of full-time study may be waived at the discretion of the Senate. Such candidates will be required to undertake a part-time course of advanced study and research in the University for a minimum period of *three calendar years;* and during this period to maintain such personal contact with their supervisor as may be prescribed by the appropriate committee.

(The provisions of article 28 will normally be restricted to candidates already holding a higher degree obtained by advanced study and research, or other relevant qualification or experience.)

[See also the regulations on pages C18-C19.]

THE DEGREE OF BACHELOR OF DIVINITY

(A postgraduate qualification)

Graduates of the University

1. In all cases candidates wishing to present a thesis connected with Old Testament studies must, before acceptance as candidates for the degree, have passed an examination in Hebrew of a standard equivalent to that required of candidates taking Hebrew as a three-year subject for the degree of Bachelor of Arts. Similarly, candidates wishing to present a thesis connected with New Testament studies must, before acceptance as candidates for the degree, have passed an examination in Greek of a standard equivalent to that required of candidates taking Greek as a three-year subject for the degree of Bachelor of Arts.

The qualifying examination for the degree consists of the following subjects:

Old Testament history, literature and religion with or without Hebrew language and literature (2 papers, either in Old Testament alone, or in Hebrew and Old Testament)
New Testament language and literature (2 papers)
Church history (2 papers)
Biblical and historical theology (2 papers)
The philosophy of religion (2 papers) *or*
The history of religion (2 papers) *or*
The philosophy of religion (1 paper) *and*
The history of religion (1 paper)

The syllabus is that prescribed for the relevant subjects for the degree of Bachelor of Arts in theology. The first part of the examination in each subject may be taken in one year and the second in the subsequent year. Candidates who divide the examination must take the appropriate papers for the degree of Bachelor of Arts in theology.

2. Candidates for the qualifying examination will be excused those subjects or parts of subjects in which they have passed in their degree examination.

Graduates of other universities

3. In all cases candidates wishing to present a thesis connected with Old Testament studies must, before acceptance as candidates for the degree, have passed an examination in Hebrew of a standard equivalent to that required of candidates taking Hebrew as a three-year subject for the degree of Bachelor of Arts of the University. Similarly, candidates wishing to present a thesis connected with New Testament studies must, before acceptance as candidates for the degree, have passed an examination in Greek of a standard equivalent to that required of candidates taking Greek as a three-year subject for the degree of Bachelor of Arts of the University.

4. Candidates for the qualifying examination [regulation 1 above] will be excused those subjects or parts of subjects in which they have passed the equivalent in their degree.

All candidates

5. A candidate must not submit as his thesis one for which a degree has been awarded in the University of Leeds or in any other university, or which is under consideration for the award of a degree in another university; but he will not be precluded from incorporating in his thesis any part of such work provided that he states his desire to do so at the time of his application

for acceptance as a candidate and in the thesis itself indicates the part of the work so incorporated.

The thesis, which must be submitted not later than 1 May, should be typewritten and at least two copies should be supplied. The last day for entry for examinations in June is 29 January.

THE DEGREE OF MASTER OF EDUCATION

6. All candidates must undertake studies in education which shall include:
   (a) Theory of education, educational psychology and research methods in education, each for two years
   (b) Two of the following, one in the first year of the course and one in the second year, the subjects to be selected in consultation with the head of the department of education:
      (i) History of education
      (ii) Educational administration
      (iii) Sociology of education
      (iv) Comparative education
      (v) Curriculum studies

Not all the subjects in this list will necessarily be available in any one year, and new subjects may be added from time to time.

7. All candidates must attend for tuition in the first and second years of the course. At the end of each year they will be required to present themselves for examination on the subjects of their study.

The examination at the end of the first year will consist of one paper in each of the following: Theory of education and one other subject; together with such other tests—written or oral—as may be prescribed by the examiners from time to time. In addition, the course on research methods in education will be examined by continuous assessment throughout the first year.

The examination at the end of the second year will consist of one paper on each of the following: Theory of education, educational psychology, and one other subject; together with such other tests—written and oral—as may be prescribed by the examiners from time to time.

No candidate who fails the examination at the end of the first year will be allowed to proceed with the course; and no part-time candidate who fails the examination at the end of the second year will be allowed to proceed to the dissertation.

All candidates will be required in addition to prepare a dissertation upon a subject approved by the Senate, and they must also present themselves for examination—written and, if necessary, oral—on the subject of the dissertation.

Full-time students will prepare this dissertation during the first two years of the course. Part-time students will normally prepare the dissertation after passing the examination at the end of the second year of the course.

In the award of a degree, consideration will be given to the candidate's results in the first-year and second-year examinations, to the dissertation and to his performance in the examination on the subject of the dissertation.

8. Persons who are not graduates and who apply to become candidates for the degree must:
   (a) present themselves for interview by the appropriate committee and subsequently take an examination designed as a test of fitness to proceed to study for a higher degree; this will not necessarily be confined to the subject in which the candidate wishes to proceed and will consist of:
      (i) a total of at least two written papers in not less than two separate subjects approved by the Senate
      (ii) an essay
      (iii) an oral examination.

It shall be in the discretion of the committee to exempt an applicant from the oral examination.

(b) attend for supervised study in the University in the first and second years of their course for a total of not less than four hours a week. In special cases the above attendance requirements may be modified by the Senate.

9. The examination for graduates who have not obtained a Graduate Certificate in Education or an equivalent qualification and who wish to become candidates for the degree of Master of Education will include an essay paper and if necessary an oral examination.

10. Not less than three months before the completion of his course the candidate must make application to the Registrar to be examined. Thereafter, but not more than six weeks before the end of the course, the candidate must submit two copies of a dissertation each of which must be accompanied by a short abstract to be bound at the front of the dissertation. Dissertations must be bound in a standard form, particulars of which may be obtained from the Registrar. The top copy (not the first carbon copy) of the dissertation approved for the degree will be retained in the University Library.

Normally there will be a period of six to eight weeks between the submission of a dissertation and the announcement of the result of the examination.

11. The names of candidates who have satisfied the examiners shall be arranged in alphabetical order, and distinction may be awarded for work of exceptional merit at the discretion of the examiners.

THE DEGREE OF MASTER OF LAWS
THE DEGREE OF MASTER OF LAWS IN COMMERCIAL LAW

The degree of Master of Laws and the degree of Master of Laws in Commercial Law are governed by Ordinance IV, articles 7 to 19, and relevant regulations which are set out in the prospectus *Faculty of Law*.

THE DEGREE OF MASTER OF PHILOSOPHY

All Candidates

12. Except in the case of graduates of the University accepted as candidates under the provisions of article 12 of Ordinance VIII, all candidates for the degree of M.Phil. shall be required:

(a) to be registered as students of the University

(b) to undertake an approved course of research or combination of research and advanced study, as prescribed by the appropriate committee, under the supervision of the head of the department concerned or any other person nominated for this purpose by the University

(c) to give evidence of satisfactory progress by such means as may be prescribed by heads of department

(d) to satisfy the examiners for the degree.

13. A candidate must not submit as his thesis one for which another degree or similar qualification has been awarded, or which is under consideration for such an award; but he will not be precluded from incorporating in his thesis any part of such work provided that he states his wish to do so at the time of his application for acceptance as a candidate and in the thesis itself indicates the part of the work so incorporated.

14. In all subjects the examination for the degree may, at the discretion of the examiners include an oral examination and such other test as may be deemed appropriate.

15. Not less than three months before the completion of his course the candidate must make application to the Registrar to be examined. Thereafter, but not more than six weeks before the end of the course, the candidate must submit two copies of a thesis each containing a short abstract which should be bound at the front of the thesis. Theses must be bound in a standard form, particulars of which may be obtained from the Registrar. The top copy (not the first carbon copy) of the thesis approved for the degree will be retained in the University Library.

Normally there will be a period of six to eight weeks between the submission of the thesis and the announcement of the result of the examination.

16. The names of candidates who have satisfied the examiners shall be arranged in alphabetical order, and distinction may be awarded for work of exceptional merit.

Candidates in the Faculties of Arts, Education and Economic and Social Studies

17. Candidates undertaking advanced study as part of their course for the degree of M.Phil. must pass the prescribed examinations. (The examination syllabuses are set out on page C138).

18. Persons who are not graduates applying for acceptance for the degree under article 14 must:
(a) present themselves for interview by the appropriate committee and, if required, subsequently take an examination to establish their fitness to proceed to study for the degree. Such an examination may not be confined to the subject in which the candidate wishes to proceed
(b) attend for supervised study in the University for such periods as may be prescribed by the appropriate committee in each case.*

19. Graduates of other universities accepted under article 13 must attend in the University in the first and second years of study for frequent consultation with the head of the department or supervisor to the satisfaction of the appropriate committee.

Candidates in the Faculties of Science, Applied Science and Medicine

20. Candidates accepted under the provisions of articles 19 and 20 shall be required:
(a) to be registered as students of the University
(b) to maintain frequent personal contact with their supervisors and to attend in the University for periods as specified in individual cases by the appropriate committee
(c) to give evidence by examination or otherwise to the head of department concerned not later than the end of the third term of their period of study that their progress has been satisfactory.

THE DEGREE OF DOCTOR OF PHILOSOPHY

21. Before entering on the course of advanced study and research, a candidate must:
(a) submit to the Senate for its approval his proposed course of advanced study and research and present evidence satisfactory to the Senate that he is qualified to undertake the proposed course
(b) register as a student of the University and pay the prescribed fees for tuition.

22. Except with the special permission of the Senate, no candidate for the degree of Ph.D. may submit a thesis later than six years if engaged in full-time study, or later than eight years in part-time study, from the date of registration for the degree.

* Normally attendance will be on at least two days a week for a total of not less than six hours a week during the first year; and in subsequent years on at least two days a week for a total of not less than four hours a week, unless in special cases the Senate has agreed to modify these attendance requirements.

23. On completing the course of advanced study and research a candidate must:
(a) present a thesis on the subject of his advanced study and research, and satisfy the examiners that it contains original work worthy of publication, and that it is of a sufficient standard of merit to qualify for the degree of Doctor of Philosophy
(b) present himself for an oral examination, except in the case of mathematics, on matters relevant to his thesis and, if required, for a written examination, and satisfy the examiners in the examinations as well as in the thesis presented.

24. The application of a candidate for admission to the course for the degree must give particulars of his educational career and qualifications as well as the subject of his proposed course of advanced study and research. The application must be addressed to the Registrar.
(A candidate is advised, before making application to the Registrar, to consult the head of the department which is concerned with the subject he proposes to study.)

25. A full-time candidate during his course must devote his whole time to his advanced study and research; but in exceptional cases the Senate is prepared to allow the candidate to undertake a limited amount of outside work which, in its judgment, would not interfere with the prosecution of his proposed course of advanced study and research.

26. A candidate must not submit as his thesis one for which another degree or similar qualification has been awarded, or which is under consideration for such an award; but he will not be precluded from incorporating in his thesis any part of such work provided that he states his wish to do so at the time of his application for acceptance as a candidate and in the thesis itself indicates the part of the work so incorporated.

27. It will be generally convenient that the candidate's course should begin at the opening of the academic year in October; but the Senate is prepared to consider applications for leave to begin the course at some other time.

28. Not less than three months before the completion of his course the candidate must make application to the Registrar to be examined. Thereafter, but not more than six weeks before the end of the course, the candidate must submit two copies of a thesis each containing a short abstract which should be bound at the front of the thesis. Theses must be bound in a standard form, particulars of which may be obtained from the Registrar. The top copy (not the first carbon copy) of the thesis approved for the degree will be retained in the University Library.

29. Normally there will be a period of six to eight weeks between the submission of the thesis and the announcement of the result of the examination.

RULES REGARDING PROGRESS PROCEDURE

A clear indication will be given to each student at the outset of his course that unless there are special circumstances affecting his progress he will be expected to fulfil the University's examination requirements within the normal time.

Warnings, not necessarily in writing, may be given to students at any time by heads of departments, deans or sub-deans that failure to improve the standard of their work may lead to their course of study being terminated.

A student may be required to terminate his course, after consideration of his examination results, without previously having been warned.

Regulations prescribing Schemes of Study for the Degree of Bachelor of Arts

Candidates should note that in order to qualify for admission to a scheme of study for a first degree in the University, they must satisfy both a *General Requirement* and a *Course Requirement*. For information regarding the *General Requirement*, for purposes of matriculation, candidates should write to The Secretary, Joint Matriculation Board, Manchester, M15 6EU. The *Course Requirement* is set out at the beginning of the regulations for each scheme of study in the Faculty of Arts.

Enquiries about schemes of study should be addressed to the Registrar, The University, Leeds, LS2 9JT.

SCHEMES OF STUDY

Schemes of study leading to the degree of Bachelor of Arts in the following subject or subjects are available in the Faculty of Arts:

Arabic and English (see page C22)
Arabic and French (see page C23)
Arabic and Portuguese (see page C24)
Arabic and Religious Studies (see page C25)
Arabic and Spanish (see page C25)
Archaeology and Latin (available from October 1972) (see page C26)
Chinese Studies (see page C27)
Classics (see page C29)
Economics and History (see page C30)
English (see page C31)
English and Fine Art (see page C35)
English and French (see page C36)
English and Greek Civilisation (see page C37)
English and Hebrew (see page C39)
English and History (see page C40)
English and Italian (see page C41)
English and Latin (see page C43)
English and Music (see page C45)
English and Portuguese (see page C46)
English and Religious Studies (see page C47)
English and Russian (see page C48)
English and Spanish (see page C49)
English and Theology (see page C50)
English Literature and Philosophy (see page C51)
Fine Art (see page C52)
Fine Art and Music (see page C56)
Fine Art and Philosophy (see page C57)
Fine Art and Spanish (see page C58)
French Language and Literature (see page C59)
French and Hebrew (see page C61)
French and History (see page C62)
French and Latin Languages and Literatures (see page C64)
French and Management Studies (see page C64)
French and Philosophy (see page C65)
French and Portuguese (see page C66)
French and Religious Studies (see page C68)
French and Theology (see page C69)

Geography and History (see page C70)
Geography and Mathematics (see page C71)
German Language and Literature (see page C72)
German and Music (see page C74)
German and Philosophy (see page C74)
German and Theology (see page C75)
Greek Language and Literature (see page C76)
Greek Civilisation and Arabic (see page C77)
Greek Civilisation and French (see page C78)
Greek Civilisation and Hebrew (see page C79)
Greek Civilisation and Religious Studies (see page C80)
Greek Civilisation and Theology (see page C80)
Hebrew and Religious Studies (see page C81)
Hebrew and Theology (see page C82)
History (see page C83)
History and Latin (see page C84)
History and Philosophy (see page C85)
History and Portuguese (see page C86)
History and Religious Studies (see page C87)
History and Russian Studies (see page C87)
History and Spanish (see page C88)
History and Theology (see page C89)
International History and Politics (see page C90)
Italian Language and Literature (see page C91)
Italian and Latin (see page C93)
Italian and Music (see page C94)
Latin (see page C95)
Latin and Spanish (see page C96)
Latin and Theology (see page C97)
Mathematics (see page C98)
Mathematics and Philosophy (see page C98)
Modern Languages and Literatures (see page C99)
Music (see page C104)
Music and Religious Studies (see page C105)
Music and Theology (see page C106)
Philosophy (see page C106)
Philosophy and the History of Scientific Thought (see page C107)
Philosophy and Politics (see page C108)
Philosophy and Psychology (see page C108)
Philosophy and Religious Studies (available from October 1972) (see page 109)
Philosophy and Russian (see page C110)
Philosophy and Sociology (see page C111)
Philosophy and Theology (see page C111)
Portuguese and Spanish (see page C112)
*Psychology
Religious Studies and Sociology (see page C113)
Russian Language and Literature (see page (C114)
Semitic Languages and Literatures (see page C116)
Spanish Language and Literature (see page C117)
Textile Design (see page C119)
Textile Management (see page C120)
Theology (see page C121)

• In abeyance; but see prospectus, *Faculties of Science and Applied Science*, page G31.

DETAILS OF SCHEMES OF STUDY

Arabic and English

Two schemes of study extending over a period of three years and leading to the degree of Bachelor of Arts in Arabic and English.

COURSE REQUIREMENT

For admission to the scheme passes in two approved subjects at advanced level are required and a third is preferred. A pass in English will normally be required.

SCHEME OF STUDY

Candidates will normally be required to spend a period of at least one month's duration during the summer vacation following their second year of study in attendance at a course in a recognised institution of learning in an Arabic-speaking country. The cost of residence abroad is not included in the normal fee for an arts scheme.

FIRST-YEAR EXAMINATION

1. Arabic: two papers as follows:
   (a) Grammar and composition
   (b) Prescribed texts and history
2. English I: two papers as follows:
   (a) Renaissance poetry and drama
   (b) The development of English from the 12th century to the 17th century with special reference to the Renaissance (c. 1550 to 1620)
3. One other approved subject.

SCHEME A

SECOND YEAR: PART I EXAMINATION

1. English literature 2: 17th and 18th centuries
2. Shakespeare

FINAL EXAMINATION

1. Koran and Arabic poetry
2. Classical and modern Arabic prose
3. Translation into Arabic, with questions on grammar and stylistics
4. Arabic history and historical development of the language
5. English literature 3: 19th and 20th centuries
6. *Option* Milton *or* Another special author *or* Criticism *or* American literature *or* Commonwealth literature *or* The development of English 1620 to 1860
7. Candidates will be required to submit not later than 1 May an essay of 8,000 to 10,000 words on a subject which may relate to Arabic or to English or to some topic combining both these subjects. The title should be submitted to the heads of the two departments for approval at the beginning of the third year of the scheme.

SCHEME B

FINAL EXAMINATION

1. Koran and Arabic poetry
2. Classical and modern Arabic prose
3. Translation into Arabic, with questions on grammar and stylistics
4. Arabic history and historical development of the language
5. History of the English language
6. Old and Middle English literature

7. English literature 2: 17th and 18th centuries
8. English literature 3: 19th and 20th centuries
9. Candidates will be required to submit not later than 1 May an essay of 8,000 to 10,000 words on a subject which may relate to Arabic or English or to some topic combining both these subjects. The title should be submitted to the heads of the two departments for approval at the beginning of the third year of the scheme.

Arabic and French

A scheme of study extending over a period of three years (with an additional year spent abroad) and leading to the degree of Bachelor of Arts in Arabic and French.

COURSE REQUIREMENT

For admission to the scheme passes in two approved subjects at advanced level are required, and a third is preferred.
One of these passes must be in French.

SCHEME OF STUDY

Candidates will be required to spend one year either in France (or a French-speaking country) or in an Arabic-speaking country. If they spend their year abroad in France they will normally be required to spend part of the long vacation at the end of the second year at an Arabic-speaking university or institution of learning, approved by the Department of Semitic Studies. If they spend the year in an Arabic-speaking country, they will be required to spend the summer term of their second year following a course of study at a French-speaking university approved by the heads of both Departments. Wherever possible, arrangements will be made for students spending the year in France to take a post as *assistant*. If such arrangements cannot be made, students will normally be required to spend the academic year following a course of study at a French-speaking university approved by the heads of both departments.

During their year abroad, students will write a dissertation on a question approved by both departments, which may relate to French or to Arabic or to some topic combining both these subjects, and submit such other written work as may be required by the two departments.

The cost of residence abroad is not included in the normal fee for an arts scheme.

FIRST-YEAR EXAMINATION

1. Arabic (2 papers)
2. French: An oral examination in French and two papers as follows:
   (a) French language
   (b) 20th-century French literature and institutions
3. One other approved subject.

PART I EXAMINATION

Candidates will be examined at the end of the second term of the second year in 18th-century French thought (one 1½-hour paper). This paper will constitute Part I of the final examination for the degree of B.A. in Arabic and French.

FINAL EXAMINATION

The final examination will consist of an oral examination in French and the following papers:
1. Koran and Arabic poetry (one 3-hour paper)
2. Classical and modern Arabic prose (one 3-hour paper)
3. Translation into Arabic, with questions on grammar and stylistics (one 3-hour paper)
4. Arabic history and the historical development of the language (one 3-hour paper)

5. Dissertation (to be written during the year abroad and presented by the end of September of the pre-final year)
6. Translation into French (one 3-hour paper)
7. Translation into English and essay in French (one 3-hour paper)
8. 16th-century French literature (one 1½-hour paper)
9. 19th-century French poetry (one 1½-hour paper)
10. 19th-century French novel (one 1½-hour paper)
11. Special subject in French (one 1½-hour paper).

Arabic and Portuguese

A scheme of study extending over a period of three years (with an additional year spent abroad) and leading to the degree of Bachelor of Arts in Arabic and Portuguese.

COURSE REQUIREMENT

For admission to the scheme passes in three subjects at advanced level in a General Certificate of Education or equivalent examination will normally be required.

SCHEME OF STUDY

Candidates will normally be required to spend one year in an Arabic-speaking country or in Portugal between the second and third years of this scheme; and to spend the third term of the second year, or alternatively a period of at least one month, during the long vacation, in attendance at a course in a recognised institution in a country where the other language is spoken. The cost of residence abroad is not included in the normal fee for an arts scheme.

FIRST-YEAR EXAMINATION

1. Arabic: two papers as follows:
   (a) Grammar and composition
   (b) Prescribed texts and history
2. Portuguese: an oral examination in Portuguese and two papers as follows:
   (a) Portuguese language
   (b) Prescribed books

In addition, students will attend essay tutorials on the literature studied, and the work done for these will be taken into account.

3. One other approved subject.

SECOND YEAR: PART I EXAMINATION

1. O Quinhentismo

FINAL EXAMINATION

1. Koran and Arabic poetry
2. Classical and modern Arabic prose
3. Translation into Arabic, with questions on grammar and stylistics
4. Arabic history and historical development of the language
5. *Either* Language and culture in the Peninsula under the Muslims *or* Brazilian literature
6. The 19th-century Portuguese novel
7. Translation into Portuguese
8. Translation from Portuguese into English and essay in Portuguese

In addition, candidates will be required to present by 1 December in their final year an essay of some 8,000 words on an approved topic within the fields of Arabic or Portuguese, or combining both subjects; and will be required to present themselves for an oral examination in Portuguese.

Arabic and Religious Studies

A scheme of study extending over three years and leading to the degree of Bachelor of Arts in Arabic and Religious Studies.

COURSE REQUIREMENT

For admission to the scheme passes in two approved subjects at advanced level are required and a third is preferred.

SCHEME OF STUDY

Candidates will normally spend the third term of their second year, or a period of at least one month during the long vacation following, at an Arabic-speaking university or institute of learning approved by the head of the Department of Semitic Studies. The cost of residence abroad is not included in the normal fee for an arts scheme.

FIRST-YEAR EXAMINATION

1. Arabic (2 papers)
2. Philosophy and history of religion (2 papers)
3. One other approved subject.

FINAL EXAMINATION

1. Koran and Koranic commentaries
2. Classical and modern Arabic texts
3. Translation into Arabic, with questions on grammar and stylistics
4. Arabic history and culture
5. History and religion of Israel to A.D. 70 (with illustrative texts in English)
6. History of religion (Islam)
7. History of religion 3b (Sociology of religion)
8. Early and medieval church history

In addition, candidates will be required to submit by the end of the second term of the final year an essay of 8,000 to 10,000 words on a subject which may relate to Arabic or to religious studies or to some topic combining both these subjects. The title should be submitted to the heads of the two departments for approval at the beginning of the final year of the scheme.

Candidates may also be required to present themselves for an oral examination.

Arabic and Spanish

A scheme of study extending over a period of three years (with an additional period spent abroad) and leading to the degree of Bachelor of Arts in Arabic and Spanish.

COURSE REQUIREMENT

For admission to the scheme a pass in Spanish and normally in two other approved subjects at advanced level in the General Certificate of Education or equivalent examination will be required.

SCHEME OF STUDY

Candidates will normally be required to spend one year in a Spanish-speaking or an Arabic-speaking country between the second and third years of this scheme; and to spend the third term of the second year, or alternatively a period of at least one month's duration, during the long vacation, in attendance at a course in a recognised institution in a country where the other language is spoken. The cost of residence abroad is not included in the normal fee for an arts scheme.

With the permission of the heads of both departments, they may be allowed, in lieu of this requirement, to spend a period of at least one month in Spain and one month in an Arabic-speaking country during the long vacations of their first and second years, these periods to include attendance at approved courses of study; or such other prolonged periods abroad as may be agreed between the two departments.

FIRST-YEAR EXAMINATION

1. Arabic: two papers as follows:
   (a) Grammar and composition
   (b) Prescribed texts and history
2. Spanish: an oral examination in Spanish and two papers as follows:
   (a) Spanish language
   (b) Modern literature

In addition, students will attend selected essay tutorials during the year, and the work done for these will be taken into account.

3. One other approved subject.

SECOND YEAR: PART I EXAMINATION

1. Golden Age literature

FINAL EXAMINATION

1. Koran and Arabic poetry
2. Classical and modern Arabic prose
3. Translation into Arabic, with questions on grammar and stylistics
4. Arabic history and historical development of the language
5. One of the following options:
   Language and culture in Muslim Spain *or* Spanish-American literature *or* Any other main literature course (Spanish) which it may be possible from time to time to offer with the approval of the heads of both departments.
6. Special subject (Spanish literature): one sessional course or two semester courses
7. Translation into Spanish
8. Translation from Spanish and essay in Spanish.

In addition, candidates will be required to present by 1 December in their final year an essay of some 8,000 words on an approved topic within the field of Arabic or Spanish, or combining both subjects; and will be required to present themselves for an oral examination in Spanish.

Archaeology and Latin*

A scheme of study extending over a period of three years and leading to the degree of Bachelor of Arts in Archaeology and Latin.

COURSE REQUIREMENT

For admission to the scheme, passes in two approved subjects at advanced level are required and a third is preferred.

One pass must be in Latin.

* Available from October 1972.

FIRST-YEAR EXAMINATION

1. Archaeology: two papers:
   (a) Aims and methods of archaeology
   (b) Roman imperialism and its legacy
2. Latin: two papers:
   (a) Latin language, including unprepared translation
   (b) Latin literature and prescribed texts
3. History: two papers:
   (a) Ancient Rome and the Roman world
   (b) Medieval Europe

FINAL EXAMINATION

1. Archaeology of the Roman provinces
2. Archaeology of medieval north-west Europe
3. A special topic from the field of either Roman or medieval archaeology (e.g. Roman frontier works, monasticism)
4. Latin language including unprepared translation
5. Latin literature: prescribed books I
6. Latin literature: prescribed books II. A number of texts, including some in medieval Latin, will be prescribed from the post-classical period.
7. Two of the following subjects (1 paper):
   (a) Latin tragedy and comedy
   (b) Latin epic
   (c) Latin satire
   (d) An approved special subject (e.g. Roman historiography, Roman coinage, Roman historical reliefs)
8. Practical examination based on the field-work undertaken and the identification of objects.

In addition, candidates will be required to submit, not later than 1 May in their final year, an essay of 8,000 to 10,000 words on a subject which may relate to archaeology or to Latin or to some topic combining both these subjects. The title must be submitted for approval before the end of the third term of the second year.

Candidates will be required to spend two periods of not less than three weeks each on field-work. These will be undertaken in vacations and one will be on a Roman site, the other on a medieval site as approved by the Board of Studies.

Chinese Studies

A scheme of study extending over a period of four years and leading to the degree of Bachelor of Arts in Chinese Studies.

COURSE REQUIREMENT

For admission to the scheme passes in three approved subjects at advanced level are preferred although candidates with two good passes will also be considered. These passes may be in any approved subject.

In addition a pass in a language other than English at ordinary level is required.

SCHEME OF STUDY

First Year

1. Chinese language
2. Chinese studies

} 3 papers and an oral examination

3. One approved subject selected from:
   Economics (2 papers)
   Geography (3 papers)
   History (2 papers)
   Politics (3 papers)
   Sociology (3 papers)*

Candidates will normally be required to pass examinations in sections 1, 2, and 3 of the first year before proceeding to further study.

Second, Third and Fourth Years

1. Chinese language
2. Chinese studies (economic, social and political institutions and history)
3. History of Chinese thought and literature with special reference to the period since 1890
4. The second approved subject taken in the first year. See (3) above.

FINAL EXAMINATION

The final degree examination in Chinese language and Chinese studies will consist of 5 papers and an oral examination:

1. Translation from Chinese
2. Chinese prose composition
3. Prescribed texts (literature)
4. Prescribed texts (documents)
5. Chinese studies (economic, social and political institutions and history)

In addition, candidates will be required to submit an extended essay on a subject approved by the head of the Department of Chinese Studies.

Candidates will normally be required to present themselves for the final examination in their second subject at the end of the fourth year.

The 4 papers in the second subject will consist of:

Economics
   Economic theory
   Comparative economic systems and economic development
   International economics
   The economy of China, or a special subject in economics approved by the heads of both departments.

Geography
   Environmental physiography
   Natural resources, regional and urban development
   Historical geography of Monsoon Asia
   China

In the Department of Geography tutorial and essay work is required in all three years and candidates will be required to attend field courses, one of which may be held in a vacation period. Field work will be tested in the examinations.

History
   Two papers in Chinese history, one of which will relate to a special aspect of Chinese history studied in relation to prescribed texts.
   Two papers to be selected from the following:
      Economic history of the modern world from c. 1850
      British history from the end of the 17th century
      European social and intellectual history 1815 to 1918
      History of Russia from 1856
      History of the U.S.A. from 1783

* In exceptional circumstances, and with the approval of the head of the Department of Chinese Studies, some other first-year subject may be taken in place of those mentioned.

Politics
Politics 1
Politics 2
Political and social theory
Government and politics of China

Sociology
Sociology (2 papers)
The social structure of China
The institutions of advanced societies

Classics

Two schemes of study leading to the degree of Bachelor of Arts in Classics, one extending over three years (alternative 1) and the other extending over four years (alternative 2). Candidates wishing to take the four-year scheme (alternative 2) must enter the first year of the scheme in Latin. After successful completion of the first year of study candidates may be permitted to transfer to the four-year scheme in classics.

COURSE REQUIREMENT

For admission to the three-year scheme of study (alternative 1) passes in Latin and Greek at advanced level are required.

The course requirements for the four-year scheme of study (alternative 2) are the same as those for the degree in Latin.

SCHEME OF STUDY

Prescribed Greek and Latin authors
Greek and Latin unseen translation
Greek and Latin composition
Greek and Latin literature
Ancient history
Either Ancient philosophy
or History and archaeology of Roman Britain
or Two special subjects, to be chosen normally one from the list of special subjects for the single-subject Greek scheme, the other from the list of special subjects prescribed for the single-subject Latin scheme.

Candidates may offer *either* (alternative 1) Greek and Latin as for the single-subject schemes throughout the period of study, passing both at the same examination, normally at the end of the third year, *or* (alternative 2) Latin as for the single-subject scheme in the first three years and an approved course in Greek in the first year and Greek as for the single-subject scheme in the second, third and fourth years, the final examination in Latin to be taken at the end of the third year of study and in Greek at the end of the fourth year. Under the second alternative the class list will be published only after the final examination in the fourth year, and will be based on the results of both examinations; after the examination at the end of the third year the names of those who have satisfied the examiners will be published in alphabetical order. The attendance on courses required for the first year for the degree of Bachelor of Arts in two subjects may also be accepted by the Senate in place of the attendance for the first year as set out under alternatives 1 and 2 below, provided that the subjects chosen by the candidate are substantially, and to the satisfaction of the Board of the Faculties of Arts, Economic and Social Studies and Law, those required for the course for the first year in classics taken as a single subject.

ALTERNATIVE 1

Attendance in the subjects of the school shall be not less than ten hours a week in the first and second years, and eight hours a week in the third year.

EXAMINATION

Greek prose composition (1 paper)
Latin prose composition *or* linguistic exercise (1 paper)
Greek unprepared translation (1 paper)
Latin unprepared translation (1 paper)
Translation from prescribed Greek books, with questions arising out of them (2 papers)
Translation from prescribed Latin books, with questions arising out of them (2 papers)
General paper (Greek), including questions on Greek literary criticism, antiquities, language and textual transmission
General paper (Latin), including questions on Latin literary criticism, language and metre and on Roman antiquities
Ancient history (1 paper)
Either Ancient philosophy (1 paper)
or History and archaeology of Roman Britain (1 paper)
or Two special subjects, to be chosen as stipulated above (p. C29) (Two 1½-hour papers)
Greek or Latin verse composition may be offered as an *optional* subject in the final examination.

ALTERNATIVE 2

The subject of study and examination shall be:

Latin—as for Latin taken as a single subject, except that candidates must offer a certain number of Greek books under number 2 (Further Latin books).
Greek—as for Greek taken as a single subject, except that (a) candidates must offer a certain number of Latin books under number 2 (Translation from further Greek authors); (b) candidates will be excused the subject numbered 7 (Development of the Greek language); (c) a candidate who has offered Greek art and architecture in the Latin examination under number 7 may not offer the same subject for examination in Greek.

SPECIAL REQUIREMENTS

(a) Candidates are required to attend the one-year course in Greek as prescribed in the regulations for the degree of Bachelor of Arts in two subjects and to pass the prescribed examination in that subject.

(b) Candidates are required to attend a one-year course in ancient history and to pass the prescribed examination in that subject.

Some modification of the special requirements may be made, subject to the approval of the Board of the Faculties of Arts, Economic and Social Studies and Law, for candidates who have distinguished themselves at the advanced level in the examination for the General Certificate of Education.

Economics and History

A scheme of study extending over a period of three years and leading to the degree of Bachelor of Arts in Economics and History.

COURSE REQUIREMENT

For admission to the scheme passes in two approved subjects at advanced level are required, and a third is preferred.

A pass at ordinary level in mathematics is normally required.

FIRST-YEAR EXAMINATION

1. Economics: three papers as follows:
   (a) Economics S1
   (b) Mathematical concepts in economic theory
   (c) British economic history 1750-1914
2. History: two papers selected with the approval of the chairman of the School of History from the following:
   (a) The ancient Near East and Greece
   (b) Ancient Rome and the Roman world
   (c) Medieval Europe
   (d) Early modern Europe (to *c.* 1789)
   (e) The making of the modern world
3. One other approved subject.

FINAL EXAMINATION

1. Economic theory
2. One paper selected from the following:
   Industry and labour
   Comparative economic systems and economic development
   International economics
3. English economic history 1066 to 1914
4. Recent economic history (The British economy since 1914, and American economic history)
5. The history of Britain from earliest times to the end of the 14th century
6. The history of Britain from the end of the 14th century to the end of the 17th century
7. The history of Britain from the end of the 17th century
8. *One* of the following:*
   History of the United States of America from 1783
   Reform and society in Europe 1450 to 1600
   France and Europe in the 17th and 18th centuries
   European social and intellectual history 1815 to 1918
9. A special period or topic in history *or* economic history.

English

Four alternative schemes of study all extending over a period of three years and leading to the degree of Bachelor of Arts in English.

COURSE REQUIREMENT

For admission to any of the four schemes passes in at least two approved subjects at advanced level are required.
One of these passes must be in English literature.
The *second* must be in a language other than English.
A pass in a further subject at advanced level would be an advantage.

SCHEMES OF STUDY

(A) English language and literature
(B) English language and literature
(C) English literature
(D) Modern English.

Under these schemes the first academic year shall include English literature; English language and medieval literature; and *two* of the subjects approved as a first-year or a one-year subject by the Board of the Faculties of Arts, Economic and Social Studies and Law, of which one will normally be a language other than English; four subjects in all.

Qualifying examinations will be held in these subjects at the end of the first year. These must normally be passed by candidates before they proceed to further study in any one of the above specified schemes.

• Not all these subjects will necessarily be offered each year and the list may be varied from time to time.

First Year

See English S1A and S1B, pages C152 and C154.

Second and Third Years

SCHEME A: ENGLISH LANGUAGE AND LITERATURE

In this scheme the emphasis will be on literature. Candidates must attend the following courses:

Second Year

	Hours
1. In English literature:	
The novel	1
Period	1
Prose *or* The uses of spoken English *or* English language and literature in the Renaissance *or* English and Scottish literature 1400 to 1590	1
Criticism	1
Poetry	1
Tutorial class	1
2. In English language and medieval literature:	
Either (a1) Old English literature	1
Middle English literature	1
or (a2) English philology	1
Middle English literature	1
Tutorial class	1

Third Year

1. In English literature:	
Shakespeare	1
The novel	1
Poetry	1
American literature *or* Commonwealth literature *or* selected author	1
Tutorial class	1
2. In English language and medieval literature:	
Chaucer	1
Either (a1) Old English literature	1
Middle English literature	1
or (a2) English philology	1
Middle English literature	1
Tutorial class	1

SCHEME B: ENGLISH LANGUAGE AND LITERATURE

In this scheme, the emphasis will be on language and medieval literature. Candidates will be required to attend the following courses:

1. In English language and medieval literature:	
English philology	2
Modern English grammar and lexicology	1
Old English literature	1
Middle English literature	2

Any *two* of the following:

Comparative philology, Gothic and German philology, Medieval Welsh, Old Icelandic, Modern Icelandic, English dialectology (normally examined by a supervised dissertation), General and English phonetics (taken in the Department of Phonetics), Anglo-Saxon art and archaeology, English palaeography and bibliography, Folk life studies (normally examined by a supervised dissertation), English language and literature in the Renaissance, English and Scottish literature 1400-1590. 2-4

In place of one of the options mentioned above, candidates may elect to take, by arrangement with the professor concerned, Old Saxon and Old High German *or* Old French *or* an additional subject in English literature, *or* to present a dissertation on an approved subject.

	Hours
Tutorial class	1
2. In English literature:	
Poetry	1
Tutorial class	1

Third Year

The courses above continued, with the addition of:

Chaucer	1
Shakespeare	1

SCHEME C: ENGLISH LITERATURE

Candidates will be required to attend the following courses:

Second Year

1. In English literature:	1
Milton	1
The novel	1
Period	1
Prose *or* The uses of spoken English *or* English language and literature in the Renaissance *or* English and Scottish literature, 1400 to 1590	1
Criticism	1
Poetry	1
General lecture	1
Theatre practice	1
Tutorial class	1
2. In English language and medieval literature:	
Middle English literature	1

Third Year

1. In English literature:	1
Shakespeare	1
The novel	1
Drama	1
Poetry	1
American literature *or* Commonwealth literature *or* selected author	1
Tutorial class	1
2. In English language and medieval literature:	
Chaucer	1

SCHEME D: MODERN ENGLISH

Candidates will be required to attend the following courses:

Second Year

Linguistics	1
Phonetics	3
Modern English grammar and lexicology	1
Style and rhetoric	1
English philology	1
The novel	1
Poetry	1
Medieval English literature *or* Special period in 16th-18th-century English literature *or* Folk life studies *or* English dialectology	1
Prose *or* The uses of spoken English *or* English language and literature in the Renaissance *or* English and Scottish literature 1400 to 1590	1
Tutorial class	1

Third Year	Hours
Linguistics	1
Modern English grammar and lexicology	1
English philology	1
The novel	1
Poetry	1
Shakespeare	1
Medieval English literature *or* the study of a special author *or* American literature *or* Commonwealth literature *or* folk life studies *or* English dialectology	1
Tutorial class	1

EXAMINATIONS

SCHEMES A AND C

At the end of their second academic year candidates will sit for the examination for the degree in English, part 1, and will take one paper in each of the following:

1. The period studied
2. Prose *or* The uses of spoken English *or* English language and literature in the Renaissance *or* English and Scottish literature 1400 to 1590

Candidates for Scheme C must also satisfy the examiners that they have attended and worked satisfactorily in

3. Theatre practice
4. Middle English texts and literature
5. They must also prepare an extended essay during the long vacation at the end of the second year.

At the end of their third academic year candidates will sit for the examination for the degree in English, part 2, and will take one paper on each of the following:

Scheme A

1. Shakespeare
2. The novel
3. Criticism
4. Poetry
5. American literature *or* Commonwealth literature *or* selected author
6. Old English *or* English philology
7. Middle English literature
8. Chaucer

Scheme C

1. Shakespeare
2. The novel
3. The drama
4. Criticism
5. Poetry
6. American literature *or* Commonwealth literature *or* selected author
7. Chaucer
8. A dissertation on some aspect of Milton or another author must also be written.

Candidates will also be examined orally.

Candidates taking schemes A or C may also submit an original piece of work either creative or academic, to be taken into consideration when their class is assessed.
The special author in the session 1971-72 will be W. B. Yeats.

SCHEME B

At the end of the third academic year candidates will sit for the final examination for the degree in English and will take one paper on each of the following:

1. English philology
2. Old English literature
3. Middle English literature
4. Chaucer
5. Poetry
6. Shakespeare

7 and 8. *Two* of the following:

Comparative philology *or* Gothic and German philology *or* Medieval Welsh *or* Old Icelandic *or* Modern Icelandic *or* General and English phonetics *or* Anglo-Saxon art and archaeology

or English palaeography and bibliography *or* English language and literature in the Renaissance *or* English and Scottish literature 1400 to 1590. (English dialectology and Folk life studies will both normally be examined by a supervised dissertation).

In place of one of the papers in 7 and 8 above: a paper on Old Saxon and Old High German *or* Old French *or* on an additional subject in English literature.

Candidates will also be required to submit, not later than the last day of the second term, a research exercise of about 5,000 words on a subject relating to modern English grammar and lexicology.

SCHEME D

At the end of their second academic year candidates will sit for the examination for the degree in English, part 1, and will take one paper on each of the following:

1. Style and rhetoric
2. Prose *or* The uses of spoken English *or* English language and literature in the Renaissance *or* English and Scottish literature 1400 to 1590
3. Phonetics

At the end of their third academic year candidates will sit for the examination for the degree in English, part 2, and will take one paper on each of the following:

1. Linguistics
2. English philology
3. The novel
4. Poetry
5. Shakespeare
6. Medieval English literature *or* special period and selected author *or* special period and American literature *or* special period and Commonwealth literature *or* folk life studies *or* English dialectology. The last two options will normally be examined by a supervised dissertation. Candidates will also be examined orally.

Candidates will also be required to submit, not later than the last day of the second term, a research exercise of about 5,000 words on a subject relating to modern English grammar and lexicology.

English and Fine Art

Two schemes of study extending over a period of three years and leading to the degree of Bachelor of Arts in English and Fine Art.

COURSE REQUIREMENT

For admission to the scheme passes in two approved subjects at advanced level are required and a third is preferred.

A pass in English will normally be required.

SCHEME OF STUDY

In the long vacation at the end of the second year candidates must, under the direction of the head of the Department of Fine Art, spend not less than three weeks in London studying original works of art, and submit satisfactory evidence of the thoroughness of this study. The cost of residence in London is not included in the normal fee for an arts scheme.

FIRST-YEAR EXAMINATION

1. English I: two papers as follows:
   (a) Renaissance poetry and drama
   (b) The development of English from the 12th century to 17th century with special reference to the Renaissance (*c.* 1550 to 1620)
2. Fine Art: two papers as follows:
   (a) History of art and architecture from the earliest times until the Renaissance
   (b) Outline of European painting and sculpture from 1300 to the present day
   Oral examination
3. *One* other approved subject.

SCHEME A

SECOND YEAR: PART I EXAMINATION

1. English literature 2: 17th and 18th centuries
2. Shakespeare.

THIRD YEAR: FINAL EXAMINATION

1. English literature 3: 19th and 20th centuries
2. *Option* (Milton *or* Another special author *or* Criticism *or* American literature *or* Commonwealth literature *or* The development of English 1620 to 1860)
3. History of painting, sculpture and architecture—Paper I
4. History of painting, sculpture and architecture—Paper II
5. Historical study of theory and teaching of art—Paper III
6. Oral examination (fine art)
7. Candidates will be required to submit not later than 1 May an essay of 8,000 to 10,000 words on a subject which may relate to English or to fine art or to some topic combining both these subjects. The title should be submitted to the heads of the two departments for approval at the beginning of the third year of the scheme.

SCHEME B

THIRD YEAR: FINAL EXAMINATION

1. History of the English language
2. Old and Middle English literature
3. English literature 2: 17th and 18th centuries
4. English literature 3: 19th and 20th centuries
5. History of painting, sculpture and architecture—Paper I
6. History of painting, sculpture and architecture—Paper II
7. Historical study of theory and teaching of art—Paper III
8. Oral examination (fine art)
9. Candidates will be required to submit not later than 1 May an essay of 8,000 to 10,000 words on a subject which may relate to English or to fine art or to some topic combining both these subjects. The title should be submitted to the heads of the two departments for approval at the beginning of the third year of the scheme.

English and French

Two schemes of study extending over a period of three years (with an additional year spent abroad) and leading to the degree of Bachelor of Arts in English and French.

COURSE REQUIREMENT

For admission to the scheme passes in two approved subjects at advanced level are required, and a third is preferred. *One* of these passes must be in French and a pass in English will normally be required. For students proposing to take Scheme B, a pass in Latin at ordinary level will be required.

SCHEME OF STUDY

After the first year of the course, students will be required to choose between Scheme A (from the Renaissance onwards) or Scheme B (medieval and modern language and literature).

After their second year of study in the University candidates will be required to spend a year in France or a French-speaking country. During this year they will write a long essay (i.e. no. 9 under Final Examination for Scheme A and no. 11 for Scheme B) and submit such other written work as may be required by the two departments. If possible, arrangements will be made for students to take a post as *assistant*. If such arrangements cannot be made, students will be required to spend the academic year following a course of study at a French-speaking university approved by the heads of both departments. The cost of residence abroad is not included in the normal fee for an arts scheme.

FIRST-YEAR EXAMINATION

1. English I: two papers as follows:
   (a) Renaissance poetry and prose
   (b) The development of English from the 12th century to the 17th century with special reference to the Renaissance (*c.* 1550 to 1620)
2. French: an oral examination in French and two papers as follows:
   (a) French language
   (b) 20th-century French literature and institutions
3. One other approved subject.

SCHEME A

SECOND YEAR: PART I EXAMINATION

1. English literature 2: 17th and 18th centuries (3-hour paper)
2. Shakespeare (3-hour paper)
3. 18th-century French thought (one 1½-hour paper) (to be taken at the end of the second term).

THIRD YEAR: FINAL EXAMINATION

The final examination will consist of an oral examination in French and the following papers:

1. English literature 3: 19th and 20th centuries (3-hour paper)
2. *Option* (Milton *or* Another special author *or* Criticism *or* American literature *or* Commonwealth literature *or* The development of English 1620 to 1860) (3-hour paper)
3. Translation into French (3-hour paper)
4. Translation into English and essay in French (3-hour paper)
5. 16th-century French literature (1½-hour paper)
6. 19th-century French poetry (1½-hour paper)
7. 19th-century French novel (1½-hour paper)
8. 17th-century French literature (final-year special subject 1½-hour paper)
9. Candidates will be required to submit not later than 1 May in the final year an essay of 8,000 to 10,000 words on a subject whose title should be submitted to the heads of the two departments for approval at the end of the second year of the scheme.

SCHEME B

SECOND YEAR: PART I EXAMINATION

Candidates taking Scheme B will be examined at the end of the summer term of the second year in 17th-century French literature (1½-hour paper).

THIRD YEAR: FINAL EXAMINATION

The final examination will consist of an oral examination in French and the following papers:

1. History of English language (3-hour paper)
2. Old and Middle English literature (3-hour paper)
3. English literature 2: 17th and 18th centuries (3-hour paper)
4. English literature 3: 19th and 20th centuries (3-hour paper)
5. Translation into French (3-hour paper)
6. Translation into English and essay in French (3-hour paper)
7. Old French (1½-hour paper)
8. Medieval French literature (1½-hour paper)
9. 16th-century French literature (1½-hour paper)
10. Special subject in French (1½-hour paper)
11. Candidates will be required to submit not later than the beginning of the first term of the final year an essay of 8,000 to 10,000 words on a medieval subject approved by the heads of both departments.

English and Greek Civilisation

Two schemes of study extending over a period of three years and leading to the degree of Bachelor of Arts in English and Greek Civilisation.

COURSE REQUIREMENT

For admission to the scheme passes in two approved subjects at advanced level are required and a third is preferred. A pass in English will normally be required. A pass at ordinary level in a language other than English is required, and some knowledge of Greek is desirable, but not essential, before entering upon the first year of study. Students beginning Greek will receive three hours' tuition a week in Greek language; students with Greek will receive two hours' tuition a week.

FIRST-YEAR EXAMINATION

1. English I: two papers as follows:
   (a) Renaissance poetry and drama
   (b) The development of English from the 12th century to the 17th century with special reference to the Renaissance (*c.* 1550 to 1620)
2. Greek civilisation: two papers as follows:
   (a) Greek language including prepared and unprepared translation
   (b) Greek civilisation
3. One other approved subject.

SCHEME A

SECOND YEAR: PART I EXAMINATION

1. English literature 2: 17th and 18th centuries
2. Shakespeare.

THIRD YEAR: FINAL EXAMINATION

1. English literature 3: 19th and 20th centuries
2. *Option* (Milton *or* Another special author *or* Criticism *or* American literature *or* Commonwealth literature *or* The development of English 1620 to 1860)
3. Homer; Greek tragedy
4. Greek historical writing; Greek art
5. General paper
6. Translation from prescribed texts
7. Candidates will be required to submit not later than 1 May an essay of 8,000 to 10,000 words on a subject which may relate to English or to Greek civilisation or to some topic combining both these subjects. The title should be submitted to the chairman of the School of English and the head of the Department of Greek for approval at the beginning of the third year of the scheme.

SCHEME B

THIRD YEAR: FINAL EXAMINATION

1. History of the English language
2. Old and Middle English literature
3. English literature 2: 17th and 18th centuries
4. English literature 3: 19th and 20th centuries
5. Homer; Greek tragedy
6. Greek historical writing; Greek art
7. General paper
8. Translation from prescribed texts
9. Candidates will be required to submit not later than 1 May an essay of 8,000 to 10,000 words on a subject which may relate to English or to Greek civilisation or to some topic combining both these subjects. The title should be submitted to the chairman of the School of English and the head of the Department of Greek for approval at the beginning of the third year of the scheme.

English and Hebrew

Three schemes of study extending over a period of three years and leading to the degree of Bachelor of Arts in English and Hebrew.

COURSE REQUIREMENT

For admission to the scheme passes in two approved subjects at advanced level are required and a third is preferred. A pass in English will normally be required.

SCHEME OF STUDY

Candidates will normally be required to spend a period of at least one month's duration during the summer vacation following their second year of study in attendance at a course in a recognised institution of learning in Israel. The cost of residence abroad is not included in the normal fee for an arts scheme.

FIRST-YEAR EXAMINATION

1. English I: two papers as follows:
   (a) Renaissance poetry and drama
   (b) The development of English from the 12th century to the 17th century with special reference to the Renaissance (*c.* 1550-1720)
2. Hebrew: two papers as follows:
   (a) Grammar and translation
   (b) Prescribed texts and history
3. One other approved subject.

SCHEME A

SECOND YEAR: PART I EXAMINATION

1. English literature 2: 17th and 18th centuries
2. Shakespeare

THIRD YEAR: FINAL EXAMINATION

1. English literature 3: 19th and 20th centuries
2. *Option* (Milton *or* Another special author *or* Criticism *or* American literature *or* Commonwealth literature *or* The development of English 1620 to 1860)
3. Hebrew: Old Testament: prose and poetry
4. Hebrew: post-biblical to modern
5. Translation into classical and modern Hebrew, with questions on grammar and style
6. Hebrew history and the historical development of the language
7. Candidates will be required to submit not later than 1 May an essay of 8,000 to 10,000 words on a subject which may relate to English or to Hebrew or to some topic combining both these subjects. The title should be submitted to the heads of the two departments for approval at the beginning of the third year of the scheme.

SCHEME B

THIRD YEAR: FINAL EXAMINATION

1. History of the English language
2. Old and Middle English literature
3. English literature 2: 17th and 18th centuries
4. English literature 3: 19th and 20th centuries
5. Hebrew: Old Testament: prose and poetry
6. Hebrew: post-biblical to modern
7. Translation into classical and modern Hebrew, with questions on grammar and style
8. Hebrew history and the historical development of the language
9. Candidates will be required to submit not later than 1 May an essay of 8,000 to 10,000 words on a subject which may relate to English or to Hebrew or to some topic combining both these subjects. The title should be submitted to the heads of the two departments for approval at the beginning of the third year of the scheme.

English and History

Two schemes of study extending over a period of three years and leading to the degree of Bachelor of Arts in English and History.

COURSE REQUIREMENT

For admission to the scheme passes in two approved subjects at advanced level are required and a third is preferred. A pass in English will normally be required.

FIRST-YEAR EXAMINATION

1. English I: two papers as follows:
   (a) Renaissance poetry and drama
   (b) The development of English from the 12th century to the 17th century with special reference to the Renaissance (*c.* 1550 to 1620)
2. History: two papers selected with the approval of the chairman of the School of History from the following:
   (a) The ancient Near East and Greece
   (b) Ancient Rome and the Roman world
   (c) Medieval Europe
   (d) Early modern Europe (to *c.* 1789)
   (e) The making of the modern world
3. One other approved subject.

SCHEME A

FINAL EXAMINATION

1. English literature 2: 17th and 18th centuries
2. Shakespeare
3. English literature 3: 19th and 20th centuries
4. American literature from Emerson to the present day
5. History of Britain from the end of the 14th century to the end of the 17th century
6. History of Britain from the end of the 17th century
7. History of the United States of America from 1783
8. *One* of the following:*
   History of political thought
   History of scientific thought
   Reform and society in Europe 1450 to 1600
   France and Europe in the 17th and 18th centuries
   European social and intellectual history 1815 to 1918
9. An essay of 8,000 to 10,000 words on a subject relating to one of the candidate's prescribed fields of study, chosen with the advice of the department concerned, to be submitted not later than 1 May.

SCHEME B

FINAL EXAMINATION

1. History of the English language
2. Old and Middle English literature
3. English literature 2: 17th and 18th centuries
4. English literature 3: 19th and 20th centuries
5. History of Britain from earliest times to the end of the 14th century
6. History of Britain from the end of the 14th century to the end of the 17th century
7. History of Britain from the end of the 17th century

* Not all of these subjects will necessarily be offered each year, and the list may be varied from time to time.

8. *One* of the following:*
   History of political thought
   European towns 950 to 1250
   The Church in the later Middle Ages
   Reform and society in Europe 1450 to 1600
   France and Europe in the 17th and 18th centuries
9. An essay of 8,000 to 10,000 words on a subject relating to one of the candidate's prescribed fields of study, chosen with the advice of the department concerned, to be submitted not later than 1 May.

English and Italian

Two schemes of study leading to the degree of Bachelor of Arts in English and Italian, one extending over three years and the other, for students with no previous knowledge of Italian, extending over four years. In each scheme a period will be spent abroad.

COURSE REQUIREMENT

For admission to either scheme of study passes in two approved subjects at advanced level are required, and a third is preferred. In the case of the three-year scheme *one* of the passes should normally be in Italian.

In the case of the four-year scheme, *one* pass must be in *either* French *or* Spanish, together with a pass in Latin at ordinary level.

A pass in English at advanced level will normally be required.

SCHEME OF STUDY

Except with the special permission of the two departments concerned, the third term of the second year of the three-year scheme, or the third term of the third year of the four-year scheme, will be spent in Italy attending an approved course of study; alternatively, a year will be spent in residence in Italy between the second and third year of the three-year scheme or between the third and fourth year of the four-year scheme. The cost of residence abroad is not included in the normal fee for an arts scheme.

THREE-YEAR SCHEME

FIRST-YEAR EXAMINATION

1. English I: two papers as follows:
   (a) Renaissance poetry and drama
   (b) The development of English from the 12th century to the 17th century with special reference to the Renaissance (*c.* 1550 to 1620)
2. Italian: an oral examination in Italian and two papers as follows:
   (a) Italian translation and composition
   (b) Italian literature and prescribed texts
3. One other approved subject.

SCHEME A

SECOND YEAR: PART I EXAMINATION

(The examination will take place in September)

1. English literature 2: 17th and 18th centuries
2. Shakespeare

THIRD YEAR: FINAL EXAMINATION

The final examination shall consist of an oral examination in Italian and the following papers:

1. English literature 3: 19th and 20th centuries

* Not all of these subjects will necessarily be offered each year, and the list may be varied from time to time.

2. *Option* (Milton *or* Another special author *or* Criticism *or* American literature *or* Commonwealth literature *or* The development of English 1620 to 1860)
3. Italian translation and composition
4. Essay in Italian
5. Italian literature and civilisation to 1400
6. Literature and civilisation of the Italian Renaissance
7. Candidates will be required to submit not later than 1 May an essay of 8,000 to 10,000 words on a subject which may relate to English or to Italian or to some topic combining both these subjects. The title should be submitted to the heads of the two departments for approval.

SCHEME B

THIRD YEAR: FINAL EXAMINATION

The final examination shall consist of an oral examination in Italian and the following papers:
1. History of the English language
2. Old and Middle English literature
3. English literature 2: 17th and 18th centuries
4. English literature 3: 19th and 20th centuries
5. Italian translation and composition
6. Essay in Italian
7. Italian literature and civilisation to 1400
8. Literature and civilisation of the Italian Renaissance
9. Candidates will be required to submit not later than 1 May an essay of 8,000 to 10,000 words on a subject which may relate to English or to Italian or to some topic combining both these subjects. The title should be submitted to the heads of the two departments for approval.

FOUR-YEAR SCHEME

FIRST-YEAR EXAMINATION

1. English I: two papers as follows:
   (a) Renaissance poetry and drama
   (b) The development of English from the 12th century to the 17th century with special reference to the Renaissance (*c.* 1550 to 1620)
2. Italian: an oral examination in Italian and two papers as follows:
   (a) Italian composition, translation and essay
   (b) Italian literature and prescribed texts
3. One other approved subject.

SCHEME A

SECOND YEAR: PART I EXAMINATION

1. English literature 2: 17th and 18th centuries
2. Shakespeare

ITALIAN QUALIFYING EXAMINATION*

As for the first year of three-year scheme.

FOURTH YEAR: FINAL EXAMINATION

As for third year of three-year Scheme A.

SCHEME B

SECOND YEAR: ITALIAN QUALIFYING EXAMINATION*

As for first year of three-year Scheme B.

FOURTH YEAR: FINAL EXAMINATION

As for third year of three-year Scheme B.

* Candidates will be required to pass the second-year examination in Italian in order to proceed to the third and fourth years of the scheme.

English and Latin

Two schemes of study leading to the degree of Bachelor of Arts in English and Latin. one extending over three years and the other, for students with no previous knowledge of Latin, extending over four years.
At the end of the first year the English component of the course offers a choice between an exclusively literary option (Scheme A) and one in which both language and literature are studied (Scheme B).

COURSE REQUIREMENT
For admission to either scheme of study passes in two approved subjects at advanced level are required, and a third is preferred.
In the case of the three-year scheme *one* of the passes should be in Latin.
In the case of the four-year scheme, *one* pass must normally be in *either* French *or* Spanish.
A pass in English at advanced level will normally be required.

THREE-YEAR SCHEME

FIRST-YEAR EXAMINATION
1. English I: two papers as follows:
   (a) Renaissance poetry and drama
   (b) The development of English from the 12th century to the 17th century with special reference to the Renaissance (*c.* 1550 to 1620)
2. Latin: two papers as follows:
   (a) Latin language, including unprepared translation
   (b) Latin literature and prescribed texts
3. One other approved subject.

SCHEME A
SECOND YEAR: PART I EXAMINATION
1. English literature 2: 17th and 18th centuries
2. Shakespeare

THIRD YEAR: FINAL EXAMINATION
1. English literature 3: 19th and 20th centuries
2. *Option* (Milton *or* Another special author *or* Criticism *or* American literature *or* Commonwealth literature *or* The development of English 1620 to 1860)
3. Latin language, including unprepared translation
4. Latin literature: prescribed books I
5. Latin literature: prescribed books II (which may include books from the post-classical period)
6. *Two* of the following:*
   (a) Latin tragedy and comedy
   (b) Latin epic
   (c) Latin pastoral poetry
   (d) Latin satire
   (e) An approved period or topic of Roman history
   (f) An introduction to Graeco-Roman philosophy
   (g) An approved special subject
7. Latin general paper.
8. Candidates will be required to submit not later than 1 May an essay of 4,000 to 5,000 words on an approved subject in the field of English. With the consent of the heads of both departments concerned, candidates may offer in place of papers 7 and 8 an essay of 8,000 to 10,000 words in English on an approved subject in English or Latin or linking the two fields.

* Not all of these subjects will necessarily be offered each year, and the list may be varied from time to time.

SCHEME B

FINAL EXAMINATION

1. History of the English language
2. Old and Middle English literature
3. English literature 2: 17th and 18th centuries
4. English literature 3: 19th and 20th centuries
5. Latin language, including unprepared translation
6. Latin literature: prescribed books I
7. Latin literature: prescribed books II (which may include texts from the post-classical period)
8. *Two* of the following:*
   (a) Latin tragedy and comedy
   (b) Latin epic
   (c) Latin pastoral poetry
   (d) Latin satire
   (e) An approved period or topic of Roman history
   (f) An introduction to Graeco-Roman philosophy
   (g) An approved special subject
9. Latin general paper
10. Candidates will be required to submit not later than 1 May an essay of 4,000 to 5,000 words on an approved subject in the field of English. With the consent of the heads of both departments concerned, candidates may offer in place of papers 9 and 10 an essay of 8,000 to 10,000 words in English on an approved subject in English or Latin or linking the two fields.

FOUR-YEAR SCHEME

FIRST-YEAR EXAMINATION

1. English I: two papers as follows:
   (a) Renaissance poetry and drama
   (b) The development of English from the 12th century to the 17th century with special reference to the Renaissance (*c.* 1550 to 1620)
2. Latin: two papers as follows:
   (a) Unprepared translation and linguistic exercise
   (b) Translation from prescribed Latin texts
3. One other approved subject.

SCHEME A

SECOND YEAR: LATIN QUALIFYING EXAMINATION†

As for the first year of the three-year scheme.

THIRD YEAR: PART I EXAMINATION

1. English literature 2: 17th and 18th centuries
2. Shakespeare

FOURTH YEAR: FINAL EXAMINATION

As for the third year of the three-year scheme A.

SCHEME B

SECOND YEAR: LATIN QUALIFYING EXAMINATION†

As for the first year of the three-year scheme.

FOURTH YEAR: FINAL EXAMINATION

As for the final examination of the three-year Scheme B.

* Not all of these subjects will necessarily be offered each year, and the list may be varied from time to time.
† Candidates will be required to pass the second-year examination in Latin in order to proceed to the third and fourth years of the scheme.

English and Music

Two schemes of study extending over a period of three years and leading to the degree of Bachelor of Arts in English and Music.

COURSE REQUIREMENT

For admission to the scheme passes in two approved subjects at advanced level are required and a third is preferred. A pass in English will normally be required and another should preferably be in music.

FIRST-YEAR EXAMINATION

1. English I: two papers as follows:
   (a) Renaissance poetry and drama
   (b) The development of English from the 12th century to the 17th century with special reference to the Renaissance (*c.* 1550-1620)
2. Music (two papers):
   (a) Harmony and counterpoint
   (b) History of music 700 to 1720
   Practical training
3. One other approved subject

SCHEME A

SECOND YEAR: PART I EXAMINATION

1. English literature 2: 17th and 18th centuries
2. Shakespeare

THIRD YEAR: FINAL EXAMINATION

1. English literature 3: 19th and 20th centuries
2. *Option* (Milton *or* Another special author *or* Criticism *or* American literature *or* Commonwealth literature *or* The development of English 1620-1860)
3. History of music since 1880
4 and 5. Stylistic studies
6. Special subject (music)
7. Acoustics*

Candidates will be required to submit not later than 1 May an essay of 8,000 to 10,000 words on a subject which may relate to English literature or to music or to some topic combining both these subjects. The title should be submitted to the heads of the two departments for approval at the beginning of the third year of the scheme.

SCHEME B

FINAL EXAMINATION

1. History of the English language
2. Old and Middle English literature
3. English literature 2: 17th and 18th centuries
4. English literature 3: 19th and 20th centuries
5. History of music since 1880
6 and 7. Stylistic studies
8. Special subject (music)
9. Acoustics*
10. Candidates will be required to submit not later than 1 May an essay of 8,000 to 10,000 words on a subject which may relate to English or to music or to some topic combining both these subjects. The title should be submitted to the heads of the two departments for approval at the beginning of the third year of the scheme.

* The acoustics course is given in alternate years. Candidates will take the paper in acoustics in the year in which they attend the course.

English and Portuguese

Two schemes of study extending over a period of three years (with an additional year spent abroad) and leading to the degree of Bachelor of Arts in English and Portuguese.

COURSE REQUIREMENT

For admission to the scheme passes in English and a second subject at advanced level in a General Certificate of Education or equivalent examination will normally be required, and a pass in a third subject at advanced level is preferred.

SCHEME OF STUDY

Candidates will normally be required to spend one year in a Portuguese-speaking country between the second and third years of these schemes. The cost of residence abroad is not included in the normal fee for an arts scheme.

FIRST-YEAR EXAMINATION

1. English I: two papers as follows:
   (a) Renaissance poetry and drama
   (b) The development of English from the 12th century to the 17th century with special reference to the Renaissance (*c.* 1550 to 1620)
2. Portuguese: an oral examination in Portuguese and two papers as follows:
   (a) Portuguese language
   (b) Prescribed books

In addition, students will attend essay tutorials on the literature studied, and the work done for these will be taken into account.

3. One other approved subject.

SCHEME A

SECOND YEAR: PART I EXAMINATION

1. English literature 2: 17th and 18th centuries
2. Shakespeare
3. O Quinhentismo

THIRD YEAR: FINAL EXAMINATION

1. English literature 3: 19th and 20th centuries
2. *Option* (Milton *or* Another special author *or* Criticism *or* American literature *or* Commonwealth literature *or* The development of English 1620 to 1860)
3. Translation into Portuguese
4. Translation from Portuguese and essay in Portuguese
5. The 19th-century Portuguese novel
6. Brazilian literature

In addition, candidates will be required to present by 1 December in their final year an essay of some 8,000 words on an approved topic within the fields of English or Portuguese, or combining both subjects; and will be required to present themselves for an oral examination in Portuguese.

SCHEME B

SECOND YEAR: PART I EXAMINATION

1. O Quinhentismo

THIRD YEAR: FINAL EXAMINATION

1. History of the English language
2. Old and Middle English literature
3. English literature: 17th and 18th centuries
4. English literature: 19th and 20th centuries

5. Translation into Portuguese
6. Translation from Portuguese and essay in Portuguese
7. The 19th-century Portuguese novel
8. Brazilian literature

In addition, candidates will be required to present by 1 December in their final year an essay (in English, about 8,000 words) on an approved topic within the fields of English or Portuguese, or combining both subjects; and will be required to present themselves for an oral examination in Portuguese.

English and Religious Studies

Two schemes of study extending over a period of three years and leading to the degree of Bachelor of Arts in English and Religious Studies.

COURSE REQUIREMENT

For admission to the scheme passes in two approved subjects at advanced level are required, and a third is preferred. A pass in English will normally be required.

FIRST-YEAR EXAMINATION

1. English I: two papers as follows:
   (a) Renaissance poetry and drama
   (b) The development of English from the 12th century to the 17th century with special reference to the Renaissance (*c.* 1550 to 1620)
2. Religious studies: two papers in Philosophy and history of religion
3. One other approved subject.

SCHEME A

SECOND YEAR: PART I EXAMINATION

1. English literature 2: 17th and 18th centuries
2. Shakespeare

THIRD YEAR: FINAL EXAMINATION

1. English literature 3: 19th and 20th centuries
2. *Option* (Milton *or* Criticism *or* Another special author *or* American literature *or* Commonwealth literature *or* The development of English 1620 to 1860)

and any four of papers 3 to 8:

3. History of religion II
4. History of religion III
5. Philosophy of religion
6. Ethics
7. Church history
8. Christian theology
9. Candidates will be required to submit not later than 1 May an essay of 8,000 to 10,000 words on a subject which may relate to religious studies or English or to some topic combining both these subjects. The title should be submitted to the heads of the two departments for approval at the beginning of the third year of the scheme.

SCHEME B

FINAL EXAMINATION

1. History of the English language
2. Old and Middle English literature
3. English literature 2: 17th and 18th centuries
4. English literature 3: 19th and 20th centuries

and any *four* of papers 5 to 10:

5. History of religion II
6. History of religion III
7. Philosophy of religion
8. Ethics
9. Church history
10. Christian theology
11. Candidates will be required to submit not later than 1 May an essay of 8,000 to 10,000 words on a subject which may relate to religious studies or English or to some topic combining both these subjects. The title should be submitted to the heads of the two departments for approval at the beginning of the third year of the scheme.

English and Russian

Two schemes of study leading to the degree of Bachelor of Arts in English and Russian, one extending over three years and the other extending over four years.

COURSE REQUIREMENT

For admission to the scheme passes in two approved subjects at advanced level are required and a third is preferred. A pass in English will normally be required. For admission to the three-year scheme another of these passes must be in Russian. Candidates with little or no previous knowledge of Russian may be accepted for the four-year scheme. Students may also be accepted on transfer from the first year of the four-year scheme in Russian Studies.

SCHEMES OF STUDY

Candidates will normally be required to spend a period of not less than three months in the U.S.S.R., or a comparable period in an Eastern European country at an appropriate point in the scheme. The cost of residence is not included in the normal fee for an arts scheme.

FIRST-YEAR EXAMINATION (three-year scheme)

1. English I: two papers as follows:
   (a) Renaissance poetry and drama
   (b) The development of English from the 12th century to the 17th century with special reference to the Renaissance (*c.* 1550 to 1620)
2. Russian: two papers as follows:
   (a) Russian translation and composition
   (b) Russian literature and prescribed texts
3. One other approved subject.

SCHEME A

SECOND YEAR: PART I EXAMINATION

1. English literature 2: 17th and 18th centuries
2. Shakespeare.

THIRD YEAR: FINAL EXAMINATION

1. English literature 3: 19th and 20th centuries
2. *Option* (Milton *or* Another special author *or* Criticism *or* American literature *or* Commonwealth literature *or* The development of English 1620 to 1860)
3. Russian translation and composition
4. Essay in Russian
5. Tolstoy and Dostoevsky
6. *Either* the Russian novel, *or* Drama (Russian), *or* Turgenev and Chekhov, *or* Russian poetry *or* the Soviet novel.
7. Candidates will be required to submit not later than 1 May an essay of 8,000 to 10,000 words on a subject which may relate to English or to Russian or to some topic combining both these subjects. The title should be submitted to the heads of the two departments for approval.

SCHEME B

FINAL EXAMINATION

1. History of the (English) language
2. Old and Middle English literature
3. English literature 2: 17th and 18th centuries
4. English literature 3: 19th and 20th centuries
5. Russian translation and composition
6. Essay in Russian
7. Tolstoy and Dostoevsky
8. *Either* the Russian novel, *or* Drama (Russian), *or* Turgenev and Chekhov, *or* Russian poetry *or* the Soviet novel.
9. Candidates will be required to submit not later than 1 May an essay of 8,000 to 10,000 words on a subject which may relate to English or to Russian or to some topic combining both these subjects. The title should be submitted to the heads of the two departments for approval.

English and Spanish

Two schemes of study extending over a period of three years (with an additional period spent abroad) and leading to the degree of Bachelor of Arts in English and Spanish.

COURSE REQUIREMENT

For admission to the scheme a pass in Spanish at the advanced level in a General Certificate of Education or equivalent examination is required, a pass in English at advanced level will normally also be required, and a pass in a third subject at advanced level is preferred.

SCHEME OF STUDY

Candidates will normally be required to spend one year in a Spanish-speaking country between the second and third years of these schemes. With the permission of the heads of both departments they may be allowed, in lieu of this requirement, to spend a period of at least two months in Spain during the long vacation of either their first or second year, this period to include attendance at approved courses of study. The cost of residence abroad is not included in the normal fee for an arts scheme.

FIRST-YEAR EXAMINATION

1. English I: two papers as follows:
   (a) Renaissance poetry and drama
   (b) The development of English from the 12th century to the 17th century with special reference to the Renaissance (*c.* 1550 to 1620)

2. Spanish: an oral examination and two papers as follows:
   (a) Spanish language
   (b) Modern literature

In addition, students will attend selected essay tutorial groups during the year, and the work done for these will be taken into account.

3. One other approved subject.

SCHEME A

SECOND YEAR: PART I EXAMINATION

1. English literature 2: 17th and 18th centuries
2. Shakespeare
3. Spanish Golden Age literature.

THIRD YEAR: FINAL EXAMINATION

1. English literature 3: 19th and 20th centuries
2. *Option* (Milton *or* Another special author *or* Criticism *or* American literature *or* Commonwealth literature *or* The development of English 1620 to 1860)
3. Translation into Spanish
4. Translation from Spanish and essay (Spanish)
5. *One* of the following options:
   (a) Spanish-American literature *or* (b) Any other final-year course (Spanish) which it may be possible from time to time to offer, with the approval of the heads of both departments
6. Special subject (Spanish literature): one sessional course or two semester courses
7. In addition, candidates will be required to present by 1 December in their final year an essay (in English, about 8,000 words) on an approved topic within the fields of English or Spanish, or combining both subjects; and will be required to present themselves for an oral examination in Spanish.

SCHEME B

SECOND YEAR: PART I EXAMINATION

1. Spanish Golden Age literature

THIRD YEAR: FINAL EXAMINATION

1. History of the English language
2. Old and Middle English literature
3. English literature 2: 17th and 18th centuries
4. English literature 3: 19th and 20th centuries
5. Translation into Spanish
6. Translation from Spanish and essay (Spanish)
7. *One* of the following options:
   (a) Spanish-American literature *or* (b) Any other main course (Spanish) which it may be possible from time to time to offer, with the approval of the heads of both departments.
8. Special subject (Spanish literature): one sessional course or two semester courses
9. In addition, candidates will be required to present by 1 December in their final year an essay (in English, about 8,000 words) on an approved topic within the fields of English or Spanish, or combining both subjects; and will be required to present themselves for an oral examination in Spanish.

English and Theology

Two schemes of study extending over a period of three years and leading to the degree of Bachelor of Arts in English and Theology.

COURSE REQUIREMENT

For admission to the scheme passes in two approved subjects at advanced level are required, and a third is preferred. A pass in English will normally be required.

FIRST-YEAR EXAMINATION

1. English I: two papers as follows:
   (a) Renaissance poetry and drama
   (b) The development of English from the 12th century to the 17th century with special reference to the Renaissance (*c.* 1550 to 1620)
2. Theology: two papers as follows:
   (a) New Testament Greek I
   (b) History and religion of Israel to the beginning of the Exile, with an introduction to the relevant literature of the Old Testament
3. One other approved subject.

SCHEME A

SECOND YEAR: PART I EXAMINATION

1. English literature 2: 17th and 18th centuries
2. Shakespeare

THIRD YEAR: FINAL EXAMINATION

1. English literature 3: 19th and 20th centuries
2. *Option* (Milton *or* Another special author *or* Criticism *or* American literature *or* Commonwealth literature *or* The development of English 1620 to 1860)
3. Old Testament (with English text: in 1972 Job, Jeremiah 1-20; *or* Hebrew: in 1972 Deuteronomy 1-7, Isaiah 46-53)
4. New Testament (with prescribed text in Greek: in 1972 St. Matthew)
5. Biblical and historical theology *or* Outlines of Christian theology
6. *Either* Philosophy of religion *or* History of religion *or* Church history
7. Candidates will be required to submit not later than 1 May an essay of 8,000 to 10,000 words on a subject which may relate to English or theology or to some topic combining both these subjects. The title should be submitted to the heads of the two departments for approval at the beginning of the third year of the scheme.

SCHEME B

FINAL EXAMINATION

1. History of the English language
2. Old and Middle English literature
3. English literature 2: 17th and 18th centuries
4. English literature 3: 19th and 20th centuries
5. Old Testament (with English text: in 1972 Job, Jeremiah 1-20; *or* Hebrew: in 1972 Deuteronomy 1-7, Isaiah 46-53)
6. New Testament (with prescribed text in Greek: in 1972 St. Matthew)
7. Biblical and historical theology *or* Outlines of Christian theology
8. *Either* Philosophy of religion *or* History of religion *or* Church history.

In addition, candidates will be required to submit not later than 1 May an essay of 8,000 to 10,000 words on a subject which may relate to English or theology or to some topic combining both these subjects. The title should be submitted to the heads of the two departments for approval at the beginning of the third year of the scheme.

English Literature and Philosophy

A scheme of study extending over a period of three years and leading to the degree of Bachelor of Arts in English Literature and Philosophy.

COURSE REQUIREMENT

For admission to the scheme passes in two approved subjects at advanced level are required and a third is preferred. A pass in English will normally be required and another should preferably be in a modern language.

FIRST-YEAR EXAMINATION

1. English I: two papers as follows:
   (a) Renaissance poetry and drama
   (b) The development of English from the 12th century to the 17th century with special reference to the Renaissance (*c.* 1550 to 1620)
2. Philosophy: two papers as follows:
   (a) Introduction to philosophy
   (b) Reason and argument
3. One other approved subject.

SECOND YEAR: PART I EXAMINATION

1. English literature 2: 17th and 18th centuries
2. Shakespeare

THIRD YEAR: PART II EXAMINATION

1. English literature 3: 19th and 20th centuries
2. Critics and criticism
3. The history of ideas, in its relation to English literature
4. Philosophical problems
5. History of modern philosophy (candidates will be required to submit three essays by the end of the long vacation following the end of the second year)
6. Ethics *or* Political and social philosophy

In addition candidates will be required *either* to submit an essay of not more than 10,000 words on a subject which may relate to English literature or to philosophy or to some theme combining both these subjects, *or* to take an examination in an approved special subject.
Candidates may also be required to present themselves for an oral examination.

Fine Art

Three schemes of study extending over a period of four years and leading to the degree of Bachelor of Arts in Fine Art.

COURSE REQUIREMENT

For admission to any of the schemes passes in at least two approved subjects other than art at advanced level are required.
These passes may be in any approved arts subjects. It is desirable, however, that one of these should be in a language other than English.
Before being accepted all candidates must submit a portfolio of practical work.*

SCHEMES OF STUDY

SCHEME A: FINE ART

First Year

1. History of art including
   (a) An outline of art and architecture from the earliest times to 1300†
   (b) An outline of European painting and sculpture from 1300 to the present day (4 lectures or tutorials a week)†
2. Studio work in the practice of the fine arts, as prescribed by the head of the department.
3. One approved subject in the Faculty of Arts.

* When making their application forms to U.C.C.A. candidates should write for details of the Portfolio Inspection Scheme, addressing themselves to that university which stands highest in their order of preference.
† These courses form the course in fine art as a subsidiary subject for a first degree.

Second Year

1. European painting and sculpture from 1780 to the present day (2 lectures a week)*
2. European architecture from 1300 to the present day (1 lecture a week)*
3. A detailed study of two designated artists (1 lecture a week)*
4. Studio work as prescribed by the head of the department
5. Methods and materials in the fine arts (1 lecture or tutorial a week)
6. Practical art criticism (1 lecture a week).

In the long vacation at the end of the second year, candidates must also, under the direction of the head of the Department of Fine Art, spend not less than six weeks in London studying original works of art; and submit satisfactory evidence of the thoroughness of this study. The cost of residence in London is not included in the normal fee for an arts scheme.

Third Year

1. Detailed study of a special period in the fine arts, chosen from among those listed below, subject to the approval of the head of the department (2 lectures or tutorials a week):*
   (a) 1475-1526 in Europe
   (b) 1500-1576 in Venice
   (c) 1580-1640 in Rome
   (d) 1600-1640 in the Low Countries
   (e) 1625-1675 in Holland
   (f) 1730-1792 in Britain
   (g) 1792-1840 in Britain
   (h) 1785-1840 in Europe
   (i) 1860 -1906 in France and Britain
   (j) 1906-1939 in Europe
   (k) 1945 to the present in Europe and America.

   Other similar periods may from time to time be approved. Not all the subjects in this list will necessarily be available in any one year.
2. Detailed study of two designated artists (1 lecture a week)*
3. Study of two books chosen from among those listed below, subject to the approval of the head of the department (1 lecture or tutorial a week)

   L. Ghiberti, *Commentaries*
   L. B. Alberti, *On Painting*
   Vasari, *Works* (selected passages)
   Michelangelo, *Poems* and *Letters* (selected passages)
   M. Conway, *The Literary Remains of Albrecht Dürer*
   Hogarth, *Analysis of Beauty* and *Autobiographical Notes*
   C. R. Leslie, *Memoirs of the Life of John Constable*
   E. Delacroix, *Journals* (selected passages)
   V. van Gogh, *Letters* (selected passages)
   Cézanne, *Letters*

   Other texts may from time to time be approved.
4. Methods and materials of the fine arts (2 lectures or tutorials a week)
5. Practical work as prescribed by the head of the department.

In the long vacation at the end of the third year, candidates must also, under the direction of the head of the Department of Fine Art, spend not less than six weeks studying original works of art at approved centres abroad; and submit satisfactory evidence of the thoroughness of this study. The cost of residence abroad is not included in the normal fee for an arts scheme.

Fourth Year

1. Theories and institutions of European art (1 lecture or tutorial a week)*
2. Practical work as prescribed by the head of the department.

*These courses form the course in fine art as a subsidiary subject for a first degree.

SCHEME B: FINE ART WITH FILM

Students may opt for this scheme at the end of their second year.

First and Second Years
As for Scheme A.

Third Year
1. Detailed study of two designated artists (1 lecture a week)
2. History of photography and cinematography (1 lecture a week)
3. Techniques of film and television (2 lectures or tutorials a week)
4. Study of two books from among those listed above for Scheme A, one of which may with the permission of the head of the department be replaced with a comparable source book for the history of the film (1 lecture or tutorial a week)
5. Practical work as prescribed by the head of the department.

In the long vacation, at the end of the third year, candidates must also, under the direction of the head of the Department of Fine Art, spend not less than six weeks studying original works of art at approved centres abroad, and submit satisfactory evidence of the thoroughness of this study. The cost of residence abroad is not included in the normal fee for an arts scheme.

Fourth Year
1. The critical study of film and television
2. Practical work as prescribed by the head of the department.

SCHEME C: DECORATIVE ARTS

Students may opt for this scheme at the end of their first year or, with the special permission of the head of the department, at the end of their second year.

First Year
As for Scheme A.

Second Year
1 to 3. As for Scheme A
4. History of style, based on the supervised study of local collections (4 lectures or tutorials a week).
In the long vacation at the end of the second year, candidates must also, under the direction of the head of the Department of Fine Art, spend not less than six weeks in London studying original works of art; and submit satisfactory evidence of the thoroughness of this study.

Third Year
1. Detailed study of a special period in the fine arts, chosen from (a), (f) and (g) listed above for Scheme A, subject to the approval of the head of the department (2 lectures or tutorials a week).
2. Detailed study of two designated artists, craftsmen or types of work in the decorative arts (1 lecture or tutorial a week)
3. Study of two books chosen from those listed above for Scheme A, which may by the permission of the head of the department be replaced with comparable source-books in the field of the decorative arts (1 lecture or tutorial a week)
4. Techniques in the decorative arts (2 lectures or tutorials a week)
5. History of style based on the supervised study of local collections.
In the long vacation at the end of the third year, candidates must also, under the direction of the head of the Department of Fine Art, spend not less than six weeks studying original works of art at approved centres abroad; and submit satisfactory evidence of the thoroughness of this study. The cost of residence abroad is not included in the normal fee for an arts scheme.

Fourth Year
1. The history of style, based on the supervised study of local collections.
2. Museum methods in the decorative arts (1 tutorial a week)
3. The critical study of the decorative arts (1 tutorial a week)

EXAMINATIONS

SCHEME A

First Year
A qualifying examination will be held at the end of the first year, and candidates will be advised on their subsequent courses of study on the basis of their performance therein.
1. Outline history of European art (2 papers)*
2. Oral examination
3. Practical test (3 hours). In addition candidates will be required to submit a portfolio representing the year's work.
4. One approved subject.

Third Year
Part I of the final examination, which will relate to the syllabus covered in the second and third years, will be taken at the end of the third year.
Candidates must satisfy the examiners in the Part I examination before proceeding to further study. A candidate who does not satisfy the examiners at the first attempt will not thereafter be eligible for the award of the degree with honours.
1 and 2. Special periods in the history of European art (2 papers)*
3. Designated artists (1 paper)*
4. Set books (1 paper)
5. Methods and materials (1 paper)
6. Candidates will also be required to submit for examination examples of practical work done during the year.

Fourth Year
Part II of the final examination will be taken at the end of the fourth year.
1. Theories and institutions (1 paper)
2. A dissertation of 8,000 to 10,000 words on a theme approved by the head of the department, which candidates will be required to submit not later than 1 May
3. An examination of practical work carried out during the period of the scheme
4. Oral examination.

SCHEME B

First Year
As for Scheme A.

Third Year
Part I of the final examination, which will relate to the syllabus covered in the second and third years, will be taken at the end of the third year.
Candidates must satisfy the examiners in the Part I examination before proceeding to further study. A candidate who does not satisfy the examiners at the first attempt will not thereafter be eligible for the award of the degree with honours.
1. A special period in the history of art (1 paper)
2. Designated artists (1 paper)
3. History of photography and cinematography (1 paper)
4. Techniques of cinematography (1 paper)
5. Set books (1 paper)
6. Candidates will also be required to submit for examination samples of practical work done during the year.

* These courses form the course in fine art as a subsidiary subject for a first degree.

Fourth Year
Part II of the final examination will be taken at the end of the fourth year.
1. The critical study of film and television (1 paper)
2. A dissertation of 8,000 to 10,000 words on a theme approved by the head of the department, which candidates will be required to submit not later than 1 May
3. An examination of practical work carried out during the period of the scheme.
4. Oral examination.

SCHEME C
First Year
As for Scheme A.

Third Year
Part I of the final examination, which will relate to the syllabus covered in the second and third years, will be taken at the end of the third year.
Candidates must satisfy the examiners in the Part I examination before proceeding to further study. A candidate who does not satisfy the examiners at the first attempt will not thereafter be eligible for the award of the degree with honours.
1 and 2. Special periods in the history of European art (2 papers)
3. Designated artists or subjects (1 paper)
4. History of the decorative arts—Part I (1 paper)
5. Techniques of the decorative arts (1 paper)
6. Candidates will be required to submit for examination examples of work in museum techniques.
7. Oral examination.

Fourth Year
Part II of the final examination will be taken at the end of the fourth year.
1. History of the decorative arts—Part II (1 paper)
2. A dissertation on a theme approved by the head of the department not later than the end of the preceding academic year. The dissertation should be of 8,000 to 10,000 words which candidates will be required to submit not later than 1 May
3. An examination of work in museum techniques carried out during the period of the course
4. Oral examination.

Students will be required to contribute to the cost of materials required in the course leading to the degree of Bachelor of Arts in fine art.

Fine Art and Music

A scheme of study extending over a period of three years and leading to the degree of Bachelor of Arts in Fine Art and Music.

COURSE REQUIREMENT
Passes in two approved subjects at advanced level are required and a third is preferred.
One of these passes should preferably be in music.
The *second* should preferably be in a modern language.

SCHEME OF STUDY
In the long vacation at the end of the second year candidates must, under the direction of the head of the Department of Fine Art, spend not less than three weeks in London studying original works of art, and submit satisfactory evidence of the thoroughness of this study. The cost of residence in London is not included in the normal fee for an arts scheme.

FIRST-YEAR EXAMINATION

1. Fine art: an oral examination and two papers as follows:
   (a) History of art and architecture from the earliest times until the Renaissance
   (b) Outline of European painting and sculpture from 1300 to the present day
2. Music (2 papers):
   (a) Harmony and counterpoint
   (b) History of music 700 to 1720
   Practical training
3. One other approved subject.

FINAL EXAMINATION

1. History of painting, sculpture and architecture
2. History of ideas and institutions connected with the arts
3. History of music since 1880
4 and 5. Stylistic studies
6. Special subject (music)
7. Acoustics*
8. Practical and oral examinations in music.

In addition candidates will be required to submit not later than 1 May an essay of about 8,000 words on a subject which may relate to music or to fine art or to some topic combining these subjects. The title should be submitted to the heads of the two departments for approval at the beginning of the third year of the scheme.

Fine Art and Philosophy

A scheme of study extending over a period of three years and leading to the degree of Bachelor of Arts in Fine Art and Philosophy.

COURSE REQUIREMENT

For admission to the scheme passes in two approved subjects at advanced level are required and a third is preferred.
One of these passes should preferably be in a modern language.

SCHEME OF STUDY

In the long vacation at the end of the second year candidates must, under the direction of the head of the Department of Fine Art, spend not less than three weeks in London studying original works of art, and submit satisfactory evidence of the thoroughness of this study. The cost of residence in London is not included in the normal fee for an arts scheme.

FIRST-YEAR EXAMINATION

1. Philosophy: two papers as follows:
   (a) Introduction to philosophy
   (b) Reason and argument
2. Fine Art: an oral examination and two papers as follows:
   (a) History of art and architecture from the earliest times until the Renaissance
   (b) Outline of European painting and sculpture from 1300 to the present day
3. One other approved subject.

THIRD YEAR: FINAL EXAMINATION

1. Philosophical problems
2. The history of *either* ancient and medieval *or* modern philosophy. (Candidates will be required to submit three essays; for the history of modern philosophy examination, candidates will submit three essays by the end of the long vacation following the end of the second year; for the history of ancient and medieval philosophy examination, candidates will submit three essays by the end of the Easter vacation in the final year.)

* The acoustics course is given in alternate years. Candidates will take the paper in acoustics in the year in which they attend the course.

3. Political and social philosophy *or* ethics
4. Aesthetics
5. A special subject to be chosen with the approval of the heads of the Departments of Philosophy and Fine Art*
6 and 7. History of a special period in the fine arts, as provided by the regulations for the degree in fine art (2 papers)
or Special period (1 paper)
The work of two designated artists (1 paper).
8. History of ideas and institutions connected with the fine arts

In addition candidates must present themselves for an oral examination.

Fine Art and Spanish

A scheme of study extending over a period of three years (with an additional year spent abroad) and leading to the degree of Bachelor of Arts in Fine Art and Spanish.

COURSE REQUIREMENT

For admission to the scheme passes in Spanish and another approved subject at the advanced level in a General Certificate of Education or equivalent examination are normally required, and a pass in a third subject is preferred.

SCHEME OF STUDY

Candidates will normally be required to spend one year in Spain between the second and third years of this scheme; and to study and write a report on works of art in their setting. The cost of residence abroad is not included in the normal fee for an arts scheme.

FIRST-YEAR EXAMINATION

1. Fine art: an oral examination and two papers as follows:
   (a) European painting and sculpture from 1300 to the present day
   (b) History of Spanish art

In addition, students will attend essay tutorials during the year, and the work done for these will be taken into account.

2. Spanish: an oral examination in Spanish language and two papers as follows:
   (a) Spanish language
   (b) Modern literature

In addition, students will attend selected essay tutorials during the year, and the work done for these will be taken into account.

3. One other approved subject.

SECOND YEAR: PART I EXAMINATION

1. Golden Age literature

FINAL EXAMINATION

Oral examinations in fine art and Spanish and the following papers:
1 and 2. Special periods in the history of European art (2 papers)
3. Designated subjects in the history of art in Spain.
4. Spanish literature: *either* one special sessional course subject *or* two special semester course subjects.
5. *One* of the following:
   (a) Spanish-American literature (read with second-year Spanish)
   (b) Portuguese language
   (c) Any other option it may be possible to offer from time to time
6. Translation into Spanish
7. Translation from Spanish and essay in Spanish.

In addition, candidates will be required to present by 1 December in their final year an essay of some 8,000 to 10,000 words within the fields of fine art and Spanish.

* With the approval of the heads of the departments concerned, the special subject may be examined by dissertation.

French

A scheme of study extending over a period of three years (with an additional year spent abroad) and leading to the degree of Bachelor of Arts in French Language and Literature.

COURSE REQUIREMENT

For admission to the scheme passes in three approved subjects at advanced level are required.
One of these passes must be in French.
The *second* and *third* may be in any approved subject at advanced level.
In addition a pass in Latin at ordinary level is required.

SCHEME OF STUDY

First Year

1. French language and literature (translation into French, translation into English, phonetics, Old French, general linguistics and Romance philology, French linguistics, history and structure of the French language, French literature and thought of the 17th century, French literature of the 20th century).
2. French history and institutions.
3 and 4. Two other approved subjects.

A qualifying examination must normally be passed by candidates before they proceed to further study. In French, this will consist of an oral examination and the following papers which, unless otherwise indicated, will be of three hours each:

1. Translation into French, translation into English
2. Essay in French (1½ hours)
3. Literature
4. History and structure of the French language; Old French (2¼ hours)
5. Linguistics and 17th-century thought
6. Phonetics (2 hours)
7. History and institutions (1½ hours)

Second Year

1. Translation into French
2. Translation into English
3. *Explication de textes*
4. Medieval French literature
5. Stylistics
6. French institutions
7. 18th-century French thought
8. 19th-century French novel
9. One of the following* special subjects to be selected with the approval of the head of the department:

   (a) Pre-renaissance literature
   (b) Anglo-French relations
   (c) 17th-century literature
   (d) 17th and 18th-century moralists
   (e) 18th-century drama
   (f) Pre-romantic literature
   (g) Romantic drama
   (h) Phonology and morphology
   (i) Semantics
   (j) A period of French history

While abroad, students will be required to write a long essay in French on a topic approved by the head of the Department of French.

* Not all subjects in this list will necessarily be available in any one year, and new subjects may be added from time to time.

Final Year

1. Translation into French
2. Translation into English
3. *Explication de textes*
4. History and structure of the French language; French linguistics
5. French institutions
6. 16th-century French literature
7. French poetry in the latter half of the 19th century
8. One of the following* special subjects to be selected with the approval of the head of the department:
   (a) Medieval literature
   (b) Renaissance satire
   (c) 17th-century literature
   (d) 17th-century comedy
   (e) 18th-century literature
   (f) 18th-century novel
   (g) 19th-century thinkers
   (h) 20th-century drama
   (i) 20th-century literature
   (j) 20th-century novel
   (k) 20th-century poetry
   (l) 20th-century thinkers
   (m) Provençal
   (n) A period in the history of French art
   (o) Phonetics
   (p) History of French science

A dissertation, to take two years, may, with the approval of the head of the department, be substituted for the special subjects taken in the second and third years.

In addition to the above, students will be required to take in their second and final years a subsidiary subject, to be approved by the head of the Department of French Language and Literature, from sections 3 and 4 of the first-year course, and to present themselves for the necessary examinations. With the approval of the head of that Department an examination in this subsidiary subject may be held in March of the second year of study when the department teaching the subsidiary subject so wishes. The results obtained will be taken into account in considering the results of the final examination in the subsidiary subject, which is an integral part of the final degree examination.

The third term of the second year will normally be spent at a university abroad, the choice of the university to be subject to the approval of the head of the department in consultation with the head of the department in which the subsidiary subject is taken. Students taking another foreign language as a subsidiary subject will be required to spend this term in the country where the language is spoken; students not taking another foreign language as a subsidiary subject will spend the third term following an approved course of study at a French university. Any student taking another modern language as a subsidiary subject who is unable to spend the third term of the second year in this manner will be required, before his or her final year, to spend at least one month at an approved vacation course in the country where the subsidiary language is spoken.

Students will also be required to spend the following year in France before returning to Leeds for their final year. Whenever possible, arrangements will be made for students to take a post of English-speaking *assistant* in a French educational institution. When such a post cannot be found, students will be required to follow an approved course of study of one academic year at a French university.

The cost of residence abroad is not included in the normal fee for an arts scheme.

* Not all subjects in this list will necessarily be available in any one year ,and new subjects may be added from time to time.

FINAL EXAMINATION

The final examination will consist of an oral examination and the papers listed below, which, unless otherwise indicated, will be of three hours each. The following papers will be taken in March of the second year and the marks obtained in them will be used in determining the class of degree awarded:

1. Medieval French literature (1½ hours)
2. 18th-century French thought (1½ hours)
3. The special subject taken in the second year (1½ hours)

The following papers will be taken at the end of the final year:

1. Translation into French
2. Translation into English (including one passage of unseen translation from a 16th-century text)
3. Essay in French
4. *Explication de textes*
5. History and structure of the French language and stylistics (1½ hours)
6. French institutions (1½ hours)
7. 16th-century French literature (1½ hours)
8. 19th-century French novel (1½ hours)
9. French poetry in the latter half of the 19th century (1½ hours)
10. The special subject taken in the third year (1½ hours)

FRENCH AS A SUBSIDIARY SUBJECT

Students taking French as a subsidiary subject in *other* single-subject schemes will be required to take the following courses in the second year:

Prose and essay Translation Literature Phonetics and conversation	three hours a week plus conversation

In the third year

Prose and essay Translation Literature Conversation	three hours a week plus conversation

An examination in this subsidiary subject will be held in March of the second year of study. The results obtained will be taken into account in considering the results of the final examination in the subsidiary subject, which is an integral part of the final degree examination.

French and Hebrew

A scheme of study extending over a period of three years (with an additional year spent abroad) and leading to the degree of Bachelor of Arts in French and Hebrew.

COURSE REQUIREMENT

For admission to the scheme passes in two approved subjects at advanced level are required, and a third is preferred.
One of these passes must be in French.

SCHEME OF STUDY

Candidates will be required to spend one year either in France (or a French-speaking country) or in Israel. If they spend their year abroad in France, they will normally be required to spend part of the long vacation at the end of the second year at a Hebrew-speaking university or institution of learning approved by the Department of Semitic Studies. If they spend the year in Israel, they will be required to spend the summer term of their second year following a course of study at a French-speaking university approved by the heads of both departments. Wherever possible, arrangements will be made for students spending the year in France to

take a post as *assistant*. If such arrangements cannot be made, students will normally be required to spend the academic year following a course of study at a French-speaking university approved by the heads of both departments.

During their year abroad, students will write a dissertation on a question approved by both departments, which may relate to French or to Hebrew or to some topic combining both these subjects, and submit such other written work as may be required by the two departments.

The cost of residence abroad is not included in the normal fee for an arts scheme.

FIRST-YEAR EXAMINATION

1. French: An oral examination in French and two papers as follows:
   (a) French language
   (b) 20th-century French literature and institutions
2. Hebrew (2 papers)
3. One other approved subject.

PART I EXAMINATION

Candidates will be examined at the end of the second term of the second year in 18th-century French thought (one 1½-hour paper). This paper will constitute Part 1 of the final examination for the degree of B.A. in French and Hebrew.

FINAL EXAMINATION

The final examination will consist of an oral examination in French and the following papers:
1. Translation into French (one 3-hour paper)
2. Translation into English and essay in French (one 3-hour paper)
3. 16th-century French literature (one 1½-hour paper)
4. 19th-century French poetry (one 1½-hour paper)
5. 19th-century French novel (one 1½-hour paper)
6. Special subject in French (one 1½-hour paper)
7. Hebrew: Old Testament: prose and poetry (one 3-hour paper)
8. Hebrew: post-biblical to modern (one 3-hour paper)
9. Translation into classical and modern Hebrew, with questions on grammar and style (one 3-hour paper)
10. Hebrew history and the historical development of the language (one 3-hour paper)
11. Dissertation (to be written during the year abroad and presented by the end of September of the pre-final year).

French and History

Two schemes of study extending over a period of three years (with an additional year spent abroad) and leading to the degree of Bachelor of Arts in French and History.

COURSE REQUIREMENT

For admission to the scheme passes in two approved subjects at advanced level are required, and a third is preferred.
One of these passes must be in French.
For students proposing to take Scheme B, a pass in Latin at ordinary level is required.

SCHEME OF STUDY

After the first year of the scheme, students will be required to choose between two schemes of study: Scheme A (after 1600); Scheme B (emphasising the period before 1600).

After their second year of study in the University candidates will be required to spend a year in France or a French-speaking country. During this year they will write a dissertation for the School of History and submit such other written work as may be required by the two depart-

ments. If possible, arrangements will be made for students to take a post as *assistant*, preferably in an archive town. If such arrangements cannot be made, students will be required to spend the academic year following a course of study at a French-speaking university approved by the heads of both departments. The cost of residence abroad is not included in the normal fee for an arts scheme.

FIRST-YEAR EXAMINATION

1. French: An oral examination and the following two papers:
   (a) French language
   (b) 20th-century French literature and institutions
2. History: 2 papers, selected with the approval of the chairman of the School of History, from the following:
   (a) The ancient Near East and Greece
   (b) Ancient Rome and the Roman world
   (c) Medieval Europe
   (d) Early modern Europe (to *c.* 1789)
   (e) The making of the modern world.
3. One other approved subject.

FINAL EXAMINATION

SCHEME A

The final examination in Scheme A will consist of an oral examination in French and the following papers:

1. Translation into French (one 3-hour paper)
2. Translation into English and essay in French (one 3-hour paper)
3. 16th-century French literature (one 1½-hour paper)
4. 19th-century French poetry (one 1½-hour paper)
5. 19th-century French novel (one 1½-hour paper)
6. 17th-century French literature (final-year special subject; one 1½-hour paper)
7. 18th-century French thought (one 1½-hour paper)
8. Reform and society in Europe 1450 to 1600 (one 3-hour paper)
9. France and Europe in the 17th and 18th centuries (one 3-hour paper)
10. *Either* European social and intellectual history 1815 to 1918 *or* History of international relations 1871 to 1949 (one 3-hour paper)
11. Special subject in history (one 3-hour paper)
12. Dissertation on a historical subject (to be written during the year abroad and presented by the end of the first term of the final year).

SCHEME B

The final examination in Scheme B will consist of an oral examination in French and the following papers:

1. Translation into French (one 3-hour paper)
2. Translation into English and essay in French (one 3-hour paper)
3. Old French (one 1½-hour paper)
4. Medieval French literature (one 1½-hour paper)
5. 16th-century French literature (one 1½-hour paper)
6. 17th-century French literature (one 1½-hour paper)
7. Special subject in French (one 1½-hour paper)
8. History of Britain from the earliest times to the end of the 14th century (one 3-hour paper)
9. *Either* European towns 950 to 1250 *or* The Church in the later Middle Ages (one 3-hour paper)
10. France in the 13th century (one 3-hour paper)
11. Special subject in history (one 3-hour paper)
12. Dissertation on a historical subject (to be written during the year abroad and presented by the end of the first term of the final year).

French and Latin

A scheme of study extending over a period of three years (with an additional year spent abroad) and leading to the degree of Bachelor of Arts in French and Latin languages and literatures.

COURSE REQUIREMENT

For admission to the scheme passes in two approved subjects at advanced level are required and a third is preferred.
One of these passes must be in French.
The *second* must be in Latin.

SCHEME OF STUDY AND EXAMINATION

1. *French*

The courses and examinations in French will be the same as those for the degree in modern languages and literatures (see pages C100-101 and C102) except that students will take the papers in medieval French literature and 18th-century French thought in March of their second year, as set out on p. C61. The results obtained in these papers will be used in determining the class of degree awarded in their final examinations.
While abroad, students will be required to write a long essay in French on a topic approved by the head of the Department of French.

2. *Latin*

The final examination will consist of the following papers:
Latin prose composition *or* linguistic exercise (1 paper)
Latin unprepared translation (1 paper)
The Latin books prescribed for the degree in classics (2 papers) (see page C151).
General paper as for the degree in classics (1 paper)
Either History and archaeology of Roman Britain (one 3-hour paper) *or two* of the special subjects as prescribed for the degree in Latin (two 1½-hour papers).
3. Candidates will also be required to take a subsidiary subject for one year.

French and Management Studies

A scheme of study extending over a period of three years (with an additional year spent abroad) and leading to the degree of Bachelor of Arts in French and Management Studies.

COURSE REQUIREMENT

For admission to the scheme passes in two approved subjects at advanced level are required and a third is preferred.
One of these passes must be in French.
In addition a good pass in mathematics at ordinary level is required. Preference may be given to candidates with a pass in mathematics at advanced level, but this is not a course requirement.

SCHEME OF STUDY

The course in management studies for the second year includes Management accounting 1 *or* Economic statistics. Candidates wishing to take Quantitative methods in decision-making in their final year are required first to have satisfactorily completed one of the two aforementioned courses.
After their second year in the University, candidates will be required to spend a year in a French-speaking country approved by both Departments. During this year, they will *either* follow a course of study at a University or institution of comparable standing *or* be attached to

an industrial, commercial or administrative organisation. In neither case, however, can they expect to receive a salary or stipend, and the cost of residence abroad is not included in the normal fee for this course.
During this year, students will also write a long essay concerned either with the course of study they are following or with the organisation to which they are attached. They will also submit such other written work as may be required by the two Departments.

FIRST-YEAR EXAMINATION
1. French: An oral examination in French and two papers as follows:
   (a) French language
   (b) 20th-century French literature and institutions
2. Management Studies: Two papers as follows:
   (a) Management economics C1
   (b) Introduction to industrial management C1
3. One other approved subject.

PART I EXAMINATION
Candidates will be examined at the end of the second term of the second year in 17th-century French literature and 18th-century French thought (two 1½-hour papers) and at the end of the third term in Management economics C2 (one 3-hour paper). Candidates will also be required to present at the end of the third term of the second year a project in management studies. These papers and project will constitute Part I of the final examination for the degree of B.A. in French and Management Studies.

FINAL EXAMINATION
The final examination will consist of an oral examination in French and the following papers:
1. Translation into French (one 3-hour paper)
2. Translation into English and essay in French (one 3-hour paper)
3. 19th-century French novel (one 1½-hour paper)
4. Contemporary French history and institutions (one 1½-hour paper)
5. Special subject in French (one 1½-hour paper)
6. Organisation theory C2 (one 3-hour paper)
7. Social and industrial psychology C3 (one 3-hour paper)
8. Applied organisation studies C3 *or* Quantitative methods in decision making C3 (one 3-hour paper)
9. Conference précis-writing ('bridge' paper) (equivalent to one 1½-hour paper)

French and Philosophy

A scheme of study extending over a period of three years (with an additional year spent abroad) and leading to the degree of Bachelor of Arts in French and Philosophy.

COURSE REQUIREMENT
For admission to the scheme passes in two approved subjects at advanced level are required, and a third is preferred.
One of these passes must be in French.

SCHEME OF STUDY
After their second year in the University candidates will be required to spend a year in France or a French-speaking country. During this year they will write a long essay on a philosophical subject and submit such other written work as may be required by the two departments. If possible, arrangements will be made for students to take a post as *assistant*. If such arrangements cannot be made, students will be required to spend the academic year pursuing a course of study at a French-speaking university approved by the heads of both departments. The cost of residence abroad is not included in the normal fee for an arts scheme.

FIRST-YEAR EXAMINATION

1. French: An oral examination and the following two papers:
   (a) French language
   (b) 20th-century French literature and institutions
2. Philosophy: the following two papers:
   (a) Introduction to philosophy
   (b) Reason and argument
3. One other approved subject.

SECOND-YEAR EXAMINATION

At the end of the second term of the second year candidates will be examined in 18th-century French thought. Candidates will also be examined in the history of modern philosophy by means of three essays to be submitted by the end of the long vacation following the end of the second year. These two papers will constitute Part I of the final examination for the degree of B.A. in French and Philosophy.

During the second year, students will be required to write an essay of about 3,000 words to be marked by the Department of French and based on work done for the course on French thought in the seventeenth century. The mark obtained for this essay will be taken into account in determining the class of degree awarded.

FINAL EXAMINATION

The final examination will consist of an oral examination in French and the following papers:

1. Translation into French (one 3-hour paper)
2. Translation into English and essay in French (one 3-hour paper)
3. 19th-century novel (one 1½-hour paper)
4. 19th-century poetry (one 1½-hour paper)
5. History and institutions (one 1½-hour paper)
6. A period of French thought (final year special subject; one 1½-hour paper)
7. Philosophical problems (one 3-hour paper)
8. Ethics *or* political and social philosophy (one 3-hour paper)
9. Philosophical special subject (one 3-hour paper) *or* a dissertation of not more than 8,000 words on a topic approved by the head of the Department of Philosophy: to be submitted by a date laid down by the head of the Department of Philosophy.
10. Philosophical 'bridge' paper (one 3-hour paper).

In addition, candidates may be required to present themselves for an oral examination in philosophy.

French and Portuguese

Two schemes of study extending over a period of three years (with an additional year spent abroad) and leading to the degree of Bachelor of Arts in French and Portuguese.

COURSE REQUIREMENT

For admission to the scheme passes in two approved subjects at advanced level are required, and a third is preferred. One of these passes must be in French. For students proposing to take Scheme B, a pass in Latin at ordinary level is required.

SCHEME OF STUDY

After the first year of the course, students will be required to choose between two schemes of study: Scheme A (in French the period after 1600 is emphasised); Scheme B (in French the period before 1600 is emphasised).

Students will normally be required to spend one year in France or Portugal between the second and third years of these schemes; and to spend the third term of the second year in the other country. If possible, arrangements will be made for students spending the year in France to work as *assistants*. If such arrangements cannot be made, they will be required to attend a course of study at a French-speaking university approved by the heads of both departments.

Students who spend the year in Portugal will normally be expected to attend approved courses at a university or similar institution. The cost of residence abroad is not included in the normal fee for an arts scheme.
During the year abroad candidates will write a dissertation on an approved topic within the fields of French or Portuguese, or combining both subjects, and submit such other work as may be required by the two departments.

FIRST-YEAR EXAMINATION

1. French: an oral examination in French and two papers as follows:
   (a) French language
   (b) 20th-century French literature and institutions.
2. Portuguese: an oral examination in Portuguese and two papers as follows:
   (a) Portuguese language
   (b) Modern Portuguese literature.

In addition, students will attend essay tutorials on the Portuguese literature studied, and the work done for these will be taken into account.

3. One other approved subject.

SCHEME A

SECOND YEAR; PART I EXAMINATION (to be taken at the end of the second term)

1. 18th-century French thought (1½-hour paper)
2. O Quinhentismo (3-hour paper)

THIRD YEAR: FINAL EXAMINATION

The final examination will consist of oral examinations in both languages and the following papers:

1. Translation into French (3-hour paper)
2. Translation from French and essay in French (3-hour paper)
3. 16th-century French literature (1½-hour paper)
4. 19th-century French poetry (1½-hour paper)
5. 19th-century French novel (1½-hour paper)
6. Special subject in French (1½-hour paper)
7. Translation into Portuguese (3-hour paper)
8. Translation from Portuguese and essay in Portuguese (3-hour paper)
9. 19th-century Portuguese novel (3-hour paper)
10. Brazilian literature (3-hour paper)

SCHEME B

SECOND YEAR: PART I EXAMINATION (to be taken at the end of the second term)

1. 17th-century French literature (1½-hour paper)
2. O Quinhentismo (3-hour paper)

THIRD YEAR: FINAL EXAMINATION

The final examination will consist of oral examinations in both languages and the following papers:

1. Translation into French (3-hour paper)
2. Translation from French and essay in French (3-hour paper)
3. Old French (1½-hour paper)
4. Medieval French literature (1½-hour paper)
5. 16th-century French literature (1½-hour paper)
6. Special subject in French (1½-hour paper)
7. Translation into Portuguese (3-hour paper)
8. Translation from Portuguese and essay in Portuguese (3-hour paper)
9. 19th-century Portuguese novel (3-hour paper)
10. Brazilian literature (3-hour paper)

French and Religious Studies

Two schemes of study extending over a period of three years (with an additional year spent abroad) and leading to the degree of Bachelor of Arts in French and Religious Studies.

COURSE REQUIREMENT

For admission to the scheme passes in two approved subjects at advanced level are required, and a third is preferred.
One of these passes must be in French.
For students proposing to take Scheme B, a pass in Latin at ordinary level is required.

SCHEME OF STUDY

After the first year of the course, students will be required to choose between two schemes of study: Scheme A (in French the period after 1600 is emphasised); Scheme B (in French the period before 1600 is emphasised).
After their second year of study in the University candidates will be required to spend a year in France or a French-speaking country. During this year they will write a dissertation, which may relate to French or religious studies or to some topic combining these subjects, and submit such other written work as may be required by the two departments. If possible, arrangements will be made for students to take a post as *assistant*. If such arrangements cannot be made, students will be required to spend the academic year following a course of study at a French-speaking university approved by the heads of both departments. The cost of residence abroad is not included in the normal fee for an arts scheme.

FIRST-YEAR EXAMINATION

1. French: an oral examination and the following two papers:
   (a) French language
   (b) 20th-century French literature and institutions
2. Religious Studies: philosophy and history of religion (2 papers)
3. One other approved subject.

PART I EXAMINATION

Candidates will be examined at the end of the second term of the second year in 18th-century French thought (one 1½-hour paper). This paper will constitute Part 1 of the final examination for the degree of B.A. in French and Religious Studies.

FINAL EXAMINATION

SCHEME A

The final examination in Scheme A will consist of an oral examination in French and the following papers:
1. Translation into French (one 3-hour paper)
2. Translation into English and essay in French (one 3-hour paper)
3. 16th-century French literature (one 1½-hour paper)
4. 19th-century French poetry (one 1½-hour paper)
5. 19th-century French novel (one 1½-hour paper)
6. 17th-century French literature (final-year special subject); (one 1½-hour paper)

and any *four* of the following:
7. History of religion II (one 3-hour paper)
8. History of religion III (one 3-hour paper)
9. Philosophy of religion (one 3-hour paper)
10. Ethics (one 3-hour paper)
11. Church history (one 3-hour paper)
12. Christian theology (one 3-hour paper).

SCHEME B

The final examination in Scheme B will consist of an oral examination in French and the following papers:

1. Translation into French (one 3-hour paper)
2. Translation into English and essay in French (one 3-hour paper)
3. Old French (one 1½-hour paper)
4. Medieval French literature (one 1½-hour paper)
5. 16th-century French literature (one 1½-hour paper)
6. Special subject in French (one 1½-hour paper)

and any *four* of the following:

7. History of religion II (one 3-hour paper)
8. History of religion III (one 3-hour paper)
9. Philosophy of religion (one 3-hour paper)
10. Ethics (one 3-hour paper)
11. Church history (one 3-hour paper)
12. Christian theology (one 3-hour paper)

French and Theology

Two schemes of study extending over a period of three years (with an additional year spent abroad) and leading to the degree of Bachelor of Arts in French and Theology.

COURSE REQUIREMENT

For admission to the scheme passes in two approved subjects at advanced level are required, and a third is preferred.

One of these passes must be in French.

For students proposing to take Scheme B, a pass in Latin at ordinary level is required.

SCHEME OF STUDY

After the first year of the course, students will be required to choose between two schemes of study: Scheme A (in French the period after 1600 is emphasised); Scheme B (in French the period before 1600 is emphasised).

After their second year of study in the University candidates will be required to spend a year in France or a French-speaking country. During this year they will write a dissertation, which may relate to French or theology or to some topic combining these subjects, and submit such other written work as may be required by the two departments. If possible, arrangements will be made for students to take a post as *assistant*. If such arrangements cannot be made, students will be required to spend the academic year following a course of study at a French-speaking university approved by the heads of both departments. The cost of residence abroad is not included in the normal fee for an arts scheme.

FIRST-YEAR EXAMINATION

1. French: an oral examination and the following two papers:
   (a) French language
   (b) 20th-century French literature and institutions
2. Theology: two papers as follows:
   (a) New Testament Greek I
   (b) History and religion of Israel to the beginning of the Exile, with an introduction to the relevant literature of the Old Testament.
3. One other approved subject.

PART I EXAMINATION

Candidates will be examined at the end of the second term of the second year in 18th-century French thought (one 1½-hour paper). This paper will constitute Part 1 of the final examination for the degree of B.A. in French and Theology.

FINAL EXAMINATION

SCHEME A

The final examination in Scheme A will consist of an oral examination in French and the following papers:

1. Translation into French (one 3-hour paper)
2. Translation into English and essay in French (one 3-hour paper)
3. 16th-century French literature (one 1½-hour paper)
4. 19th-century French poetry (one 1½-hour paper)
5. 19th-century French novel (one 1½-hour paper)
6. 17th-century French literature (final-year special subject) (one 1½-hour paper)
7. Old Testament (with English text: in 1972 Job, Jeremiah 1-20; *or* Hebrew: in 1972 Deuteronomy 1-7, Isaiah 46-53 (one 3-hour paper)
8. New Testament (with prescribed text in Greek: in 1972 St. Matthew) (one 3-hour paper)
9. Biblical and historical theology *or* Christian theology (one 3-hour paper)
10. Church history *or* Philosophy of religion *or* History of religion (one 3-hour paper).

SCHEME B

The final examination in Scheme B will consist of an oral examination in French and the following papers:

1. Translation into French (one 3-hour paper)
2. Translation into English and essay in French (one 3-hour paper)
3. Old French (one 1½-hour paper)
4. Medieval French literature (one 1½-hour paper)
5. 16th-century French literature (one 1½-hour paper)
6. Special subject in French (one 1½-hour paper)
7. Old Testament (with English text: in 1972 Job, Jeremiah 1-20; *or* Hebrew: in 1972 Deuteronomy 1-7, Isaiah 46-53) (one 3-hour paper)
8. New Testament (with prescribed text in Greek: in 1972 St. Matthew) (one 3-hour paper)
9. Biblical and historical theology *or* Christian theology (one 3-hour paper)
10. Church history *or* Philosophy of religion *or* History of religion (one 3-hour paper).

Geography and History

A scheme of study extending over a period of three years and leading to the degree of Bachelor of Arts in Geography and History.

COURSE REQUIREMENT

For admission to the scheme passes in two subjects at advanced level are required and a third is preferred.

One of these passes must be in geography.

FIRST-YEAR EXAMINATION

1. Geography: three papers as follows:
   (a) Environmental physiography
   (b) Evolution of settlement and land use
   (c) Cartography and quantitative method
2. History: two papers selected with the approval of the chairman of the School of History from the following:
   (a) The ancient Near East and Greece
   (b) Ancient Rome and the Roman world
   (c) Medieval Europe
   (d) Early modern Europe (to *c.* 1789)
   (e) The making of the modern world
3. One other approved subject.

FINAL EXAMINATION
1. Environmental physiography
2. Systems of spatial organisation
3. Natural resources and regional development
4. **Either* China *or* U.S.S.R.
5. Historical analysis of settlement in Great Britain
6. Roman Britain *or* an alternative subject selected with the approval of the chairman of the School of History
7. The expansion of Europe 1492 to 1783
8. Economic history of the modern world from *c.* 1850
9. *History of Eastern Asia from 1840 *or* History of Russia from 1856.

In the Department of Geography tutorial and essay work is required in all three years and candidates will be required to attend field courses, one of which may be held in a vacation period. Candidates will also be required to attend field courses in connection with the subject Roman Britain. Field work will be tested in the examinations.

Geography and Mathematics

Two schemes of study leading to the degree of Bachelor of Arts in Geography and Mathematics, one scheme extending over three years and the other extending over four years. The scheme to which a candidate is admitted will depend on the candidate's qualifications on entry.

COURSE REQUIREMENTS
For admission to the scheme passes in two approved subjects at advanced level are required and a third is preferred.
One of these passes must be in geography and another pass must be in mathematics. Mathematics should normally include both pure and applied mathematics, either as one subject or as two subjects, but candidates who offer pure mathematics alone or pure mathematics with statistics will be considered.

FIRST-YEAR EXAMINATION (in three-year scheme of study)
1. Geography: three papers as follows:
   (a) Environmental physiography (1 paper)
   (b) Evolution of settlement and land use (1 paper)
   (c) Cartography and quantitative methods (1 paper)
2. Mathematics: 2 papers
3. One other approved subject (2 or 3 papers according to the subject taken).

FINAL EXAMINATION
The final examination will consist of nine papers: *either* five geography and four mathematics *or* four geography and five mathematics.
1. Environmental physiography
2. Systems of spatial organisation
3. Natural resources and regional development
4. Urban and regional analysis
5. 6. 7. 8. Four papers in mathematics
9. An additional paper in geography *or* in mathematics, to be chosen with the approval of the head of the Department of Geography and the Chairman of the School of Mathematics.

In the Department of Geography tutorial and essay work is required in each year of the scheme and candidates will be required to attend field courses, one of which may be held in a vacation period. Field work will be tested in the examinations.

Candidates will be required to attend approved courses in mathematics and statistics, submit written work as directed and pass such examinations as may be prescribed. There will normally

* Students will be required to select under 9 the option appropriate to their field of regional study under 4.

be examinations in mathematics and statistics at the end of each year and a candidate may not proceed to more advanced courses in these subjects unless he has passed the examinations on the preceding courses. A candidate's performance in the examinations at the end of the penultimate year will be taken into account in assessing the result of the final examination.

German

A scheme of study extending over a period of three years (with an optional additional year spent in a German-speaking country) and leading to the degree of Bachelor of Arts in German Language and Literature.

COURSE REQUIREMENT

For admission to the scheme passes in three approved subjects at advanced level are required although candidates with only two passes will be considered.
One of these passes must be in German.
The *second* and *third* may be in any approved arts subjects.

SCHEME OF STUDY

First Year

1. German language
2. German literature and civilisation, with prescribed texts
3. Another approved foreign language or English
4. Another approved subject in the Faculty not taken under 3.

A qualifying examination in these subjects which must normally be passed by candidates before they proceed to further study will be held at the end of the first year. The qualifying examination in German shall consist of an oral examination, a practical test in phonetics and the following four papers:

1. Composition and essay
2. Unprepared translation
3. Prescribed modern texts
4. Middle High German and phonetics.

No candidate shall be regarded as having satisfied the examiners unless he reaches an adequate standard in German composition and essay.

In the second and third years there shall be alternative schemes of study: scheme A, in which special attention will be paid to literature; and scheme B, in which special attention will be paid to philology and medieval literature.

All candidates shall continue the study of composition and attend a course on German life and thought.

The third term of the second year will be spent at an approved university in a German-speaking country, except that students who choose to spend the optional additional year in a German-speaking country (referred to above) and whose subsidiary subject is a modern foreign language will be required to spend the third term of the second year at an approved university in a country where their subsidiary language is spoken. The cost of residence abroad is not included in the normal fee for an arts scheme.

Candidates may be required in any year to attend courses of lectures given in other departments which may be helpful to their studies in the subjects of the school.

In addition to the subjects of the school, each candidate must pursue a prescribed course and present himself for the necessary examination in one other subject included in the Faculty of Arts and approved by the head of the Department of German for a period extending over three years. With the approval of the head of the Department of German an examination in this subsidiary subject may be held in March of the second year of study when the department teaching the subsidiary subject so wishes. The results obtained will be taken into account in considering the results of the final examination in the subsidiary subject, which is an integral part of the final degree examination.

EXAMINATION

The final examination in German shall consist of an oral examination and of the following papers:

SCHEME A

Literature and modern texts (4 papers)
Middle High German (1 paper)
An essay or essays in German on subjects relating to German literature and history or thought (1 paper)
Composition (1 paper)
Unprepared translation (1 paper)
An approved special subject (1 paper)

In place of the special subject candidates may present an extended essay on a subject approved by the head of the department.

SCHEME B

Old High German (1 paper)
History of the German language (1 paper)
Middle High German (1 paper)
Additional Middle High German and Early New High German texts (1 paper)
One approved subject chosen from the following:
Gothic, Old Saxon, Old Icelandic, Modern Icelandic, Old English, Early New High German, or some other Germanic language or dialect, provided the subject chosen has not been studied as a first-year or other prescribed subject or part of such subject (1 paper)
German texts since 1700 (1 paper)
An essay or essays in German on subjects relating to German literature and history or thought (1 paper)
Composition (1 paper)
Unprepared translation (1 paper)

No candidate shall be regarded as having satisfied the examiners unless he reaches an adequate standard in German prose composition and essay.

GERMAN AS A SUBSIDIARY SUBJECT

Students taking German as a three-year subsidiary subject in *other* single-subject degree schemes will be required to take the following courses in the second year:

Composition
Literature
Prescribed texts
Phonetics

and in the third year:

Composition
Literature
Prescribed texts
Conversation

Prescribed texts and literature studied in the second year will be examined in March of that year along with phonetics; and those studied in the third year will be examined in June of the third year.

The examination at the end of the second year will consist of one paper:
Literature and prescribed texts together with an examination in phonetics.

The examination at the end of the third year will consist of two papers:

1. Composition, unprepared translation and essay.
2. Literature and prescribed texts together with an oral examination.

An examination in this subsidiary subject will be held in March of the second year of study. The results obtained will be taken into account in considering the results of the final examination in the subsidiary subjects, which is an integral part of the final degree examination.

German and Music

A scheme of study extending over a period of three years and leading to the degree of Bachelor of Arts in German and Music.

COURSE REQUIREMENT

For admission to the scheme, passes in three approved subjects at advanced level are normally required, but candidates with only two subjects will also be considered.
One of these passes must be in German.
The *second* should preferably be in music.

SCHEME OF STUDY

Candidates will be required to spend the third term of the second year in a German-speaking country. The cost of residence abroad is not included in the normal fee for an arts scheme.

FIRST-YEAR EXAMINATION

1. German: an oral examination in German and three papers as follows:
   (a) Literature and prescribedtexts
   (b) Unprepared translation
   (c) Composition and essay in German
2. Music (two papers):
   (a) Harmony and counterpoint
   (b) History of music 700 to 1720
   Practical training
3. One other approved subject.

FINAL EXAMINATION

The final examination will consist of the following papers (3 hours each):
1. German composition
2. Unprepared translation from German and German essay
3. Literature and prescribed texts I
4. Literature and prescribed texts II
5. History of music since 1880
6 and 7. Stylistic studies
8. Special subject in music
9. Acoustics*

In addition candidates will be required to submit, not later than 1 May of their final year, an essay of about 8,000 words on a subject which may relate to German or to music or to some topic common to both subjects. The title of the essay must be submitted for approval of both heads of departments not later than the beginning of the third year of the course.
Candidates must also present themselves for an oral examination in German and for oral and practical examinations in music.

German and Philosophy

A scheme of study extending over a period of three years (with an additional year spent abroad) and leading to the degree of Bachelor of Arts in German and Philosophy.

COURSE REQUIREMENT

For admission to the scheme, passes in three approved subjects at advanced level are normally required, but candidates with only two subjects will be considered. *One* of these passes must be in German.

* The acoustics course is given in alternate years. Candidates will take the paper in acoustics in the year in which they attend the course, i.e., either in March of the second year or June of the third year.

SCHEME OF STUDY
Candidates will be required to spend the third year in a German-speaking country. During this year they will also write a long essay on a philosophical subject and submit any other written work as may be required by the two departments. The cost of residence abroad is not included in the normal fee for an arts scheme.

FIRST-YEAR EXAMINATION
1. German: an oral examination in German and three papers as follows:
   (a) Literature and prescribed texts
   (b) Unprepared translation
   (c) Composition and essay in German
2. Philosophy: two papers as follows:
   (a) Introduction to philosophy
   (b) Reason and argument
3. One other approved subject.

FINAL EXAMINATION
The final examination will consist of an oral examination in German and the following papers (3 hours each):
1. German composition
2. Unprepared translation from German and German essay
3. Literature and prescribed texts I
4. Literature and prescribed texts II
5. Philosophical problems
6. *Either* Ethics *or* Political and social philosophy
7. History of modern philosophy. Candidates will be required to submit three essays by the end of the long vacation following the end of the second year.
8. A topic or period in German intellectual history
9. *In addition*, candidates will take a 3-hour paper on a special subject from the field of German or philosophy or involving both fields. *As an alternative*, candidates will present, by 1 April of their final year, an extended essay of not more than 10,000 words on a subject from the field of German or philosophy or involving both fields. The subjects for the special paper and for extended essays will be set with the agreement of both heads of department.
Candidates may also be required to present themselves for an oral examination in philosophy.

German and Theology

A scheme of study extending over a period of three years and leading to the degree of Bachelor of Arts in German and Theology.

COURSE REQUIREMENT
For admission to the scheme, passes in three approved subjects at advanced level are normally required, but candidates with only two subjects will also be considered.
One of these passes must be in German.

SCHEME OF STUDY
Candidates will be required to spend the third term of the second year in a German-speaking country and to attend courses in German and theology at a university approved by both heads of departments. The cost of residence abroad is not included in the normal fee for an arts scheme.

FIRST-YEAR EXAMINATION
1. German: an oral examination in German and three papers as follows:
   (a) Literature and prescribed texts
   (b) Unprepared translation
   (c) Composition and essay in German

2. Theology: two papers as follows:
   (a) New Testament Greek
   (b) History and religion of Israel to the beginning of the Exile, with introduction to the relevant literature of the Old Testament
3. One other approved subject.

FINAL EXAMINATION

The final examination will consist of an oral examination in German and the following papers (3 hours each):

1. German composition
2. Unprepared translation from German and German essay
3. Literature and prescribed texts I
4. Literature and prescribed texts II
5. Old Testament (with English text: in 1972 Job, Jeremiah 1-20; *or* Hebrew: in 1972 Deuteronomy 1-7, Isaiah 46-53)
6. New Testament (with prescribed text in Greek: in 1972 St. Matthew)
7. Biblical and historical theology *or* Christian theology
8. *One* of the following:
   Church history
   Philosophy of religion
   History of religion
9. *In addition*, candidates will take a 3-hour paper on a special subject from the field of German or theology or involving both fields. *As an alternative*, candidates will present, by 1 May of their final year, an extended essay of about 10,000 words on a subject from the field of German or theology or involving both fields. The subjects for the special paper and for extended essays will be set with the agreement of both heads of departments.

Candidates may also be required to present themselves for an oral examination in theology.

Greek

A scheme of study extending over a period of three years and leading to the degree of Bachelor of Arts in Greek.

COURSE REQUIREMENT

For admission to the scheme passes in two approved subjects at advanced level are required. *One* of these passes must be in Greek.

In addition candidates must have at least a pass in Latin at ordinary level. Some knowledge of a modern foreign language, preferably German, and of mathematics is desirable.

SCHEME OF STUDY

First Year

1. Greek literature, with prescribed texts in prose and verse.
2. Greek language, with translation from Greek into English and from English into Greek.
3. Latin, as prescribed for the one-year course for two-subject degree schemes.
4. Ancient history:
   (a) The ancient Near East and Greece
   (b) Ancient Rome and the Roman world.

A qualifying examination in these four subjects, which must normally be passed as a whole by candidates before they proceed to further study, will be held at the end of the first year.

*Second and third years**

1. The Greek genres prescribed for the one-subject scheme in classics (2 papers)
2. Translation from further Greek authors (1 paper)
3. General paper as for the one-subject scheme in classics (1 paper)
4. Greek unprepared translation (1 paper)

* The papers referred to in parentheses are those of the final examination.

5. Greek prose composition (1 paper)
6. A period of Greek history studied in connection with the original authorities (1 paper)
7. Development of the Greek language with an elementary knowledge of the dialects (1 paper)
8. *Either* one (one 3-hour paper) *or* two (two 1½-hour papers) of the following special subjects:
   (a) History of Greek language
   (b) Outlines of Greek philosophy
   (c) An approved subject in Greek literature
   (d) Greek art and architecture
   (e) Greek sculpture or vase painting or epigraphy
   (f) A subject in Greek history
   (g) Such other subject as may be approved by the head of the department

Greek verse composition may be offered as an *optional* subject in the final examination.

Candidates other than those who have already completed the scheme for the degree in Latin, may, in place of a certain number of the books prescribed in Greek, be permitted to substitute a certain number of the books prescribed for the scheme in Latin to be specified from year to year.

SPECIAL REQUIREMENT

Candidates are required to attend the two-year course in Latin and to pass the prescribed examinations in that subject.

Subject to the approval of the Board of the Faculties of Arts, Economic and Social Studies and Law, some modification of this requirement may be made for candidates who have distinguished themselves in the first-year course in Latin.

GREEK AS A SUBSIDIARY SUBJECT

1. Candidates for the degree in Latin as a single subject are required to attend for three years such courses in Greek as may be approved for them by the Board of Faculties of Arts, Economic and Social Studies and Law, and to pass the appropriate examinations. The subjects for examination will be:
   (a) Translation from Greek into English
   (b) Prescribed Greek texts
   (c) Greek tragedy and epic, studied in translation
2. Candidates for a single-subject degree in subjects other than Latin who offer Greek or Greek civilisation as a subsidiary subject will be required to attend such courses as may be appropriate, and to present themselves for examination at the end of the course.
3. Candidates for the degree in theology who offer Greek as a subject under the regulations of that school may, in appropriate cases, attend the course approved for candidates in the Department of Latin (see 1 above) and take the corresponding examination.

Greek Civilisation and Arabic

A scheme of study extending over three years and leading to the degree of Bachelor of Arts in Greek Civilisation and Arabic.

COURSE REQUIREMENT

For admission to the scheme passes in two approved subjects at advanced level are required and a third is preferred. One of these passes should normally be in Arabic or Greek. In exceptional circumstances evidence of marked ability in another language may be acceptable. Students beginning Greek will receive three hours' tuition a week in Greek language, students with Greek will receive two hours' tuition a week.

SCHEME OF STUDY

Candidates will normally be required to spend a period of at least one month during the summer vacation following their second year of study in attendance at a course in a recognised institution of learning in an Arabic-speaking country. The cost of residence abroad is not included in the normal fee for an arts scheme.

FIRST-YEAR EXAMINATION

1. Arabic: two papers as follows:
   (a) Grammar and composition
   (b) Prescribed texts and history.
2. Greek Civilisation: two papers as follows:
   (a) Greek language including prepared and unprepared translation
   (b) Greek civilisation
3. One other approved subject.

FINAL EXAMINATION

1. Homer; Greek tragedy
2. Greek historical writing; Greek art
3. General paper in Greek civilisation
4. Translation from Greek prescribed texts
5. Koran and Arabic poetry
6. Classical and modern Arabic prose
7. Translation into Arabic, with questions on grammar and stylistics
8. Arabic history and historical development of the language.

In addition candidates will be required to submit not later than 1 May an essay of 8,000 to 10,000 words on a subject which may relate to Arabic or to Greek civilisation or to some topic combining both these subjects. The title should be submitted to the heads of the two departments for approval at the beginning of the third year of the scheme.

Greek Civilisation and French

A scheme of study extending over three years (with an additional year spent abroad) and leading to the degree of Bachelor of Arts in Greek Civilisation and French.

COURSE REQUIREMENT

For admission to the scheme passes in two approved subjects at advanced level are required, and a third is preferred. *One* of these passes must be in French. Students beginning Greek will receive three hours' tuition a week in Greek language; students with Greek will receive two hours' tuition a week.

SCHEME OF STUDY

After their first year in the University candidates will be required to spend a year attending a course of study at a French-speaking university approved by both departments. If possible, arrangements will be made for students to take a post as *assistant* in the university town in question. The cost of residence abroad is not included in the normal fee for an arts scheme. During the third term of the pre-final year candidates will write a long essay on a subject approved by both departments.

FIRST-YEAR EXAMINATION

1. Greek Civilisation: two papers as follows:
   (a) Greek language including prepared and unprepared translation
   (b) Greek civilisation

2. French: An oral examination and the following two papers:
   (a) French language
   (b) 20th-century French literature and institutions
3. One other approved subject.

PART I EXAMINATION

Candidates will be examined at the end of the second term of the second year in 18th-century French thought (one 1½-hour paper). This paper will constitute Part I of the final examination for the degree of B.A. in Greek Civilisation and French.

FINAL EXAMINATION

The final examination will consist of an oral examination in French and the following papers:
1. Homer; Greek tragedy
2. Greek historical writing; Greek art
3. General paper in Greek civilisation
4. Translation from Greek prescribed texts
   (1 to 4 inclusive are all 3-hour papers)
5. Translation into French (one 3-hour paper)
6. Translation into English and essay in French (one 3-hour paper)
7. 16th-century French literature (one 1½-hour paper)
8. 19th-century French poetry (one 1½-hour paper)
9. 19th-century French novel (one 1½-hour paper)
10. Special subject in French (one 1½-hour paper)
11. Dissertation (to be written during the third term of the pre-final year and presented by the end of September of that year).

Greek Civilisation and Hebrew

A scheme of study extending over three years and leading to the degree of Bachelor of Art in Greek Civilisation and Hebrew.

COURSE REQUIREMENT

For admission to the scheme passes in two approved subjects at advanced level are required and a third is preferred. One of these passes should normally be in Greek or Hebrew. In exceptional circumstances evidence of marked ability in another language may be acceptable. Students beginning Greek will receive three hours' tuition a week in Greek language; students with Greek will receive two hours' tuition a week.

SCHEME OF STUDY

Candidates will be required to spend a period of at least one month during the summer vacation following their second year of study in attendance at a course in a recognised institution of learning in Israel. The cost of residence abroad is not included in the normal fee for an arts scheme.

FIRST-YEAR EXAMINATION

1. Greek Civilisation: two papers as follows:
   (a) Greek language including prepared and unprepared translation
   (b) Greek civilisation
2. Hebrew: two papers as follows:
   (a) Grammar and translation
   (b) Prescribed texts and history
3. One other approved subject.

FINAL EXAMINATION
1. Homer; Greek tragedy
2. Greek historical writing; Greek art
3. General paper in Greek civilisation
4. Translation from Greek prescribed texts
   (Two 3-hour papers)
5. Hebrew: Old Testament: prose and poetry
6. Hebrew: post-biblical to modern
7. Translation into classical and modern Hebrew, with questions on grammar and style
8. Hebrew history and the historical development of the language.

In addition candidates will be required to submit not later than 1 May an essay of 8,000 to 10,000 words on a subject which may relate to Greek civilisation or to Hebrew or to some topic combining both these subjects. The title should be submitted to the heads of the two departments for approval at the beginning of the third year of the scheme.

Greek Civilisation and Religious Studies

A scheme of study extending over three years and leading to the degree of Bachelor of Arts in Greek Civilisation and Religious Studies.

COURSE REQUIREMENT
For admission to the scheme passes in two approved subjects at advanced level are required and a third is preferred. A pass at ordinary level in a language other than English is required. Students beginning Greek will receive three hours' tuition a week in Greek language during the first year of study; students already possessing some knowledge of Greek will receive two hours' tuition a week.

FIRST-YEAR EXAMINATION
1. Greek Civilisation: two papers as follows:
   (a) Greek language including prepared and unprepared translation.
   (b) Greek civilisation.
2. Philosophy and History of Religion: two papers.
3. One other approved subject.

FINAL EXAMINATION
1. Homer; Greek tragedy
2. Greek historical writing; Greek art
3. General paper in Greek civilisation
4. Translation from Greek prescribed texts
5. Elementary Sanskrit
6. Indian religion and culture
7. Judaism and Christianity in the Roman Empire
8. Philosophy of religion.

In addition candidates will be required to submit not later than 1 May an essay of 8,000 to 10,000 words on a subject which may relate to Greek civilisation or to religious studies or to some topic combining both these subjects. The title should be submitted to the heads of the two departments for approval at the beginning of the third year of the scheme. Instead of the essay a further examination paper in a special subject may be taken, with the approval of the heads of the departments.

Greek Civilisation and Theology

A scheme of study extending over three years and leading to the degree of Bachelor of Arts in Greek Civilisation and Theology.

COURSE REQUIREMENT
For admission to the scheme passes in two approved subjects at advanced level are required and a third is preferred. A pass at ordinary level in a language other than English is preferred. Students beginning Greek will receive three hours' tuition a week in Greek language during the first year of study; students already possessing some knowledge of Greek will receive two hours' tuition a week.

FIRST-YEAR EXAMINATION
1. Greek Civilisation: two papers as follows:
   (a) Greek language including prepared and unprepared translation
   (b) Greek civilisation
2. Theology: two papers as follows:
   (a) New Testament
   (b) History and religion of Israel to the beginning of the Exile, with an introduction to the relevant literature of the Old Testament
3. One other approved subject.

FINAL EXAMINATION
1. Homer; Greek tragedy
2. Greek historical writing; Greek art
3. General paper in Greek civilisation
4. Translation from Greek prescribed texts
5. Old Testament (with English text: in 1972 Job, Jeremiah, 1-20; *or* Hebrew: in 1972 Deuteronomy 1-7, Isaiah 46-53)
6. New Testament (with prescribed Greek text: in 1972 St. Matthew)
7. Biblical and historical theology
8. Jewish and Christian Greek literature.

In addition candidates will be required to submit not later than 1 May an essay of 8,000 to 10,000 words on a subject which may relate to Greek civilisation or to theology or to some topic combining both these subjects. The title should be submitted to the heads of the two departments for approval at the beginning of the third year of the scheme. Instead of the essay a further examination paper in a special subject may be taken, with the approval of the heads of the departments.

Hebrew and Religious Studies

A scheme of study extending over a period of three years and leading to the degree of Bachelor of Arts in Hebrew and Religious Studies.

COURSE REQUIREMENT
For admission to the scheme passes in two approved subjects at advanced level are required and a third is preferred.

SCHEME OF STUDY
Candidates will normally spend the third term of their second year, or a period of at least one month during the long vacation following, at a Hebrew-speaking university or institution of learning approved by the head of the Department of Semitic Studies. The cost of residence abroad is not included in the normal fee for an arts scheme.

FIRST-YEAR EXAMINATION
1. Hebrew (2 papers)
2. Philosophy and history of religion (2 papers)
3. One other approved subject.

FINAL EXAMINATION
1. Pre-Exilic Biblical Hebrew texts
2. Post-Exilic Biblical Hebrew texts
3. Translation into Biblical Hebrew and questions on grammar and stylistics
4. Hebrew history and culture
5. History and religion of Israel to A.D. 70 (with illustrative texts in English)
6. History of religion II
7. History of religion IIIb (sociology of religion)
8. Philosophy of religion.

In addition, candidates will be required to submit by the end of the second term of the final year an essay of 8,000 to 10,000 words on a subject which may relate to Hebrew or to religious studies or to some topic combining both these subjects. The title should be submitted to the heads of the two departments for approval at the beginning of the final year of the scheme. Candidates may also be required to present themselves for an oral examination.

Hebrew and Theology

A scheme of study extending over a period of three years and leading to the degree of Bachelor of Arts in Hebrew and Theology.

COURSE REQUIREMENT
For admission to the scheme passes in two approved subjects at advanced level are required and a third is preferred.

SCHEME OF STUDY
Candidates will normally be required to spend a period of at least one month's duration in attendance at a course in a recognized institution of learning in Israel. The cost of residence abroad is not included in the normal fee for an arts scheme.

FIRST-YEAR EXAMINATION
1. Hebrew: Hebrew grammar and prescribed reading (2 papers)
2. Theology: two papers as follows:
   (a) New Testament Greek
   (b) History and religion of Israel to the beginning of the Exile, with an introduction to the relevant literature of the Old Testament
3. One other approved subject.

FINAL EXAMINATION
1. Biblical Hebrew texts
2. Post-biblical Judaism
3. Palestinian archaeology
4. Old Testament (with English text: in 1972 Job, Jeremiah 1-20)
5. New Testament (with prescribed text in Greek: in 1972 St. Matthew)
6. Biblical and historical theology
7. History of religion
8. *Either* Philosophy of religion *or* Church history *or* Selected medieval Hebrew texts bearing on Jewish philosophy and theology

In addition, candidates will be required to submit not later than 1 May an essay of 8,000 to 10,000 words on a subject which relates to Hebrew or theology or to some topic combining both these subjects. The title should be submitted to the heads of the two departments at the beginning of the third year. Candidates may also be required to present themselves for an oral examination.

History

A scheme of study extending over a period of three years and leading to the degree of Bachelor of Arts in History.

COURSE REQUIREMENT

Passes in two approved subjects at advanced level are required. These passes may be in any approved subject. In addition a reading knowledge of one language other than English will be required. A reading knowledge of a second foreign language would be advantageous.

EXAMINATIONS

The examinations for the degree of Bachelor of Arts in history will normally be taken at the end of the candidate's first and third years respectively. The first-year examination will be treated as a qualifying examination and candidates will be advised on their subsequent courses of study on the basis of their performance therein.

FIRST-YEAR EXAMINATION

1. Two papers selected with the approval of the chairman of the School of History from:
   (a) The ancient Near East and Greece
   (b) Ancient Rome and the Roman world
   (c) Medieval Europe
   (d) Early modern Europe (to *c.* 1789)
   (e) The making of the modern world.
2. (1 paper) A special subject selected from a prescribed list. Students who offer (a) and (b) under 1 above may, with the permission of the chairman of the School of History, offer a further paper under 1 instead of a special subject.
3. The prescribed examinations on an approved one-year course in one other subject.

Students are also required to attend an introductory course in British history.

FINAL EXAMINATION

1. The history of Britain (3 papers)
   (a) from the earliest times to the end of the 14th century
   (b) from the end of the 14th century to the end of the 17th century
   (c) from the end of the 17th century
2. *One* of the following subjects in European history* (1 paper):
   (a) Greek history from 510 B.C. to 404 B.C.
   (b) Roman history from 166 B.C. to 44 B.C.
   (c) Roman history from 44 B.C. to A.D. 117
   (d) European towns 950 to 1250
   (e) The Church in the later Middle Ages
   (f) France in the 13th century
   (g) Reform and society in Europe 1450 to 1600
   (h) France and Europe in the 17th and 18th centuries
   (i) European social and intellectual history 1815 to 1918.
3. *One* of the following subjects in world history* (1 paper):
   (a) History of the provinces and frontiers of the Roman Empire†
   (b) Material evidences of 12th-century cultures
   (c) The Vikings
   (d) The expansion of Europe 1492 to 1783
   (e) History of the United States of America from 1783
   (f) History of Eastern Asia from 1840
   (g) History of Russia from 1856
   (h) Economic history of the modern world from *c.* 1850
   (i) History of international relations 1871 to 1949.

* Not all these subjects will necessarily be offered every year, and the lists may be varied from time to time.
† A period of three weeks' excavation is an integral part of the courses in these subjects.

4. *One* of the following special subjects* (2 papers):
   (a) Greek federalism
   (b) Rome, the Latins and the Italian question
   (c) The Severan period, A.D. 193 to 235
   (d) The history and archaeology of Roman Britain†
   (e) The history and archaeology of the medieval town†
   (f) The Norman Conquest
   (g) The reign of King John
   (h) Church and State in the time of Wyclif
   (i) The usurpation of Richard III
   (j) The government of England, 1540 to 1553
   (k) The North of England in the 16th and 17th centuries
   (l) Court and country under Charles I, 1625 to 1642
   (m) Great Britain and America 1774 to 1795
   (n) The French Revolution
   (o) England and Ireland 1850 to 1874
   (p) The origins of the American Civil War
   (q) British domestic history 1906 to 1929
   (r) The international crisis 1929 to 1939

With the permission of the chairman of the School students may offer an approved subject in economic history or the history of science or the history of art in satisfaction of the requirements of this part of the course.

5. The history of political *or* scientific thought *or* an additional paper from *either* 2 *or* 3.

6. A dissertation *or* an additional paper from *either* 2 *or* 3.

Subject to the permission of the head of department, candidates may exercise the option of offering additional papers in European and/or world history under both 5 and 6.

All candidates will be required, as a compulsory and integral part of the studies for a degree, to attend a residential study course, normally of four days' duration, away from the University, during the second year.

History and Latin

A scheme of study extending over a period of three years and leading to the degree of Bachelor of Arts in History and Latin.

COURSE REQUIREMENT

For admission to the scheme passes in two approved subjects at advanced level are required, and a third is preferred.
One of these passes must be in Latin.

SCHEME OF STUDY

FIRST-YEAR EXAMINATION

1. History (two papers)
   (a) Ancient Rome and the Roman world
   (b) Medieval Europe
2. Latin (two papers)
   (a) Latin language, including unprepared translation
   (b) Latin literature and prescribed texts
3. One other approved subject.

* Not all these subjects will necessarily be offered every year, and the lists may be varied from time to time.
† A period of three weeks' excavation is an integral part of the courses in these subjects.

FINAL EXAMINATION

1 and 2. *Two* of the following*:
(a) Roman history from 166 B.C. to 44 B.C.
(b) Roman history from 44 B.C. to A.D. 117
(c) The decline of the Roman Empire in the West
3. The history of Britain from the earliest times to the end of the 14th century
4. *One* of the following:
(a) European towns 950 to 1250
(b) France in the 13th century
5. *One* of the following:
(a) Greek history from 510 B.C. to 404 B.C.
(b) Latin general paper
6. Latin language, including unprepared translation
7. Latin literature: prescribed books I
8. Latin literature: prescribed books II. A number of texts including some in Medieval Latin will be prescribed from the post-classical period.
9. *Two* of the following subjects* (1 paper):
(a) Latin tragedy and comedy
(b) Latin epic
(c) Latin pastoral poetry
(d) Latin satire
(e) An approved special subject (e.g. Roman historiography).

History and Philosophy

A scheme of study extending over a period of three years and leading to the degree of Bachelor of Arts in History and Philosophy.

COURSE REQUIREMENT

For admission to the scheme passes in two approved subjects at advanced level are required and a third is preferred.

FIRST-YEAR EXAMINATION

1. History: two papers as follows:
(a) Ancient Rome and the Roman world
(b) Medieval Europe†
2. Philosophy: two papers as follows:
(a) Introduction to philosophy
(b) Reason and argument
3. One other approved subject.

FINAL EXAMINATION

1 and 2. *Either* The history of Britain from the end of the 14th century to the end of the 17th century *and* The history of Britain from the end of the 17th century *or* France and Europe in the 17th and 18th centuries *and* European social and intellectual history 1815 to 1918.
3. An additional history paper chosen, with the approval of the chairman of the School of History, from among the options in European history prescribed for the final examination in history.
4. Philosophical problems
5. Ethics
6. The history of *either* ancient and medieval *or* modern philosophy. (Candidates will be required to submit three essays; for the history of modern philosophy examination, candidates will submit three essays by the end of the long vacation following the end of the second year;

* Not all these will necessarily be available in each year.
† In exceptional cases with the approval of the chairman of the School of History candidates may be allowed to choose alternative papers from the options prescribed for the first-year examination in History.

for the history of ancient and medieval philosophy examination, candidates will submit three essays by the end of the Easter vacation in the final year).
7. History of political thought *or* history of scientific thought
8. Philosophy of history
9. *Either* A special subject in history *or* in philosophy *or* an extended essay of not more than 10,000 words on a topic in history or philosophy or common to both, to be chosen with the approval of the departments concerned and submitted not later than 1 May in the candidate's final year of study.
In addition candidates may be required to present themselves for an oral examination.

History and Portuguese

A scheme of study extending over a period of three years (with an additional year spent abroad) and leading to the degree of Bachelor of Arts in History and Portuguese.

COURSE REQUIREMENT

For admission to the scheme passes in two approved subjects at advanced level are required and a third is preferred.
One of the passes must be in a modern language.

SCHEME OF STUDY

Candidates will normally be required to spend one year in a Portuguese-speaking country between the second and third years of this scheme. With the permission of the heads of the two departments, they may be allowed, in lieu of this requirement, to spend two periods of at least one month each in Portugal during the long vacations of their first and second years, these periods to include attendance at approved courses of study. The cost of residence abroad is not included in the normal fee for an arts scheme.

FIRST-YEAR EXAMINATION

1. History: two papers, selected with the approval of the chairman of the School of History, from the following:
   (a) The ancient Near East and Greece
   (b) Ancient Rome and the Roman world
   (c) Medieval Europe
   (d) Early modern Europe (to *c.* 1789)
   (e) The making of the modern world
2. Portuguese: an oral examination and the following two papers:
   (a) Language
   (b) Modern literature
3. One other approved subject.

FINAL EXAMINATION

The final examination will consist of an oral examination in Portuguese and the following papers:
1. Reform and society in Europe 1450 to 1600
2. The expansion of Europe 1492 to 1783
3. France and Europe in the 17th and 18th centuries
4. *Either* European social and intellectual history 1815 to 1918 *or* History of international relations 1871 to 1949
5. O Quinhentismo
6. The 19th-century Portuguese novel
7. Brazilian literature
8. Translation into Portuguese
9. Translation from Portuguese and essay in Portuguese
In addition candidates will be required to present by 1 December in their final year an essay in English of some 8,000 words within the field of history or Portuguese, or combining both subjects.

History and Religious Studies

A scheme of study extending over a period of three years and leading to the degree of Bachelor of Arts in History and Religious Studies.

COURSE REQUIREMENT

For admission to the scheme passes in two approved subjects at advanced level are required, and a third is preferred.

FIRST-YEAR EXAMINATION

1. History: two papers selected with the approval of the chairman of the School of History from the following:
   (a) The ancient Near East and Greece
   (b) Ancient Rome and the Roman world
   (c) Medieval Europe
   (d) Early modern Europe (to *c.* 1789)
   (e) The making of the modern world
2. Religious studies:
   Philosophy and history of religion (2 papers)
3. One other approved subject. The choice of third subject should normally be limited to theology or philosophy; in special cases another subject may be chosen with the approval of the heads of the two departments.

Second and Third Years

FINAL EXAMINATION

1. Roman history from 44 B.C. to A.D. 117
2. Judaism and Christianity in the Roman Empire
3. *Either* The Church in the later Middle Ages *or* Reform and society in Europe 1450 to 1600
4. The expansion of Europe 1492 to 1783
5. The history of Britain from the earliest times to the end of the 14th century *or* the history of Britain from the end of the 17th century.
6. Religion and society
7. Philosophy of religion
8. Church history
9. An additional history paper chosen with the approval of the chairman of the School of History from the options in European history prescribed for the final examination in history *or* political thought *or* a long essay of not more than 10,000 words on a subject relating to the fields either of history or of religious studies or common to both, to be chosen with the approval of the departments concerned and submitted not later than 1 May.

History and Russian Studies

Two schemes of study leading to the degree of Bachelor of Arts in History and Russian Studies, one extending over three years and the other extending over four years.

COURSE REQUIREMENT

For admission to the scheme passes in two approved subjects at advanced level are required, and a third is preferred.

For admission to the three-year scheme *one* of these passes must be in Russian. Candidates with little or no previous knowledge of Russian may be accepted for the four-year scheme.

Students may also be accepted on transfer from the first year of the four-year scheme in Russian studies.

SCHEME OF STUDY

Candidates will normally be required to spend a period of not less than three months in the U.S.S.R. or a comparable period in an Eastern European country at an appropriate point in the scheme. The cost of residence abroad is not included in the normal fee for an arts scheme.

FIRST-YEAR EXAMINATION (three-year scheme)

1. History: two papers selected with the approval of the chairman of the School of History from the following:
   (a) The ancient Near East and Greece
   (b) Ancient Rome and the Roman world
   (c) Medieval Europe
   (d) Early modern Europe (to *c.* 1789)
   (e) The making of the modern world
2. Russian studies (two papers):
   (a) Russian language
   (b) Outline of Russian history to 1856
3. One other approved subject.

FINAL EXAMINATION

1. European social and intellectual history 1815 to 1918
2. Economic history of the modern world (from *c.* 1850)
3. History of international relations 1871 to 1949
4. *Either* History of Eastern Asia from 1840 *or* History of the United States of America from 1783
5. History of Russia from 1856
6. A dissertation of not more than 10,000 words on an approved subject relating to *either* the emancipation of the Russian serfs *or* the Russian revolutions of 1917, to be submitted by 1 May.
7. Russian composition and translation
8. Essay in Russian
9. *One* of the following:
   (a) The development of 19th-century Russian radical thought
   (b) Russian Church
   (c) Tolstoy
   (d) Chekhov and Gorky
   (e) Soviet novel
   (f) Geography of the U.S.S.R.
   (g) Government and politics of the U.S.S.R.
   (h) Soviet foreign policy from 1917
10. Turgenev and Dostoevsky

In addition candidates must present themselves for an oral examination.

History and Spanish

A scheme of study extending over a period of three years (with an additional year spent abroad) and leading to the degree of Bachelor of Arts in History and Spanish.

COURSE REQUIREMENT

For admission to the scheme passes in two approved subjects at advanced level are required, and a third is preferred.
One of the passes must be in Spanish.

SCHEME OF STUDY

Candidates will normally be required to spend one year in a Spanish-speaking country between the second and third year of this scheme. With the permission of the head of the department of Spanish, they may be allowed, in lieu of this requirement, to spend a period of at least two

months in Spain during the long vacation of either their first or second year, this period to include attendance at approved courses of study. The cost of residence abroad is not included in the normal fee for an arts scheme.

FIRST-YEAR EXAMINATION

1. History: two papers, selected with the approval of the chairman of the School of History, from the following:
   (a) The ancient Near East and Greece
   (b) Ancient Rome and the Roman world
   (c) Medieval Europe
   (d) Early modern Europe (to *c.* 1789)
   (e) The making of the modern world.
2. Spanish: an oral examination and the following two papers:
   (a) Language
   (b) Modern literature

In addition, students will attend selected essay tutorials during the year, and the work done for these will be taken into account.

3. One other approved subject.

FINAL EXAMINATION

The final examination will consist of an oral examination in Spanish and the following papers:

1. Reform and society in Europe 1450 to 1600
2. The expansion of Europe 1492 to 1783
3. France and Europe in the 17th and 18th centuries
4. *Either* European social and intellectual history 1815 to 1918 *or* History of international relations 1871 to 1949
5. *One* of the following options:
   (a) Spanish-American literature
   or
   (b) Any other final-year literature course (Spanish) which it may be possible from time to time to offer with the approval of the heads of both departments
6. Golden Age literature
7. Special subject (Spanish literature): one sessional course or two semester courses
8. Translation into Spanish
9. Translation from Spanish and essay in Spanish

In addition candidates will be required to present by 1 December in their final year an essay in English of some 8,000 words within the field of history or Spanish, or combining both subjects.

History and Theology

A scheme of study extending over a period of three years and leading to the degree of Bachelor of Arts in History and Theology.

COURSE REQUIREMENT

For admission to the scheme passes in two approved subjects at advanced level are required, and a third is preferred.

FIRST-YEAR EXAMINATION

1. History: two papers selected with the approval of the chairman of the School of History from the following:
   (a) The ancient Near East and Greece
   (b) Ancient Rome and the Roman world
   (c) Medieval Europe
   (d) Early modern Europe (to *c.* 1789)
   (e) The making of the modern world

2. Theology (two papers):
   (a) New Testament Greek
   (b) History and religion of Israel to the beginning of the Exile, with an introduction to the relevant literature of the Old Testament
3. One other approved subject.

FINAL EXAMINATION

1. Roman history from 44 B.C. to A.D. 117
2. The Church in the Roman Empire*
3. The Church in the later Middle Ages *or* Reform and society in Europe 1450 to 1600 *or* European social and intellectual history 1815 to 1918
4. A paper in church history appropriate to the period of history chosen under 3
5 and 6. *Two* of the following:†
   (a) The history of Britain from the earliest times to the end of the 14th century
   (b) European towns 950 to 1250
   (c) France in the 13th century
   (d) France and Europe in the 17th and 18th centuries
7. Old Testament (with English texts: in 1972 Job, Jeremiah 1-20; *or* Hebrew: in 1972 Deuteronomy 1-7, Isaiah 46-53)
8. New Testament (with prescribed text in Greek: in 1972 St. Matthew)
9. Christian theology

International History and Politics

A scheme of study extending over a period of three years and leading to the degree of Bachelor of Arts in International History and Politics.

COURSE REQUIREMENT

For admission to the scheme, passes in two approved subjects at advanced level are required, and a third is preferred.
One of these passes should be in history.
A reading knowledge of an approved foreign language is required, and a reading knowledge of a second foreign language would be advantageous.

SCHEME OF STUDY

‡*First Year*
1. History and diplomatic documents
2. Politics
3. Economics

A qualifying examination consisting of three papers in each of history and diplomatic documents and politics and two papers in economics, which must be passed by candidates before they proceed to further study, will be held at the end of the first year.

Second and Third Years
1. European social and intellectual history 1815 to 1918
2. History of international relations 1871 to 1949
3. A special subject in diplomatic history (2 papers)
4. Politics (2 papers)
5. International relations
6. International organisations

* For the topics offered in church history see pages C194-5
† Not all these subjects will necessarily be offered every year, and the list may be varied from time to time.
‡ In special circumstances candidates may, with the approval of the chairman of the School of History, and the head of the Department of Social Studies, substitute for this normal first-year course, a first-year course from another degree scheme.

7. *Either* an optional subject to be selected from the courses offered for the final examination in either the degree in history or the degree in political studies to be selected with the approval of the chairman of the School of History or the head of the Department of Social Studies

Or a dissertation in history on a subject approved by the chairman of the School of History.

Italian

Two schemes of study leading to the degree of Bachelor of Arts in Italian Language and Literature, one extending over three years and the other extending over four years.

COURSE REQUIREMENT

For admission to either scheme of study, passes in two approved subjects at advanced level are required and three are preferred.

In the case of the three-year scheme *one* of these passes should normally be in Italian. In the case of the four-year scheme no qualification in Italian is required, provided that a high degree of linguistic ability has been shown in another modern European language at advanced level.

In addition a pass in Latin at ordinary level is required for both schemes.

THREE-YEAR SCHEME

First Year

1. Italian language and literature
2. Latin, French, German, Spanish or English
3. A second subject from (2) or another approved subject
4. A period or periods of Italian civilisation

A qualifying examination in these subjects which must normally be passed by candidates before they proceed to further study will be held at the end of the first year. The student shall normally pass the whole of the qualifying examination in June (or at the supplementary examinations in September). He may, however, be granted permission by the head of the Department to proceed to the second year of the scheme in Italian after a failure to complete the qualifying examination provided that:

(a) he has failed in only one subject (not Italian) and
(b) in the opinion of the head of the department concerned he is likely to pass in the subject before the beginning of the third year of study.

During the second year candidates shall be required to attend courses in the subjects of the school for not less than eight hours a week, such courses to include lectures on Italian civilisation.

The third term of the second year will be spent at an approved course of study in Italy. The cost of residence abroad is not included in the normal fee for an arts scheme.

During the third year candidates shall be required to attend courses in the subjects of the school for not less than nine hours a week.

Candidates may be required in any year to attend courses of lectures given in other departments which may be helpful to their studies in the subjects of the school.

In addition to the subjects of the school each candidate will be required to pursue a prescribed course and present himself for the necessary examination in one other subject included in the Faculty of Arts and approved by the head of the Department of Italian for a period extending over three years.

FOUR-YEAR SCHEME

First Year

1. Italian language (grammar, translation into Italian, translation into English), literature and prescribed texts
2. Latin, French, German, Spanish or English
3. A second subject from (2), or another approved subject
4. Phonetics of Italian

At the end of the first year of the course candidates must present themselves for the following examinations:

The preliminary examinations in Italian language, literature and prescribed texts, and phonetics of Italian (3 papers)

The qualifying examination in at least one of the subjects in 2 and 3.

Normally a candidate will not be allowed to proceed to further study until he has passed the preliminary examination in Italian language, literature and prescribed texts, and phonetics of Italian, and in one of the subjects of the qualifying examination.

Second Year

1. Italian language and literature
2. A period of Italian civilisation
3. Further work in a subject approved under 2 or 3 of the first-year course

A qualifying examination in the subjects under 1 and 2, which must normally be passed by candidates before they proceed to further study, will be held at the end of the second year. Candidates will also normally be required to pass the prescribed examination in the subject taken in 3.

During the third year candidates shall be required to attend courses in the subjects of the school for not less than eight hours a week, such courses to include lectures on Italian civilisation.

The third term of the third year will be spent at an approved course of study in Italy. The cost of residence abroad is not included in the normal fee for an arts scheme.

During the fourth year candidates shall be required to attend courses in the subjects of the school for not less than nine hours a week.

Candidates may be required in any year to attend courses of lectures given in other departments which may be helpful to their studies in the subjects of the school.

In addition to the subjects of the school each candidate will be required to pursue a prescribed course and present himself for the necessary examination in one other subject included in the Faculty of Arts and approved by the head of the Department of Italian for a period extending over three years.

EXAMINATIONS

THREE-YEAR SCHEME

The qualifying examination at the end of the first year shall consist of an oral examination and the following papers:

Composition and unseen translation (1 paper)

Literature and prescribed texts (2 papers)

Italian civilisation (1 paper)

Essay in Italian (1 paper)

The final examination at the end of the third year shall consist of an oral examination and the following papers:

Composition and unseen translation (1 paper)

Essay in Italian (1 paper)

Literature, prescribed texts and Italian civilisation (3 papers)

History of the language (1 paper)

Special subjects (2 papers)

One of the special subjects may be replaced by a dissertation on a subject approved by the head of the Department.

FOUR-YEAR SCHEME

(a) The preliminary examination at the end of the first year shall consist of an oral examination and the following papers in Italian:
Translation, composition and essay (1 paper)
Literature and prescribed texts (1 paper)
Phonetics of Italian (1 1½ hour paper)
(b) A qualifying examination at the end of the second year shall consist of an oral examination and the following papers in Italian:
Composition and unseen translation (1 paper)
Literature and prescribed texts (2 papers)
Italian civilisation (1 paper)
Essay in Italian (1 paper)
(c) The final examination at the end of the fourth year shall take the form prescribed for final-year candidates taking the three-year scheme.

Italian and Latin

Two schemes of study leading to the degree of Bachelor of Arts in Italian and Latin, one extending over three years and the other, for students with no previous knowledge of Italian, extending over four years. In both schemes a period will be spent abroad.

COURSE REQUIREMENT

For admission to either scheme of study, passes in two approved subjects at advanced level are required, and a third is preferred.

In the case of the three-year scheme, *one* of the passes should normally be in Italian and another must be in Latin.

In the case of the four-year scheme, *one* pass must be in Latin and another in *either* French *or* Spanish.

SCHEME OF STUDY

Except with the special permission of the heads of the two Departments concerned, the third term of the second year of the three-year scheme, or the third term of the third year of the four-year scheme, will be spent in Italy attending an approved course of study; alternatively, a year will be spent in residence in Italy between the second and third years of the three-year scheme or between the third and fourth years of the four-year scheme. The cost of residence abroad is not included in the normal fee for an arts scheme.

A. THREE-YEAR SCHEME

FIRST-YEAR EXAMINATION

1. Italian: an oral examination in Italian and the following two papers:
   (a) Italian translation and composition
   (b) Literature and prescribed texts
2. Latin: two papers:
   (a) Latin language, including unprepared translation
   (b) Literature and prescribed texts
3. One other approved subject

FINAL EXAMINATION

The final examination shall consist of an oral examination in Italian and the following papers:
1. Italian translation and composition (1 paper)
2. Essay in Italian (1 paper)
3. Italian literature and civilisation to 1400 (1 paper)
4. Literature and civilisation of the Italian Renaissance (1 paper)
5. Dante (1 paper) *or* History of the Italian language (1 paper) *or* Special subject in Italian (1 paper)

6. Latin language, including unprepared translation (1 paper)
7. Latin literature: prescribed books I (1 paper)
8. Latin literature: prescribed books II (1 paper) (to include texts from the post-classical period)
9. *Two* of the following (1 paper):
   (a) Latin tragedy and comedy
   (b) Latin epic
   (c) Latin pastoral poetry
   (d) Latin satire
   (e) An approved period or topic of Roman history
   (f) An introduction to Graeco-Roman philosophy
   (g) An approved special subject
   (Not all these subjects will necessarily be offered each year, and the list may be varied from time to time.)
10. Latin general paper

N.B. With the consent of the heads of both Departments concerned, candidates may offer in place of papers 5 and 10 an essay of 8,000 to 10,000 words in English on an approved subject in Italian or Latin or linking the two fields of study.

B. FOUR-YEAR SCHEME

SCHEME OF STUDY

Candidates will take a preliminary first-year course in Italian and the same first-year course in Latin as for the three-year scheme. In the second year they will take the same course in Italian and Latin as for the first year and the second year respectively of the three-year scheme. During the third year they will take the same course in Italian as for the second year of the three-year scheme and an auxiliary course in Latin for which special arrangements will be made for the first two terms. The fourth year will be the same as the third year of the three-year scheme.

FIRST-YEAR EXAMINATION

1. Italian: An oral examination in Italian and the following two papers:
   (a) Composition, translation and essay
   (b) Literature and prescribed texts
2. Latin: as for the first year of the three-year scheme
3. One other approved subject

SECOND-YEAR EXAMINATION

Italian: as for the first year of the three-year scheme. Candidates will be required to pass the second-year examination in Italian before proceeding to the third and fourth years of the scheme.

FINAL EXAMINATION

As for the final examination for the three-year scheme.

Italian and Music

A scheme of study extending over a period of three years, including a period spent abroad, and leading to the degree of Bachelor of Arts in Italian and Music.

COURSE REQUIREMENT

For admission to the scheme, passes in two approved subjects at advanced level are required. *One* of the passes should normally be in Italian. It is preferred that the second should be in music.

SCHEME OF STUDY

Except with the special permission of the heads of the two departments concerned, the third term of the second year will be spent in Italy attending an approved course of study. The cost of residence abroad is not included in the normal fee for an arts scheme.

FIRST-YEAR EXAMINATION

1. Italian: an oral examination in Italian and the following two papers:
   (a) Italian translation and composition
   (b) Literature and prescribed texts
2. Music (2 papers):
   (a) Harmony and counterpoint
   (b) History of music 700 to 1720
   Practical training
3. One other approved subject.

FINAL EXAMINATION

The final examination shall consist of an oral examination in Italian and oral and practical examinations in music, and the following papers:

1. Italian translation and composition (1 paper)
2. Essay in Italian (1 paper)
3. Italian literature and civilisation to 1400 (1 paper)
4. Literature and civilisation of the Italian Renaissance (1 paper)
5. History of music since 1880
6 and 7. Stylistic studies
8. Special subject in music
9. Acoustics.*

Candidates will also be requested to submit an essay of 8,000 to 10,000 words in English on an approved subject in Italian or music or linking the two fields of study.

Latin

A scheme of study extending over a period of three years and leading to the degree of Bachelor of Arts in Latin.

COURSE REQUIREMENT

For admission to the scheme passes in two approved subjects at advanced level are required. *One* of these passes must be in Latin.

In addition a knowledge of Greek is desirable but not essential. Candidates with no knowledge of Greek will be expected to take an introductory course in Greek in the first year.

SCHEME OF STUDY

First Year

1. Latin language and literature
2. Greek
3. Ancient history:
   (a) The ancient Near East and Greece
   (b) Ancient Rome and the Roman world.

A qualifying examination in these subjects, which must normally be passed as a whole by candidates before they proceed to further study, will be held at the end of the first year.

Second and Third Years

1. The Latin books prescribed for the one-subject scheme in classics (2 papers)
2. Further Latin books (1 paper)
3. General paper as for the one-subject scheme in classics (1 paper)
4. Latin unprepared translation (1 paper)
5. Latin prose composition *or* linguistic exercise (1 paper)
6. A period of Roman history studied in connection with the original authorities (1 paper)
7. *Either* History and archaeology of Roman Britain† (one 3-hour paper) *or two* of the following special subjects (two 1½-hour papers):
   (a) An approved subject in Latin literature

* The acoustics course is given in alternate years. Candidates will take the paper in acoustics in the year in which they attend the course.
† Candidates taking this course will have an opportunity to take part in archaeological excavations.

(b) An approved subject in Roman history
(c) Greek *or* Roman art and architecture
(d) Stoicism and Epicureanism in Roman life and thought
(e) Another special subject approved by the head of the Department.

Candidates other than those who have already completed the scheme for the degree in Greek may, in place of a certain number of the books prescribed in Latin, be permitted to substitute a certain number of the books prescribed for the scheme in Greek to be specified from year to year.

Latin verse composition may be offered as an optional extra paper, merit in which will be taken into account in the final assessment.

SPECIAL REQUIREMENT

Candidates must attend for three years such courses in Greek as may be approved for them by the Board of the Faculties of Arts, Economic and Social Studies and Law, and pass the appropriate examination.

Some modification of the special requirement may be made, subject to the approval of the Board of the Faculties of Arts, Economic and Social Studies and Law.

LATIN AS A SUBSIDIARY SUBJECT

Students in *other* single-subject schemes taking Latin as a subsidiary subject for three years will be required to take the following courses:

Prose composition *or* linguistic exercise, Unprepared translation, Prescribed books, Latin literature.

The prescribed books will be selected from the books prescribed for the two-year course in Latin. These books will be examined at the time of the final examination. The examination in the subsidiary subject is an integral part of the final degree examination.

For Roman civilisation see page C188)

Latin and Spanish

A scheme of study extending over a period of three years (with an additional period abroad) and leading to the degree of Bachelor of Arts in Latin and Spanish.

COURSE REQUIREMENT

For admission to the scheme passes at advanced level in Latin and Spanish are required and a pass in a third subject is preferred.

SCHEME OF STUDY

Candidates will be required to spend one year in a Spanish-speaking country between the second and third years of these schemes. With the permission of the heads of both Departments they may be allowed, in lieu of this requirement, to spend a period of at least two months in Spain during the long vacation of either their first or second year, this period to include attendance at approved courses of study. The cost of residence abroad is not included in the normal fee for an arts scheme.

FIRST-YEAR EXAMINATION

1. Latin: the following two papers:
   (a) Latin language, including unprepared translation
   (b) Latin literature and prescribed texts

2. Spanish: an oral examination in Spanish and the following two papers:
   (a) Spanish language
   (b) Modern literature

In addition, students will attend selected essay tutorials during the year, and the work done for these will be taken into account.

3. One other approved subject.

SECOND YEAR: PART I EXAMINATION

1. Golden Age literature

FINAL EXAMINATION

1. Latin language, including unprepared translation
2. Latin literature: prescribed books I
3. Latin literature: prescribed books II (this paper may include texts from the post-classical period)
4. The Romans and Spain
5. Latin general paper
6. Translation into Spanish
7. Translation from Spanish and essay in Spanish
8. *One* of the following:

   (a) Spanish-American literature *or* (b) any other final-year course (Spanish) which it may be possible from time to time to offer, with the approval of the heads of both Departments

9. History of the Spanish language

In addition candidates will be required to present themselves for an oral examination in Spanish.

Latin and Theology

A scheme of study extending over three years and leading to the degree of Bachelor of Arts in Latin and Theology.

COURSE REQUIREMENT

For admission to the scheme passes in Latin and one other approved subject at advanced level are required, and a third pass in an approved subject is preferred.

FIRST-YEAR EXAMINATION

1. Latin: two papers as follows:
   (a) Language, including unprepared translation
   (b) Literature and prescribed texts
2. Theology: two papers as follows:
   (a) History and religion of Israel to the beginning of the Exile
   (b) New Testament Greek
3. One other approved subject.

FINAL EXAMINATION

1. Latin language, including unprepared translation
2. Latin literature: prescribed books I
3. Latin literature: prescribed books II (to include texts from the post-classical period)
4. *Two* of the following (1 paper):
   (a) Latin tragedy and comedy
   (b) Latin epic
   (c) Latin pastoral poetry
   (d) Latin satire
   (e) An approved period or topic of Roman history
   (f) An introduction to Graeco-Roman philosophy
   (g) An approved special subject.

   (Not all these subjects will necessarily be offered each year, and the list may be varied from time to time.)

5. Old Testament (with prescribed English text: in 1972 Job, Jeremiah 1-20; or Hebrew: in 1972 Deuteronomy 1-7, Isaiah 46-53)
6. New Testament (with prescribed Greek text: in 1972 St. Matthew)
7. *Either* Biblical and historical theology *or* Christian theology
8. Church history *or* Philosophy of religion *or* History of religion.

In addition, candidates will be required to submit not later than 1 May an essay of 8,000 to 10,000 words on a subject related to the scheme and approved by the heads of both Departments.

Mathematics

Two schemes of study leading to the degree of Bachelor of Arts in Mathematics, one extending over three years, the other extending over four years. The scheme to which a candidate is admitted will depend on the candidate's qualifications on entry.*

COURSE REQUIREMENT

For admission to the schemes candidates must produce evidence of ability in mathematics

Candidates will normally be expected to have taken mathematics, including both pure and applied mathematics, either as one subject (Mathematics) or as two subjects (Mathematics and Further Mathematics, Mathematics and Higher Mathematics, or Pure Mathematics and Applied Mathematics) at the advanced level in the General Certificate of Education examination. Candidates who offer Physics at advanced level instead of Applied Mathematics will be considered.

There are no special requirements restricting the choice of supporting subjects at advanced level. Nevertheless, some knowledge of physics, at least up to the ordinary level of the General Certificate of Education examination, is desirable.

SCHEME OF STUDY

The prescribed courses in mathematics for the four-year scheme of study are Mathematics 1MM, 2MM and 3MM taken in successive years, and followed by either Mathematics 4MMA or 4MMB. The prescribed courses in Mathematics for the three-year scheme of study are Mathematics 2MM and 3MM, taken in successive years, and followed by either Mathematics 4MMA or 4MMB.

In addition to the prescribed courses in mathematics candidates must reach a satisfactory standard in a one-year course of study in an approved ancillary subject.

Mathematics and Philosophy

A scheme of study extending over a period of three years and leading to the degree of Bachelor of Arts in Mathematics and Philosophy.

COURSE REQUIREMENT

For admission to the scheme passes in two subjects at advanced level are required, and a third is preferred.

One of these must normally be in mathematics, including both pure and applied mathematics, either as one subject or as two subjects. Candidates who offer physics at advanced level instead of applied mathematics will be considered.

SCHEME OF STUDY

The scheme of study for the first year will normally be the same as that of students in the first year of the three-year scheme of study leading to the degree of Bachelor of Arts in mathematics (see above), with the restriction that the required ancillary subject must be philosophy.

* For information regarding the scheme of study leading to the degree of Bachelor of Science in mathematics (one main subject), see prospectus *The Faculties of Science and Applied Science*, page G26.

During the second and third years candidates will be required to attend approved courses in mathematics and philosophy, submit written work as directed and pass such examinations as may be prescribed.

FINAL EXAMINATION

4 papers in mathematics including a paper in mathematical logic
4 examinations in philosophy. If one of these examinations is in the history of ancient and medieval philosophy, or the history of modern philosophy, candidates will be required to submit three essays by a certain date; for the history of modern philosophy examination, candidates will submit three essays by the end of the long vacation following the end of the second year; for the ancient and medieval philosophy examination, candidates will submit three essays by the end of the Easter vacation in the final year.

As an alternative to one paper in philosophy, candidates may, with the approval of the head of the Department of Philosophy, submit by a date laid down by the head of the Department an extended essay of not more than 8,000 words on a topic previously approved by the head of the Department.

In addition candidates may be required to present themselves for an oral examination.

Modern Languages and Literatures

Schemes of study extending over a period of three or four years (in either case an additional year may be spent abroad), leading to the degree of Bachelor of Arts in any two of the following subjects: French, German, Italian, Spanish and Russian. Candidates wishing to follow a scheme of study where Russian or Italian forms a principal part and who have no knowledge of Russian or Italian may be admitted to a four-year scheme.

COURSE REQUIREMENT

Passes in two approved subjects at advanced level are required, but passes in three are preferred. Candidates for a degree in which French, German, Italian (three-year scheme) or Spanish forms a principal part must have passed at advanced level in the appropriate languages; in the case of French, Italian and, normally, Spanish, candidates must have passed at ordinary level in Latin, and in the case of Russian candidates for the three-year scheme must possess an advanced level pass in Russian or its equivalent.

RESIDENCE ABROAD

Students taking French and Spanish or the three-year scheme in French and Italian will be required to spend the summer term of the second year attending courses at an approved university in one of the countries whose language is being studied, and the following year in the country where the other language is spoken. Whenever possible, arrangements will be made for the student to spend the year as an English-speaking *assistant* at an educational institution in the relevant country. Where such a post cannot be found, students will be required to follow an approved course of study of one academic year at a university in the country where they have not spent the previous summer term. The cost of residence abroad is not included in the normal fee for an arts scheme.

Students taking German and French will be required to attend courses in an approved university for an approved period of not less than one university term in one of the countries whose language is being studied and are further normally required to spend a substantial part of the long vacation in the other country. Arrangements can generally be made for students in the modern languages school of French-German to spend one year as an English-speaking *assistant* at an educational institution in either France or Germany, and such students will not be required to spend part of the summer vacation in either country.

Students taking the four-year scheme in French and Italian will be required to spend not less than one university term in one of the countries whose language is being studied and a substantial part of the following long vacation in the other country.

Students taking French/Latin (see page C64) will be required to spend a year in France between their second and final years. Whenever possible, arrangements will be made for these students to spend the year as English-speaking *assistants*. Where such a post cannot be found, students will be required to follow an approved course of study of one academic year at a French university.

Students taking the three-year scheme in French and Russian will normally be required to spend three months in the Soviet Union, or a comparable period in an Eastern European country, and one year in France. Students not spending a year in France will be required either to spend one university term following an approved course of study at an approved French university, or to spend a substantial part of a long vacation attending an approved vacation course at a French university. They will also normally be required to attend an approved vacation course in the Soviet Union or in an Eastern European country. The cost of residence abroad is not included in the normal fee for an arts scheme.

Students taking the four-year scheme in French and Russian will be required to spend not less than one university term in one of the countries whose language is being studied and at least one month of a vacation period in the other country. The cost of residence abroad is not included in the normal fee for an arts scheme.

Students taking either the three-year or the four-year scheme in German and Russian will be required to spend not less than one university term in one of the countries whose language is being studied and at least one month of a vacation period in the other country. The cost is not included in the normal fee for an arts scheme.

Students taking either the three-year or the four-year scheme in Italian and Russian will be required to spend not less than one university term in one of the countries whose language is being studied and at least one month of a vacation period in the other country. The cost is not included in the normal fee for an arts scheme.

Students taking the four-year scheme in Russian and Spanish will normally be required to spend not less than one university term in Spain and to attend an approved vacation course in the Soviet Union. Students taking the three-year scheme in Russian and Spanish will normally be required to spend a year in Spain and to attend an approved vacation course in the Soviet Union.

Candidates will also be required to study auxiliary subjects.

SCHEMES OF STUDY

French

First Year

1. Translation into French
2. Translation into English
3. Phonetics and Old French
4. History and structure of the French language
5. 17th-century French literature

Second Year

1. Translation into French
2. Translation into English
3. Medieval French literature
4. 18th-century French thought
5. 19th-century French novel

Students will also be required to follow courses in *Explication de textes* and stylistics.

While abroad, students in French/Latin and modern languages schemes involving French will be required to write a long essay in French on a topic approved by the head of the Department of French.

Third Year

1. Translation into French
2. Translation into English
3. 16th-century French literature
4. French poetry in the latter half of the 19th century
5. One of the following* special subjects, selected with the approval of the head of the Department:
   (a) Medieval literature
   (b) Renaissance satire
   (c) 17th-century literature
   (d) 17th-century comedy
   (e) 18th-century literature
   (f) 18th-century novel
   (g) 19th-century thinkers
   (h) 20th-century drama
   (i) 20th-century literature
   (j) 20th-century novel
   (k) 20th-century poetry
   (l) 20th-century thinkers
   (m) Provençal
   (n) A period in the history of French art
   (o) Phonetics
   (p) History of French science
   (q) *Explication de textes*

Italian or *Spanish*

The course of study and subjects of examination in Italian or Spanish will be: prescribed texts of various periods, studied from a literary and linguistic standpoint; literature; drama; history of the language; translation; civilisation.

German

For students taking German in the school of modern languages and literatures, there will be in the second and third years alternative schemes of study, scheme A and scheme B, related to the schemes of study in German taken as a single subject. In scheme A special attention will be paid to literature, in scheme B to philology and medieval literature.

English†

For students taking the single-subject scheme in modern languages and literatures there will be in the English portion of their course alternative schemes of study, scheme A, scheme B, and scheme C, related to the schemes of study for the degree in English. In scheme A special attention will be paid to literature. In scheme B the emphasis will be on philology and medieval literature. Scheme C is almost wholly devoted to literature from Chaucer to the present day.

Candidates will be required to attend:

During their first year, courses of not less than three hours a week in English language and medieval literature, and three hours a week in English literature and composition.

During their second and third years, courses of not less than five hours a week in English language and literature, the proportion to be determined by the candidate's choice of scheme and of subjects within the scheme.

* Not all the subjects in these lists will necessarily be available in any one year, and new subjects may be added from time to time.

† This course will be in abeyance until further notice.

Russian

In the case of candidates with no knowledge of Russian, the first year of work in the Department of Russian will be devoted to an intensive study of the language. These candidates will attend courses on Russian language and literature in their second, third and fourth years.

EXAMINATIONS

Conspicuous merit shown in any part or parts of the examination by candidates who are placed in the first or second class will be signalised on the class list by some special mark.

A qualifying examination must normally be passed by candidates at the end of the first year before they proceed to further study.

French

The qualifying examination in French at the end of the first year will consist of an oral examination and the following papers:

1. Translation into French, translation into English
2. Essay in French (1½ hours)
3. History and structure of the French language; Old French (2¼ hours)
4. Literature (1½ hours)
5. Phonetics (2 hours)

The final examination will consist of an oral examination and the following papers which, unless otherwise indicated, will be of three hours each:

1. Translation into French
2. Translation into English and essay in French
3. Medieval French literature (1½ hours)
4. Third-year special subject (1½ hours)
5. 18th-century French thought (1½ hours)
6. 19th-century French novel (1½ hours)
7. 16th-century French literature (1½ hours)
8. French poetry in the latter half of the 19th century (1½ hours)

German

The qualifying examination at the end of the first year will consist of an oral examination, a practical test in phonetics and the following four papers:

Composition and essay (1 paper)
Unprepared translation (1 paper)
Prescribed modern texts (1 paper)
Middle High German and phonetics (1 paper)

No candidate shall be regarded as having satisfied the examiners unless he reaches an adequate standard in German prose composition and essay.

The final examination at the end of the third year shall consist of an oral examination and the following papers:

SCHEME A

Literature and modern texts (2 papers)
Middle High German (1 paper)
Composition (1 paper)
Unprepared translation and essay in German (1 paper)

SCHEME B

Old High German and history of the German language (1 paper)
Middle High German (1 paper)
German texts since 1700 (1 paper)
Composition (1 paper)
Unprepared translation and essay in German (1 paper)

No candidate shall be regarded as having satisfied the examiners unless he reaches an adequate standard in German prose composition and essay.

Italian

The preliminary examination in Italian at the end of the first year of the four-year scheme shall consist of an oral examination and the following papers:
1. Translation, composition and essay (1 paper)
2. Literature and prescribed texts (1 paper)
3. Phonetics of Italian (½ paper)

The qualifying examination at the end of the first year of the three-year scheme or second year of the four-year scheme shall consist of an oral examination and the following papers:
1. Composition and unseen translation (1 paper)
2. Essay in Italian (1 paper)
3. Literature and prescribed texts (2 papers)

The final examination at the end of the third year of the three-year scheme or the fourth year of the four-year scheme shall consist of an oral examination and the following papers:
1. Composition and unseen translation (1 paper)
2. Essay in Italian (1 paper)
3. Literature, prescribed texts and civilisation (2 papers)
4. Special subject (1 paper) *or* History of the language (1 paper).

Russian

The preliminary examination at the end of the first year of the four-year scheme shall consist of an oral examination and the following papers:
Composition and grammar (1 paper)
Translation from Russian (1 paper)

The qualifying examination at the end of the second year of the four-year scheme (or the first year of the three-year scheme) will consist of an oral examination and the following papers:
1. Composition and translation (1 paper)
2. Russian literature with prescribed texts (1 paper).

The final examination will consist of an oral examination and the following papers:
1. Essay in Russian
2. Composition and translation
3. The Russian novel
4. Tolstoy and Dostoevsky
5. One of the following:
   (a) Alexander Pushkin
   (b) Chekhov and Turgenev
   (c) Gorky, Bunin and Andreev
   (d) Russian drama
   (e) Russian poetry
   (f) Soviet novel
   (g) The development of 19th century Russian radical thought
   (h) History of Russia from 1856
   (i) The Russian Church

A candidate's choice will be subject to the approval of the head of the Department.

Spanish

The qualifying examination at the end of the first year will consist of an oral examination and the following papers in Spanish:
1. Translation
2. Modern literature and prescribed texts
3. History of the language
4. Essay

The final examination at the end of the third or fourth year will consist of an oral examination and the following five papers:

1. Translation into Spanish
2. Translation from Spanish and essay in Spanish
3. Medieval literature
4. A special subject, either Renaissance or Modern (1 paper: one sessional course or two semester courses)
5. One paper selected from:*
   History of the Spanish language
   Translation from and into Portuguese
   Golden Age literature
   Hispanic American literature
   Period of Spanish civilisation
   Another special subject, either Renaissance or modern (one sessional course or two semester courses).

ENGLISH, SCHEMES A AND C

See the single-subject scheme in English, pages C31-35.

Candidates will take two papers at the end of their second academic year (the part 1 examination), and at the end of their third academic year (the part 2 examination) will take Shakespeare and Chaucer (scheme A) or Chaucer and Middle English texts (scheme C), and two other papers. If they are taking scheme A, they must in addition take the paper in either Old English or history of English.

ENGLISH, SCHEME B

The examination at the end of the third academic year will consist of:

Selected texts in Old English, with literary, historical and linguistic questions suggested by them, as for scheme B in English (1 paper)
Selected texts in Middle English, with literary, historical and linguistic questions suggested by them, as for scheme B in English (1 paper)
English philology, as for scheme B in English (1 paper)
Two selected periods, as for scheme A in English (1 paper).

One paper selected from the following:

Chaucer and the 15th century (1 paper)
Shakespeare and the Elizabethan drama (1 paper)
A paper on *either* Germanic philology with special reference to Old English, *or* any of the special subjects laid down for scheme B in English.
(Candidates taking French may not select Old French, and candidates taking German may not select Old High German, and candidates taking Russian may not select Russian and Old Bulgarian).

Music

A scheme of study extending over a period of three years and leading to the degree of Bachelor of Arts in Music.

COURSE REQUIREMENT

For admission to the scheme passes in two approved subjects at advanced level are required.
One of these passes is normally expected to be in music.
The *second* may be in any approved subject at advanced level.
In addition evidence of musical proficiency will be required.

* It may not be possible to offer all these optional papers in any one year. Others may be substituted or their number changed.

SCHEME OF STUDY

The courses for the first year shall normally include music and one approved subject in the arts or sciences.

At the end of the first year a qualifying examination in these two subjects will be held which must normally be passed by candidates before they proceed to further study.
At the end of the second year candidates will take four examination papers on stylistic studies, composition, history of music and the special subject. The results of the papers on history of music and on the special subject will count towards the final examination.

In addition to musical studies each candidate in the second year must pursue for a further year a prescribed course in the subject approved for the first year and pass an examination. Candidates are expected to be proficient on at least one instrument and may be required by the head of the Department to take instrumental tuition during one or more years of the course. Such tuition will be taken outside the university on the advice of the head of the Department of Music.

Music and Religious Studies

A scheme of study extending over a period of three years and leading to the degree of Bachelor of Arts in Music and Religious Studies.

COURSE REQUIREMENT

For admission to the scheme passes in two approved subjects at advanced level are required and a third is preferred.
One of these passes should preferably be in music.

FIRST-YEAR EXAMINATION

1. Music (2 papers):
   (a) History of music 700 to 1720
   (b) Harmony and counterpoint
   Practical training
2. Religious studies: two papers in philosophy and history of religion
3. One other approved subject

FINAL EXAMINATION

1. History of music since 1880
2 and 3. Stylistic studies
4. Special subject (music)
5. Acoustics*

and any four of the following:

6. History of religion II
7. History of religion III
8. Philosophy of religion
9. Ethics
10. Church history
11. Christian theology.

Candidates will also be required to take practical and oral examinations in music.

In addition, candidates will be required to submit not later than 1 May an essay of about 8,000 words on a subject which may relate to religious studies or to music or to some topic combining these subjects. The title should be submitted to the heads of both Departments for approval at the beginning of the third year of the scheme.

* This course is given in alternate years. Candidates will take the examination at the end of the year in which they attend the course.

Music and Theology

A scheme of study extending over a period of three years and leading to the degree of Bachelor of Arts in Music and Theology.

COURSE REQUIREMENT

For admission to the scheme passes in two approved subjects at advanced level are required and a third is preferred.
One of these passes should preferably be in music.

FIRST-YEAR EXAMINATION

1. Music (2 papers):
   (a) History of music from 700 to 1720
   (b) Harmony and counterpoint
   Practical training
2. Theology: two papers as follows:
   (a) New Testament Greek
   (b) History and religion of Israel to the beginning of the Exile, with an introduction to the relevant literature of the Old Testament.
3. One other approved subject.

FINAL EXAMINATION

1. History of music since 1880
2 and 3. Stylistic studies
4. Special subject (music)
5. Acoustics*
6. Old Testament (with English text: in 1972 Job, Jeremiah 1-20; *or* Hebrew: in 1972 Deuteronomy 1-7, Isaiah 46-53)
7. New Testament (with prescribed text in Greek: 1972 St. Matthew)
8. Biblical and historical theology *or* Christian theology
9. *Either* Philosophy of religion *or* History of religion *or* Church history.

Candidates will also be required to take practical and oral examinations in music.

In addition candidates will be required to submit not later than 1 May an essay of about 8,000 words on a subject which may relate to theology or to music or to some topic combining these subjects. The title should be submitted to the heads of both Departments for approval at the beginning of the third year of the scheme.

Philosophy

A scheme of study extending over a period of three years and leading to the degree of Bachelor of Arts in Philosophy.

COURSE REQUIREMENT

For admission to the scheme passes in two approved subjects at advanced level are normally required and a third is preferred.

SCHEME OF STUDY

The scheme of study for the first year will consist of philosophy together with two other approved subjects.

A qualifying examination (two papers), which must normally be passed by candidates before they proceed to further study, will be held at the end of the first year.

*This course is given in alternate years. Candidates will take the examination at the end of the year in which they attend the course.

The first-year course in philosophy will consist of:
1. Introduction to philosophy I
2. Introduction to philosophy II
3. Reason and argument

Regular attendance at tutorials will be required.
Candidates who have during their first year pursued any scheme of study in which philosophy is one of the subjects may be considered for transfer to philosophy taken as a single subject at the end of the first year.

FINAL EXAMINATION

1. Philosophical problems
2. Ethics
3. Political and social philosophy
4. History of ancient and medieval philosophy; candidates will be required to submit three essays by the end of the Easter vacation in the final year.
5. History of modern philosophy; candidates will be required to submit three essays by the end of the long vacation following the end of the second year.
6. Logic
7. Any one of the 'bridge' subjects available to candidates in two-subject schemes
8. Special subject, to be chosen with the approval of the head of the Department.

Candidates will be required to submit, by a date laid down by the head of the Department, an essay of not more than 8,000 words on a philosophical topic previously approved by the head of the Department.

In addition candidates may be required to present themselves for an oral examination.

Philosophy and the History of Scientific Thought

A scheme of study extending over a period of three years and leading to the degree of Bachelor of Arts in Philosophy and the History of Scientific Thought.

COURSE REQUIREMENT

For admission to the scheme passes in two approved subjects at advanced level are normally required, and a third is preferred. A pass at ordinary level in some science would be an advantage.

FIRST-YEAR EXAMINATION

1. Philosophy: two papers as follows:
   (a) Introduction to philosophy
   (b) Reason and argument
2. The history and philosophy of science: two papers as follows:
   (a) Development of European science
   (b) Philosophy of science I
3. One other approved subject.

FINAL EXAMINATION

1. Philosophical problems
2. Ethics *or* Political and social philosophy
3. History of ancient and medieval philosophy, *or* history of modern philosophy. (Candidates will be required to submit three essays; for the history of ancient and medieval philosophy examination, candidates will submit three essays by the end of the Easter vacation in the final year; in the case of the history of modern philosophy examination, candidates will submit three essays by the end of the long vacation following the end of the second year.)

4. Topics in the philosophy of science
5. The history of ideas with special reference to the development of natural philosophy *or* the development of modern mathematical philosophy.
6. History of a special science, with set book
7 and 8. Two papers in selected periods or themes in the history of scientific thought
9. A special subject to be chosen with the approval of the head of the Department *or* Philosophy of history *or* an essay of not more than 8,000 words on a topic previously approved by the head of the Department, to be submitted by a date laid down by the head of the Department.

Candidates may also be required to present themselves for an oral examination.

Philosophy and Politics

A scheme of study extending over a period of three years and leading to the degree of Bachelor of Arts in Philosophy and Politics.

COURSE REQUIREMENT

For admission to the scheme passes in two subjects at advanced level are required.
One of these passes must be in history.

FIRST-YEAR EXAMINATION

1. Philosophy: two papers as follows:
   (a) Introduction to philosophy
   (b) Reason and argument
2. Politics: three papers as follows:
   (a) Politics (the political structure of Great Britain)
   (b) British constitutional and political history from 1660
   (c) Introduction to political science
3. *Either* Sociology (3 papers) *or* Psychology (3 papers).

FINAL EXAMINATION

1. Political and social philosophy
2. Modern political doctrines
3. Politics (2 papers)
4. The government of a special area or areas
5. Ethics
6. Philosophical problems
7. The history of *either* ancient and medieval *or* modern philosophy
8. A special subject to be chosen with the approval of the heads of the Departments of Philosophy* and Social Studies.

In addition candidates may be required to present themselves for an oral examination.

Philosophy and Psychology

A scheme of study extending over a period of three years and leading to the degree of Bachelor of Arts in Philosophy and Psychology.

COURSE REQUIREMENT

For admission to the course, passes in two subjects at advanced level are required and a third is preferred. Candidates must have a pass in mathematics at ordinary or advanced level and a pass in history at ordinary or advanced level would be an advantage.

* If the special subject is in philosophy candidates may, with the approval of the head of the Department of Philosophy, submit an extended essay of not more than 8,000 words as an alternative to sitting a three-hour paper.

FIRST-YEAR EXAMINATION

1. Philosophy:
   (a) Introduction to philosophy
   (b) Reason and argument
2. Psychology:
   (a) General and experimental psychology, individual differences
   (b) Biological psychology; methodology.
3. Sociology:
   (a) Social institutions and sociological concepts
   (b) The social structure of modern Britain
   (c) Quantitative methods in the social sciences.

FINAL EXAMINATION

1. Philosophical problems
2. The history of *either* ancient and medieval *or* modern philosophy
3. Ethics
4. Philosophy of mind
5. The history and methodology of psychology
6. Perception and learning
7. Cognitive psychology, language and thinking
8. Social psychology and personality
9. *Either* A special subject to be chosen with the approval of the heads of the Departments of Philosophy and Psychology

Or An essay of not more than 8,000 words to be submitted not later than 1 May on a subject which may relate to philosophy or psychology or some topic combining these subjects. The title should be submitted to the heads of the Departments for approval at the end of the second year.

In addition, candidates may be required to present themselves for an oral examination. Laboratory work in psychology is an integral part of the course and laboratory notebooks will be assessed as part of the final examination.

Philosophy and Religious Studies*

A scheme of study extending over a period of three years and leading to the degree of Bachelor of Arts in Philosophy and Religious Studies.

COURSE REQUIREMENT

For admission to the scheme passes in two approved subjects at advanced level are required, and a third is preferred.

FIRST-YEAR EXAMINATION

1. Philosophy: two papers as follows:
   (a) Introduction to philosophy
   (b) Reason and argument
2. Religious studies: two papers in Philosophy and history of religion
3. One other approved subject.

FINAL EXAMINATION

1. Philosophical problems
2. The history of *either* ancient and medieval *or* modern philosophy
3. Political and social philosophy†
4. Ethics†

* Available from October 1972.

† In exceptional circumstances and with the approval of the head of the Department, a further examination in the history of philosophy or in a bridge subject may be taken instead of the examination in ethics or political and social philosophy.

5. Asian religion and culture to 1600
6. Philosophy of religion
7. Religion and society
8. Comparative study of religious texts
9. *Either* A special subject in philosophy or religious studies *or* an extended essay of not more than 8,000 words on a topic in philosophy or religious studies or common to both, to be chosen with the approval of the departments concerned and submitted not later than 1 May in the candidate's final year of study.

Philosophy and Russian

Two schemes of study leading to the degree of Bachelor of Arts in Philosophy and Russian, one extending over three years and the other extending over four years.

COURSE REQUIREMENT

For admission to the scheme passes in two approved subjects at advanced level are required and a third is preferred. For admission to the three-year scheme one of these passes must be in Russian. Candidates with little or no previous knowledge of Russian may be accepted for the four-year scheme. Students may also be accepted on transfer from the first year of the four-year scheme in Russian Studies.

SCHEME OF STUDY

Candidates will normally be required to spend a period of three months in the U.S.S.R. or a comparable period in an Eastern European country, at an appropriate point in the scheme. The cost of residence abroad is not included in the normal fee for an arts scheme.

FIRST-YEAR EXAMINATION (three-year scheme)

1. Philosophy: two papers as follows:
   (a) Introduction to philosophy
   (b) Reason and argument
2. Russian: two papers as follows:
   (a) Russian translation and composition
   (b) Russian literature and prescribed texts *or* Russian history to 1856
3. One other approved subject.

FINAL EXAMINATION

The final examination will consist of an oral examination in Russian and the following papers (3 hours each):

1. Philosophical problems
2. *Either* Ethics *or* Political and social philosophy
3. History of modern philosophy (candidates will be required to submit three essays by the end of the long vacation following the end of the second year)
4. The development of 19th-century Russian radical thought
5. Russian composition and translation
6. Russian essay
7. Russian history 1856 to 1914
8. Tolstoy and Dostoevsky
9. Russian history from 1914 *or* The Soviet novel *or* the Russian Church *or* the Russian novel
10. *In addition*, candidates will present, by 1 April of their final year, an extended essay of about 8,000 words on a subject from the field of Russian or philosophy or involving both fields. The subjects for the extended essay will be set with the agreement of both heads of

Departments. Tuition for the extended essay will be given as required in the second and third years of the course. As an alternative to the writing of the extended essay, any candidate may, with the approval of the head of the department concerned, elect to be examined by means of a special three-hour paper.

Candidates may also be required to present themselves for an oral examination in philosophy.

Philosophy and Sociology

A scheme of study extending over a period of three years and leading to the degree of Bachelor of Arts in Philosophy and Sociology.

COURSE REQUIREMENT

For admission to the course, passes in two subjects at advanced level are required and a third is preferred. These passes may be in any approved subject.

A pass at ordinary level in mathematics is normally required.

FIRST-YEAR EXAMINATION

1. Philosophy: two papers as follows:
   (a) Introduction to philosophy
   (b) Reason and argument
2. Sociology: three papers as follows:
   (a) Social institutions and sociological concepts
   (b) The sociology of modern Britain
   (c) Quantitative methods in the social sciences*
3. *Either* Politics (3 papers) *or* Psychology (3 papers)

FINAL EXAMINATION

Sociology 1: Central issues, theories and concepts
Sociology 2: Structures and processes
The institutions of advanced societies (1 paper)
Ethics
Philosophical problems
History of ancient and medieval philosophy *or* History of modern philosophy
Political and social theory *or* Political and social philosophy
Two further papers to be chosen, with the approval of the heads of the Departments of Philosophy and Social Studies, from the subjects which may be offered as options† for the degrees in philosophy or in sociology.
In addition candidates may be required to present themselves for an oral examination.

Philosophy and Theology

A scheme of study extending over a period of three years and leading to the degree of Bachelor of Arts in Philosophy and Theology.

COURSE REQUIREMENT

For admission to the scheme passes in two approved subjects at advanced level are required, and a third is preferred. No knowledge of Greek is required.

* With the approval of the head of the Department of Social Studies, candidates may substitute an approved course in pure mathematics for this paper.

† In the case of options in philosophy candidates may, with the approval of the head of the Department of Philosophy, submit an extended essay of not more than 8,000 words in lieu of *one* paper.

FIRST-YEAR EXAMINATION

1. Philosophy: two papers as follows:
   (a) Introduction to philosophy
   (b) Reason and argument
2. Theology: two papers as follows:
   (a) New Testament Greek I
   (b) History and religion of Israel to the beginning of the Exile, with an introduction to the relevant literature of the Old Testament.
3. One other approved subject.

FINAL EXAMINATION

1. Philosophical problems
2. History of ancient and medieval philosophy (candidates will be required to submit three essays by the end of the Easter vacation in the final year).
3. Ethics
4. Philosophy of theology
5. Philosophy of religion
6. Biblical and historical theology
7. Old Testament (with prescribed English text: in 1972 Job, Jeremiah 1-20; *or* Hebrew: in 1972 Deuteronomy 1-7, Isaiah 46-53)
8. New Testament (with prescribed text in Greek: in 1972 St. Matthew)
9. An essay of not more than 10,000 words on a subject which may relate to theology or philosophy or to some topic linking these subjects. The title should be submitted to the heads of the two Departments for approval at the end of the second year, and the essay must be submitted by a date laid down by the heads of the Departments. Candidates may with the approval of the heads of the Departments of Philosophy and Theology elect to be examined by means of a special three-hour paper instead of the extended essay. Candidates may be required to present themselves for an oral examination.

Portuguese and Spanish

A scheme of study extending over a period of three years (with an additional year spent abroad) and leading to the degree of Bachelor of Arts in Portuguese and Spanish.

COURSE REQUIREMENT

For admission to the scheme a pass in Spanish at the advanced level in a General Certificate of Education or equivalent examination is required, and passes in two other subjects at advanced level are normally required.

SCHEME OF STUDY

Candidates will normally be required to spend one year in a Portuguese-speaking country or in a Spanish-speaking country between the second and third year of this scheme; and to spend the third term of the second year and/or a period of at least one month in a long vacation in the country of the other language; such stays to include attendance at courses, prescribed or approved, at universities or similar institutions. The cost of residence abroad is not included in the normal fee for an arts scheme.

FIRST-YEAR EXAMINATION

1. Portuguese: an oral examination and two papers as follows:
   (a) Portuguese language
   (b) Prescribed books

In addition, students will attend essay tutorials on the literature studied, and the work done for these will be taken into account.

2. Spanish: an oral examination in Spanish and two papers as follows:
   (a) Spanish language
   (b) Modern literature

In addition, students will attend selected essay tutorials during the year, and the work done for these will be taken into account.

3. One other approved subject.

SECOND YEAR: PART I EXAMINATION

1. O Quinhentismo
2. Spanish Golden Age literature

FINAL EXAMINATION

1. The 19th-century Portuguese novel
2. Brazilian literature
3. Translation into Portuguese
4. Translation from Portuguese into English and essay in Portuguese
5. Spanish special subjects (one sessional or two semester courses)
6. *One* of the following options:
   (a) Spanish-American literature
   or
   (b) Another approved course
7. Translation into Spanish
8. Translation from Spanish into English and essay in Spanish.

In addition, candidates will be required to present by 1 December in their final year an essay of some 8,000 words on an approved topic within the fields of Portuguese or Spanish, or combining both subjects; and will be required to present themselves for oral examinations in both languages.

Religious Studies and Sociology

A scheme of study extending over a period of three years and leading to the degree of Bachelor of Arts in Religious Studies and Sociology.

COURSE REQUIREMENT

For admission to the scheme passes in at least two approved subjects at advanced level are required and a third is preferred. These passes may be in any approved subject.

A pass at ordinary level in mathematics is normally required.

FIRST-YEAR EXAMINATION

1. Philosophy and history of religion (2 papers)
2. Sociology: three papers as follows:
   (a) Social institutions and sociological concepts
   (b) The sociology of modern Britain
   (c) Quantitative methods in the social sciences*
3. Politics (3 papers)

* With the approval of the head of the Department of Social Studies, candidates may substitute an approved course in pure mathematics for this paper.

FINAL EXAMINATION

Sociology 1: Central issues, theories and concepts
Sociology 2: Structures and processes
The institutions of advanced societies (1 paper)
Philosophy of religion
Islam *or* Hinduism and Buddhism
Modern church history
The sociology of religion
together with two other papers chosen with the consent of the heads of the two Departments from courses provided in the Department of Theology or the Department of Social Studies.

Russian

Two schemes of study leading to the degree of Bachelor of Arts in Russian, one extending over three years and the other extending over four years.

COURSE REQUIREMENT

For admission to either scheme of study passes in two approved subjects at advanced level, or equivalent, are required.
In the case of the three-year scheme:
One of these passes must be in Russian.
The *second* may be in any approved subject at advanced level.
In the case of the four-year scheme no qualification in Russian is required and the *two* passes may be in any approved subject at advanced level.

SCHEME OF STUDY

First Year (four-year scheme)
1. Russian language
2. Introduction to Russian history and literature
3. Phonetics of Russian.

Candidates will normally be required to pass an examination in section 1 before proceeding to further study.

The course of study for the second year of the four-year scheme, or first year of the three-year scheme, shall normally consist of:
1. Russian language
2. Russian literature with prescribed texts
3. Russian history
4. One approved subject other than Russian.

Before proceeding to further study all candidates will normally be required to have passed a qualifying examination in sections 1, 2, 3 and 4.
During the final two years the course will consist of:
1. Russian language
2. 19th and 20th-century Russian literature with prescribed texts
3. History of Russia 1856 to 1914
4. Two special subjects to be chosen from the following with the approval of the head of the Department:
   (a) Soviet foreign policy from 1917
   (b) The development of 19th-century Russian radical thought
   (c) Russian history from 1914
   (d) Soviet geography
   (e) A non-Russian Slavonic author
   (f) The Russian Church.

In addition, candidates will complete the course in the other approved subject begun in the preceding year, thus completing a three-year course in all, and present themselves for the necessary examination.

Students will normally be required at an appropriate point in their scheme to spend a period of at least three months in the Soviet Union, or a comparable period in an Eastern European country. The cost is not included in the normal fee for an arts scheme.

Candidates may be required to attend courses of lectures given in other departments which may be helpful to their studies in the subjects of the school.

EXAMINATIONS

The preliminary examination in Russian at the end of the first year of the four-year scheme shall consist of an oral examination and the following papers:

Composition and grammar (1 paper)

Translation from Russian (1 paper)

The qualifying examination in Russian at the end of the second year of the four-year scheme (or first year of the three-year scheme) shall consist of an oral examination and the following papers:

Composition and translation (1 paper)

Russian history (1 paper)

Russian literature with prescribed texts (1 paper)

The final examination will consist of an oral examination and the following papers:

1. Composition (1 paper)
2. Unprepared translation (1 paper)
3. Essay in Russian (1 paper)
4. History of Russia 1856 to 1914 (1 paper)
5. to 7. Literature:
   (a) Tolstoy and Dostoevsky (1 paper)
   (b) The Russian novel (1 paper)
   (c) *One* paper on one of the following:
      1. Alexander Pushkin
      2. Chekhov and Turgenev
      3. Gorky, Bunin and Andreev
      4. Russian drama
      5. Russian poetry
      6. Soviet novel*

   A candidate's choice will be subject to the approval of the head of the Department.

8 and 9. One paper each on two of the following:

   (a) Soviet foreign policy from 1917
   (b) The development of 19th-century Russian radical thought
   (c) Russian history from 1914
   (d) Soviet geography
   (e) A non-Russian Slavonic author
   (f) The Russian Church.

A candidate may, with the approval of the head of the Department, offer a dissertation instead of one of the special subject papers.

* A two-hour paper together with an essay written in the candidate's own time and presented by 1 June.

Semitic Languages and Literatures

Two schemes of study leading to the degree of Bachelor of Arts in Semitic Languages and Literatures, one extending over three years and the other extending over four years. In addition, there is in both schemes a choice of Scheme A or Scheme B.

COURSE REQUIREMENT

For admission to either scheme, and both alternative schemes of study, passes in two approved subjects at advanced level are required. These passes may be in any approved subject. Candidates without sufficient proficiency in Hebrew and Arabic (or Aramaic-Syriac) will be required to take the four-year scheme, while those with sufficient qualifications in these languages will be allowed to take the three-year scheme. In exceptional cases where a candidate possesses an outstanding knowledge of either Hebrew or Arabic (or Aramaic-Syriac) only, he may, by special permission of the head of the Department, be allowed into the three-year scheme.

FOUR-YEAR SCHEME

Candidates taking the four-year scheme will, during their first year, be required to study elementary Hebrew and Arabic (or Aramaic-Syriac). In addition, they will be required to take one other approved subject outside the Department of Semitic Studies.

A preliminary examination in all the subjects taken by candidates following the four-year scheme in their first year must normally be passed at the end of this year before candidates can proceed to further study.

THREE-YEAR SCHEME

This will be identical, except for modifications indicated below, with years two to four of the four-year scheme.

SCHEMES A AND B

Beginning with the second year of the four-year scheme (the first of the three-year scheme), Hebrew and *either* Arabic *or* Aramaic-Syriac are studied concurrently, Arabic or Aramaic-Syriac being the main supporting language. The scheme of study of the first academic year of the three-year scheme (the second of the four-year scheme) shall include the following subjects:

1. Hebrew language and literature
2. *Either* Arabic language and literature *or* Eastern and Western Aramaic
3. *Either*, in the case of the three-year scheme, two other approved subjects, which would normally be subjects taken outside the Department of Semitic Studies, *or*, in the case of the four-year scheme, one other approved subject normally taken outside the Department of Semitic Studies in addition to the one taken in the first year.

A qualifying examination in all the subjects taken must normally be passed at the end of this year of study by candidates before they proceed to further study. In addition, candidates may be required in any year to attend a course in any department which may be helpful to their studies in Semitic languages and literatures.

During the second and third year of the three-year scheme (the third and fourth years in the case of the four-year scheme) candidates will pursue the following course of study:

1. Hebrew language and literature, including biblical history and archaeology; critical introduction to the literature of the Old Testament; the growth of religious ideas and institutions in the Bible; the intertestamental period and New Testament background, studied in connection with post-biblical and rabbinic texts; mishnaic and medieval Hebrew; modern Hebrew language and literature
2. Further study of *either* Arabic *or* Aramaic (including Syriac)

3. A special subject (studied in the third year of the three-year scheme and in the fourth year of the four-year scheme) normally selected, with the approval of the head of the Department, from the following list:
   (a) Advanced Syriac
   (b) Advanced medieval Hebrew
   (c) Advanced Arabic
   (d) Old Testament Greek and papyri
   (e) Palestinian archaeology
   (f) Advanced comparative Semitic philology and epigraphy.

In addition to the above subjects, candidates will be required, during the second and third years of the three-year scheme (third and fourth of the four-year scheme), to pursue a prescribed course and to pass the necessary examinations in the following:

SCHEME A

One of the two outside subjects studied in the first year of the three-year scheme (or in the first and second years of the four-year scheme).

SCHEME B

Either Aramaic-Syriac (3 papers) in the case of candidates who have chosen Arabic under 2 above *or* Arabic (3 papers) in the case of candidates who have chosen Aramaic (including Syriac) under 2 above.

Candidates will normally be required to spend part of the summer vacation after the first year of the three-year scheme (second year of the four-year scheme) at a recognised centre of Hebrew (and, in the case of candidates who take Arabic as their second main language, Arabic) studies in the Near East, as approved by the head of the department. (Arrangements can be made for candidates, who so wish, to spend a whole session at the Hebrew University, Jerusalem, or at another approved centre of study in the Near East.) The cost of residence abroad is not included in the normal fee for an arts scheme.

FINAL EXAMINATION

The following papers shall be obligatory for students following both scheme A and scheme B:
Specified and unspecified texts of biblical Hebrew, with reference to critical introduction, etc. (1 paper)
Specified and unspecified texts of post-biblical (including mishnaic and medieval) Hebrew (1 paper)
Specified and unspecified modern Hebrew texts (1 paper)
General Hebrew literature questions, prose texts and composition (1 paper)
Comparative grammar of the Semitic languages, and questions on the special subject studied in the third year, as in 3(a) to (f) above (1 paper)
Either specified or unspecified texts of Aramaic, including Syriac (3 papers) *or* specified and unspecified texts of Arabic (3 papers)

Spanish

A scheme of study extending over a period of three years (with additional year spent abroad) and leading to the degree of Bachelor of Arts in Spanish Language and Literature.

COURSE REQUIREMENT

For admission to the scheme passes in three approved subjects at advanced level are required, although exceptionally candidates with two passes will be considered.
One of these passes must be in Spanish.
In addition a pass in Latin at ordinary level or its equivalent is normally required.

SCHEME OF STUDY

FIRST YEAR

1. Spanish language and literature
2. A period of Spanish civilisation
3 and 4. Two other approved subjects.

A qualifying examination in these subjects which must normally be passed by candidates before they proceed to further study will be held at the end of the first year. In addition, work done for essay tutorials during the year will be taken into account.

During the second and third years candidates shall be required to attend courses in the subjects of the school for not less than eight hours a week.

The third term of the second year will normally be spent at a university abroad, the choice of university to be subject to the approval of the head of the Department, in consultation with the head of the department in which the subsidiary subject is taken. Students who do not spend the third term of their second year at such a university will be required, before their final year, to spend at least one month at an approved vacation course in the country where the subsidiary language is spoken. Students who have spent the third term of the second year in the country where the subsidiary language is spoken will normally spend the following year in a Spanish-speaking country before returning to Leeds for their final year. The cost of residence abroad is not included in the normal fee for an arts scheme. During this year abroad all students write a long essay (8,000 words) or dissertation (15,000 words) on a topic of literature, language or civilisation.

Candidates may be required in any year to attend courses of lectures given in other departments which may be helpful to their studies in the subjects of the school.

In addition to the subjects of the school each candidate will be required to pursue a prescribed course and present himself for the necessary examination in one other subject included in the Faculty of Arts and approved by the head of the Department of Spanish and Portuguese for a period extending over three years. An examination in this subsidiary subject will be held in March of the second year of study. The results obtained will be taken into account in considering the results of the final examination in the subsidiary subject, which is an integral part of the final degree examination.

EXAMINATIONS

The qualifying examination at the end of the first year will consist of an oral examination and of the following four papers in Spanish:

Translation
History of the language
Modern literature and civilisation
Essay

In addition, students will attend selected essay tutorials during the year, and the work done for these will be taken into account.

The degree examination will consist of nine papers (all of 3 hours) and an oral examination, to be taken as follows:

In March of the second year:

1. Golden Age literature
2. Hispanic American literature

At the end of the final year:

3. Translation into Spanish
4. Translation from Spanish
5. Essay
6. Medieval literature

7. One paper selected from:
   History of the Spanish language
   Spanish civilisation
   Translation from and into Portuguese
   Hispanic American novel

8 and 9. Two special subjects, normally one in the Renaissance and one in a modern period, each taken as either a sessional course or two half-sessional courses. One of these papers may be replaced by the dissertation or one half paper by the long essay. Closing dates for the dissertation will be 1 December and for the long essay 1 November.

10. An oral examination.

SPANISH AS A SUBSIDIARY SUBJECT

An examination in Spanish as a subsidiary subject for the degree of Bachelor of Arts will be held in March of the second year of study. The results obtained will be taken into account in considering the results of the final examination in the subsidiary subject, which is an integral part of the final degree examination.

Textile Design

A scheme of study extending over a period of three years and leading to the degree of Bachelor of Arts in Textile Design.

COURSE REQUIREMENT

For admission to the scheme passes in two approved subjects at advanced level are required. These passes may be in any approved subject.

In addition a pass in art at advanced or ordinary level is desirable but not essential.

SCHEME OF STUDY

First Year
Fine art 1
Textiles 1A
Textile design 1

One of the following:
   General economics
   Management studies A1
   An approved modern language
   Any other approved subject

Second Year
Fine art 2
Textiles 2A(D)
Textile design 2

One of the following by arrangement with the head of the department concerned:
English economic history 1066 to 1914
Management studies A2
An approved modern language
Any other approved subject

Third Year
Textiles 3A(D)
Textile design 3

Candidates shall also be required to submit a thesis based on original work in textile design, or a portfolio of original textile designs.

EXAMINATIONS

A qualifying examination in the subjects in which courses have been prescribed in the first year will be held at the end of the first year and must normally be passed by candidates before they proceed to further study.

At the end of the second year candidates will be examined in:
Fine art
Optional subject
Textile technology

An assessment will be made of work completed in Textile design 2.

Candidates must normally obtain a satisfactory standard in these examinations before they proceed to further study.

At the end of the third year candidates will take the final examinations as follows:
Textile chemistry, dyeing and cloth finishing (1 paper)
Methods of fabric manufacture (1 paper)
Fabric structure and printed textiles (1 paper)
An oral examination.

Marks will be awarded for practical work carried out in Textile design 3 and for the thesis or portfolio of work.

The candidate's performance in the subjects taken outside the Department of Textile Industries will be taken into account.

Candidates are required to attain a satisfactory standard in yarn manufacture and textile testing in either the penultimate or final year.

Textile Management

A scheme of study extending over a period of three years and leading to the degree of Bachelor of Arts in Textile Management.

COURSE REQUIREMENT

For admission to the scheme passes in two approved subjects at advanced level are required. These passes may be in any approved subject.

SCHEME OF STUDY

First Year

Management studies C1
Textiles 1A
Textiles 1A(M)
An approved modern foreign language or other approved course, e.g. economics.

Second Year

Management studies C2
Textiles 2A(M)
An approved modern foreign language or other approved course.

Third Year

Management studies C3
Textiles 3A(M)

Candidates shall also be required to submit a thesis based on original work in management studies.

EXAMINATIONS

A qualifying examination in the subject in which courses have been prescribed for the first year will be held at the end of the first year and must normally be passed by candidates before they proceed to further study.

At the end of the second year candidates will be examined in:
Management studies C2
Optional subject
Textile technology

Candidates must normally obtain a satisfactory standard in these examinations before they proceed to further study.

At the end of the third year candidates will take the final examination as follows:
Textile chemistry, dyeing and cloth finishing (1 paper)
Yarn manufacture and textile testing (1 paper)
Fabric manufacture and mill management (1 paper)
Fabric structure (1 paper)
Management studies C3*
Thesis in Management studies
Oral examination

The candidate's performance in the subjects taken outside the Departments of Textile Industries and Management Studies will be taken into account.

Theology

A scheme of study extending over a period of three years and leading to the degree of Bachelor of Arts in Theology.

COURSE REQUIREMENT

For admission to the scheme passes in two approved subjects at advanced level are required. These passes may be in any approved subject. A knowledge of Greek and Hebrew is not required for admission to the scheme.

SCHEME OF STUDY

First Year
New Testament Greek or Greek 1
Philosophy and history of religion 1
Church history 1
Old Testament 1 (Hebrew), *or* Hebrew 1, *or* a one-year course in some other subject approved by the head of the Department.

Second Year
Old Testament 2, option (i) or (ii)
New Testament language and literature 1
Church history 2
Biblical and historical theology
Either Philosophy of religion 2 *or* History of religion 2

Third Year
Old Testament 3, option (i) or (ii)
New Testament language and literature 2
History of biblical interpretation
Biblical and historical theology
Either Philosophy of religion 3 *or* History of religion 3.

* Students taking their final examination in June 1972 will write the paper in Management studies III.

EXAMINATION

FIRST YEAR

New Testament Greek or Greek 1
Philosophy and history of religion 1
Church history 1
Old Testament 1 (Hebrew), *or* Hebrew 1, *or* a one-year course in some other subject approved by the head of the Department.

The final examination, at the end of the third year, will consist of nine papers:
1. Old Testament
2. Old Testament prescribed texts in Hebrew or English
3. New Testament literature
4. New Testament prescribed texts in Greek (in 1972 St. Luke and Hebrews)
5. Church history
6 and 7. Biblical and historical theology (2 papers)
8 and 9. Philosophy and history of religion:
Either Philosophy of religion (2 papers) *or* History of religion (2 papers)

In addition students will attend a course of essay seminars on the history of biblical interpretation and the work done for these will be taken into account in the final examination.

Regulations prescribing schemes of study and particulars of courses of lectures for the degree of Bachelor of Arts in economics, economics and politics, economics and sociology, economics and textile industries, economic history and geography, economics and geography, geography, geography and politics, geography and sociology, political studies, psychology and sociology, and sociology will be found in the prospectus *Faculty of Economic and Social Studies*.

Prescribed Schemes of Examination for the Degree of Master of Arts

American Literature, *see page* C125-6
Anglo-Irish Literature, *see page* C126
Bibliography and Textual Criticism, *see page* C128
Celtic Studies, *see page* C127
Dialectology, *see page* C128
Drama and Theatre Arts, *see page* C129

Agricultural Economics

The scheme of advanced study leading to the degree of Master of Arts by examination in Agricultural Economics will extend over one academic year, starting in October.

Candidates will normally be graduates in economics or agricultural economics. Candidates admitted to the scheme will take courses of lectures leading to an examination in each course as indicated (at the discretion of the examiners, an oral examination may be included).

Methodology of agricultural economics (1 paper)
and *either* Advanced agricultural economics (3 papers)
or Advanced agricultural economics (1 paper)
and one of the following (2 papers):
Agricultural development
Agricultural production economics
Agricultural marketing

Applied Social Studies*

The scheme of advanced study leading to the degree of Master of Arts in Applied Social Studies will extend over one calendar year, starting in October.

Candidates will normally have had at least five years' experience in the field of social work and be *either* (i) graduates in a relevant subject *or* (ii) graduates in any subject who had had professional training.

Candidates will be examined in three of the following subjects†:

1. Professional and personal relationships
2. Organisation theory
3. Adult education and professional training
4. Social policy
5. Social pathology

Not all these courses will be available each year.

In addition, each candidate will be required to prepare a dissertation related to his own professional field, and at the discretion of the examiners there may be an oral examination.

* Available from October 1972.
† Other subjects may be substituted with the approval of the Board of the Faculties of Arts, Economics, and Social Studies and Law.

Economic Studies

The schemes of advanced study leading to the degree of Master of Arts by examination in subjects within the School of Economic Studies will extend over one academic year, starting in October, except for the scheme in transport economics which will extend over one calendar year.

It is expected that candidates taking the specialist fields, economic statistics, economic development, transport economics and labour economics will be graduates in economics, while candidates taking economic history will be graduates in economic history, or have followed degree schemes with substantial economic history content.

Candidates admitted to the schemes will take courses of lectures in one of the following specialist fields leading to an examination in each course as indicated (at the discretion of the examiners, an oral examination may be included).

Economic Statistics

Advanced economic theory (1 paper)
Methodology of economic statistics (1 paper)
Two special courses in economic statistics (2 papers)

Economic Development

Advanced economic theory (1 paper)
Methodology of economic development (1 paper)
Two special courses in economic development (2 papers)

Transport Economics

Advanced economic theory (1 paper)
Methodology of transport economics (1 paper)
Two special courses in transport economics (2 papers)
Course project

Labour Economics

Advanced economic theory (1 paper)
Methodology of labour economics (1 paper)
Two special courses in labour economics (2 papers)

Economic History

Advanced economic theory (1 paper)
Methodology of economic history (1 paper)
Two special courses or periods in economic history (2 papers

Education

The scheme of advanced study leading to the degree of Master of Arts by examination in education will extend over one academic year, starting in October.

Applicants will normally be expected to have a good honours degree, a graduate certificate in education of an approved university and teaching experience.

Students will be examined in three written papers on courses selected from the list below, and in a fourth paper on a special course to be chosen in consultation with the head of the Department.

1. Philosophy of education
2. Educational psychology
3. History of education
4. Sociology of education
5. Curriculum theory
6. Measurement in education
7. Educational administration
8. Comparative education
9. Computers in education.

Not all of these courses will necessarily be available in each year. At the discretion of the examiners there may be an oral examination.

Students accepted for the scheme will not have a free choice of courses, but will be required to take those which will ensure that the work for the higher degree is appropriately related to the content of their first degree.

English

English Literature

Studies will normally extend over one academic year.

Candidates will be required to attend three courses chosen with the approval of the chairman of the School of English. A list of the courses available will be published by the School each year, and will include courses in:

American literature
Anglo-Irish literature
Commonwealth literature
English literature

These will be based on the study of a genre, a particular period, an author, or group of authors. Courses will also be available in special subjects, e.g. bibliography and textual criticism, drama, etc.

The scheme of examination will be as follows:

Three written papers covering the year's course work*
A minor research exercise
An oral examination (if required by the examiners).

American Literature

Studies will normally extend over one academic year.

Candidates will be required to take three of the postgraduate courses in American literature being offered in any year. These will consist of courses on particular periods, which may include:

The American Renaissance, 1830-60
The Gilded Age, 1865-80
The Progressive period, 1880-1910
The inter-war years, 1920-40

* In exceptional cases, and with the permission of the chairman of the School of English, one of the written papers will be replaced by an extended essay.

or on special subjects, which may include:
Transcendentalism, realism and naturalism in American fiction
19th-century American poetry
The American expatriate writers
Modern American poetry
Not all of these courses will necessarily be available in each year.
The scheme of examination will be as follows:
Three written papers covering the year's course work*
A minor research exercise
An oral examination (if required by the examiners).

Anglo-Irish Literature

Studies will normally extend over one academic year.
Candidates will be required to take at least two of the available postgraduate courses in Anglo-Irish literature being offered in any year. These will consist of courses on particular genres or periods, which may include:
The 19th-century Irish novel
The 20th-century novel and short story
Anglo-Irish drama, 1890-1922
Anglo-Irish drama, 1922-1968
The Irish Renaissance
or on special subjects, which may include:
Modern Irish poetry
The literature of the Irish city (Moore, Joyce and Gogarty)
or on special authors, which may include:
Yeats
Shaw
Synge
Joyce
Not all of these courses will necessarily be available in each year.
The scheme of examination will be as follows:
Three written papers covering the year's course work*
A minor research exercise
An oral examination (if required by the examiners).

English Language and Medieval Literature

Studies will normally extend over one academic year.
Candidates will be required to attend three courses chosen from the following list; at least two of these must be subjects already studied to first-degree level, while the third may be a subject of which the candidate has no previous knowledge:
Old English literature (selected author, period or genre)
Middle English literature (selected author, period or genre)
English philology (selected topics)
Old Icelandic literature
Medieval Welsh literature
Early Irish literature
Gothic and Germanic philology
Anglo-Saxon art and archaeology
English dialectology†

* In exceptional cases, and with the permission of the chairman of tne School of English, one of the written papers will be replaced by an extended essay.
† Other courses approved by the Board of the Faculties of Arts, Economic and Social Studies and Law may be substituted for any of the above.

and to attend *one* of the following courses given by the Graduate Centre for Medieval Studies:

A1 Basic techniques in medieval studies
A2 Medieval Latin

The scheme of examination will be as follows:

Four written papers covering the year's course work, *or* three written papers and a minor research exercise.

An oral examination (if required by the examiners).

Linguistics and English Language Teaching *see* page C130.

Celtic Studies

Studies will normally extend over one academic year. Under article 19 of Ordinance II (page C3) candidates must have a satisfactory knowledge of the subject. For those not qualified under article 19, and accepted under article 20, studies will extend over two academic years.

Candidates will be required to attend courses in:

Old, Middle, and early Modern Irish, with Irish history and literature
Old, Middle, and Modern Welsh, with Welsh history and literature.

With the approval of the chairman of the School of English, one of these courses may be replaced in part by one of the following courses:

Arthurian literature in Irish and Welsh
Celtic philology and epigraphy
Early Scottish Gaelic, *or* Manx, *or* Cornish
Latin literature in Celtic translations
or by an extended essay or written exercise on a linguistic or literary theme.

Candidates taking the two-year course will be required to attend one of the above optional courses in addition to the full Irish and Welsh courses.

The scheme of examination will be as follows:

Four written papers covering the year's course work, *or* Three written papers and an extended essay or written exercise on a linguistic or literary theme.

Icelandic Studies

Studies will normally extend over one academic year. Under article 19 of Ordinance II (page C3) candidates must have a satisfactory knowledge of the subject. For those not qualified under article 19, and accepted under article 20, studies will extend over two academic years.

Candidates will be required to attend courses in:

Old Icelandic language and literature
Modern Icelandic language and literature
History and institutions of Iceland.

The scheme of examination will be as follows:

Four written papers covering the year's course work
or Three written papers and an extended essay or written exercise on a linguistic or literary theme.
An oral examination (if required by the examiners).

Dialectology

Studies will normally extend over one academic year.

Candidates will be required to attend courses in:
History and development of dialect studies
Linguistic geography and atlas work

and in two of the following courses:
Phonetics of English dialects
English philology
Folk life studies
Old Icelandic
Welsh
General linguistics
Description of English.

The scheme of examination will be as follows:
Three written papers covering the year's course work
A minor research exercise based on field work
An oral examination (if required by the examiners).

Bibliography and Textual Criticism

Studies will normally extend over one academic year.

Candidates will be required to attend courses in*:
Bibliography
Textual criticism
Theory and practice of printing
Palaeography
Sources and methodology

The scheme of examination will be as follows:
Three written papers covering the year's course work, supplemented by practical tests as required.
A minor research exercise
An oral examination (if required by the examiners).

Folk Life Studies

Studies will normally extend over one academic year.

Candidates will be required to attend three courses chosen, with the approval of the chairman of the School of English, from the following*:
Theory and principles of folk life studies
Oral literature
Custom and belief
Regional British and European ethnology

The scheme of examination will be as follows:
Three written papers covering the year's course work
A minor research exercise
An oral examination (if required by the examiners).

* Other courses may be submitted with the approval of the Faculties of Arts, Economic and Social Studies and Law.

Drama and Theatre Arts

Candidates will normally be expected to have made some significant study of drama or dramatic literature during the course of their studies at first degree level.

Studies will normally extend over one academic year.

Candidates will be required to attend a course in Theory and practice of the arts of the theatre and in *two* courses selected from the following* with the approval of the chairman of the School of English:

1. Directing (aspects of the director's role; study of individual directors and their contribution to the theatre)
2. Radio and television drama
3. Technical theatre and stage (and scenic) designs: aspects of the practice and theory of design in a period from the 18th century to the present day
4. A period of theatrical history
5. A particular dramatic genre: e.g. study of tragedy, *or* comedy, *or* satire, etc.
6. Acting: aspects of the art of the actor; theories of acting; studies of individual actors
7. Playwriting: aspects of the playwright's craft; an historical and contemporary view
8. The natures of the play, opera and ballet as forms of the theatre.

Not all these courses will necessarily be available in each year.

Candidates will also be required to participate in a course production.

The scheme of examination will be as follows:

Two written papers covering the year's course work, supplemented by practical tests as required
A minor research exercise
Assessment of a practical project
An oral examination.

Modern English

Studies will normally extend over one academic year.

Candidates will be required to attend courses in the following:

The structure of present-day English
The English language since 1600
Stylistics.

Candidates will select one further course:

either The English language in the Commonwealth
or with the approval of the chairman of the School, a relevant course within one of the other M.A. schemes offered by the School of English.

The scheme of examination will be as follows:

Three written papers covering the year's work†
A minor research exercise
An oral examination (if required by the examiners).

* Other courses may be substituted with the approval of the Board of the Faculties of Arts, Economic and Social Studies and Law.

† In exceptional cases, and with the permission of the chairman of the School, one course may be examined by an extended essay.

Greek

1. Prescribed Greek books (1 paper)
2. Prescribed author or literary genre (1 paper)
3. Special subject (1 paper)
4. *Either* Unprepared translation (2 papers)
   Or At the discretion of the head of the Department, an extended essay (of not more than 10,000 words) on a literary, historical or philosophical theme
5. An oral examination (if required by the examiners).

Latin

1. Prescribed Latin books (1 paper)
2. Prescribed author or literary genre (1 paper)
3. Special subject (1 paper)
4. Language, including unprepared translation (1 paper)
5. General paper (1 paper)
6. An oral examination (if required by the examiners).

At the discretion of the head of the Department, an extended essay (of not more than 10,000 words) on an approved theme may be offered in place of papers 4 and 5.

Icelandic Studies, *see page* C127

Linguistics and English Language Teaching

Studies will normally extend over one academic year.
Candidates will be required to attend courses in:
1. General linguistics
2. Description of English
3. Phonetics
4. Language learning and language teaching

and one further course selected, with the approval of the chairman of the School of English, from the following:

1. Contrastive language study
2. Dialectology
3. Sociolinguistics
4. Stylistics
5. Television and language teaching

and such other options as may be available from time to time, and approved by the Board of the Faculties.
The scheme of examination will be as follows:
Three written papers covering the year's course work, supplemented by oral or practical tests as required
A minor research exercise
An oral examination (if required by the examiners).

Management Science

The scheme of advanced study leading to the degree of Master of Arts by examination in Management Science is offered jointly by the Departments of Management Studies and Computational Science, and will extend over one academic year starting in October.

Candidates will normally be graduates in a pure science, applied science, or quantitative social science, but consideration may be given to graduates in other subjects who can show sufficient evidence of numeracy.

Candidates admitted to the scheme will proceed by:

1. Attending approved courses of advanced study as follows:
   (a) Operational research
   and *either*
   (b) (i) Systems models of the firm
   *(ii) One course determined each year by the head of the Department of Management Studies
   or
   (c) (i) Computing (first term) followed by† one course determined each year by the head of the Department of Computational Science
   (ii) Operational research practice and elementary statistics (first term), followed by Operational research and its environment
2. Preparing a dissertation on an investigation in connection with one of their fields of study.

The examination will normally consist of four written papers of three hours each, an assessment of the dissertation and of other work undertaken during the course and, at the discretion of the examiners, an oral examination.

Medieval Studies

Candidates proceeding to the degree of Master of Arts in Medieval Studies will be required:
(a) to take, from the list below, the courses in Section A and *either* one course from Section B and one course from Section C, *or* with the approval of the director and Board of Studies, two courses from Section C;
(b) to satisfy the examiners in the papers in the written paper or long essay, or combination of the two, in the final examination on each course taken, as follows:

A. 1. Basic techniques in medieval studies: bibliography, diplomatic, palaeography, textual criticism
   2. Medieval Latin

B. 1. Medieval economic history
   2. Medieval ecclesiastical history
   3. Medieval art and architecture
   4. Medieval archaeology
   5. Medieval music
   6. The study of nature in medieval thought
   7. Medieval French language and literature
   8. Middle High German language and literature
   9. Medieval Spanish language and literature
   10. Medieval Irish language and literature
   11. Medieval Welsh language and literature
   12. Old Icelandic language and literature
   13. Old English language and literature
   14. Middle English language and literature
   15. Medieval religious thought

C. 1. Medieval theology
   2. Medieval philosophy
   3. The archive sources of English medieval economic history
   4. Medieval Hebrew *or* Arabic
   5. Medieval Italian lyric poetry
   6. A special period, topic or author (to be approved by the director and Board of Studies)

* The course for 1971-72 will be Socio-technical systems.
† The course for 1971-72 will be Advanced operational research techniques.

Notes:

(a) Section C contains advanced courses to which only those candidates will be admitted whose first degree has included a sufficient preparation for the course.

(b) It may not be possible in any one year to offer all the courses listed in sections B and C.

Each course taken for the degree of Master of Arts in Medieval Studies will be examined by means of a written paper or a long essay or a combination of the two at the end of each course. There will be an oral examination and the examiners may also take into account written work done during the course. Candidates will normally be expected to satisfy the examiners in all four subjects of the examination.

Mongolian Studies

The scheme of advanced study leading to the degree of Master of Arts by examination in Mongolian studies will extend over one academic year starting in October.

Candidates will normally be graduates with a good honours degree and should possess an appropriate qualification such as the diploma in Mongol language and Mongolian studies of this University, or its equivalent from another university.

The course will consist of an advanced study of the Mongol language, including Mongol script. Candidates will be expected to work on the translation of contemporary Mongol documents of social and historical significance. The social and political relationships of Mongolia with Russia and China will receive special consideration.

The course will consist of lectures and seminars totalling 100 hours.

The scheme of examination will be as follows:
2 papers in Mongol history and contemporary institutions
2 papers in Mongol language
An oral examination
A dissertation

Music

1. General paper (1 paper)
2. Special period (1 paper)
3. Special subject (1 paper)
4. Composition (2 papers)
5. An oral examination
6. Orchestration (1 paper)

In place of the papers dealing with composition and orchestration candidates may submit an original composition for orchestra, chorus, orchestra and chorus, or chamber combination of not less than thirty minutes' duration. Permission to submit such a composition must be sought when applying to enter for the examination.

Organisation Studies

The scheme of advanced study leading to the degree of Master of Arts by examination in organisation studies will extend over one academic year starting in October.

Candidates admitted to the scheme may proceed by:

1. Attending approved courses of advanced study as follows:
   (a) Theories of organisation
   (b) Social psychology of organisations

(c) One special subject selected from the following, the choice being subject to the approval of the head of the Department of Management Studies:
(i) Manpower studies
(ii) Organisational ecology
(iii) Methods of diagnosis in organisations
(iv) Models and methods of decision-making
(v) Processes of social and economic change within organisations
(vi) Information and control processes within organisations.

Not all these courses will necessarily be available in each year.

2. Preparing a dissertation on an investigation in connection with one of their fields of study.

The examination will normally consist of three written papers of three hours each, an assessment of the dissertation and, at the discretion of the examiners, an oral examination.

A candidate who fails to present himself for examination at the end of the academic year in which he took the course may present himself for examination at the end of a subsequent academic year, subject to the approval of the head of the Department of Management Studies.

A candidate who presents himself for examination but does not satisfy the examiners may be given permission to present himself for examination in the succeeding year if the examiners so recommend No candidate shall present himself for examination more than two years after the end of the academic year in which he was first registered for the course.

Phonetics

The scheme of advanced study leading to the degree of Master of Arts by examination in Phonetics will extend over not less than one academic year, starting in October.

Candidates admitted to the scheme will take the following courses leading to an examination which will normally consist of three papers, an assessment of the dissertation, and an oral examination:

1. General phonetics and phonology (2 papers)
2. One special subject selected from the following:
   (a) Instrumental phonetics (1 paper)
   (b) The phonetics and phonology of a language (which may be the candidate's own) (1 paper)
   (c) Applications of phonetics (1 paper)
   (d) The pathology of speech (1 paper)

In addition candidates will be required to submit a dissertation on an approved subject.

Physical Education

The scheme of advanced study leading to the degree of Master of Arts by examination in Physical Education will extend over one academic year, starting in October.

Applicants will normally be expected to have either a first- or second-class honours degree in which physical education has been a principal subject, or a first- or second-class honours degree together with approved qualifications in physical education.

All candidates will take the course "Theory of physical education" and three other courses from the following list:

1. Measurement in physical education
2. Comparative physical education
3. Administration of sport and physical recreation
4. Biomechanical study of skilled behaviour
5. Psychological study of skilled behaviour
6. Motor impairment

7. An aspect of the history of dance
8. Movement in dramatic art
9. A special course chosen in consultation with the head of the department.

Not all these courses will necessarily be available in each year. Students accepted for the degree will not have a free choice of courses, but will be required to take those which ensure that the work for the higher degree is appropriately related to their previous studies.
There will be a written examination on each course. At the discretion of the examiners there may be a practical or oral examination.

Politics

The scheme of advanced study leading to the degree of Master of Arts by examination in Politics will extend over one calendar year starting in October.

Candidates admitted to the scheme will be examined in:
1. Comparative government (1 paper)
2. Political sociology (1 paper)
3. A long essay on a special subject approved by the tutor*
4. Presentation of two reports on topics within the special subject to be approved by the tutor*
5. An oral examination if required by the examiners.

Religious Studies

The scheme of advanced study leading to the degree of Master of Arts by examination in Religious Studies will normally extend over one academic year starting in October. Applicants will normally be expected to have a good honours degree in theology or religious studies.
Students will be examined in three written papers and an essay and may be required to present themselves for an oral examination.

The scheme of examination is as follows:
1. One of the following (1 paper)
   (a) Buddhist texts in Pali
   (from A. K. Warder, *Introduction to Pali*, Luzac, 1963)
   (b) Selected suras from the Quran in Arabic
   (c) Other texts in which instruction may be available, subject to the approval of the head of the Department.
2. Historical study of religion in one of the following areas (1 paper)
   (a) Britain
   (b) Ceylon and South-East Asia
   (c) Egypt and Mesopotamia
   (d) India and Pakistan.
3. One of the following (1 paper)
   (a) Principles of comparative theology
   (b) Methodology of the history of religion
   (c) Philosophy of religion

and an essay of 8,000 to 10,000 words on a subject to be approved by the head of the Department, and to be submitted not later than 1 June.

Semitic Languages and Literatures

Studies will normally extend over one academic year. Candidates will be required to attend three courses chosen with the approval of the head of the Department of Semitic Studies from

* The special subject for 1972 will be Government and politics of South and East Asia.

the number of courses available in the year concerned. It is hoped to include courses in the fields of:
Hebrew language
Arabic language
Aramaic-Syriac language
Comparative Semitic philology
North Semitic palaeography
Dialect studies in a selected Semitic language
Hebrew literature and culture
Arabic literature and culture
Aramaic-Syriac literature and culture

Not all of these courses will be available in any one year and new courses may be added with the approval of the Board of the Faculties of Arts, Economic and Social Studies and Law. (In the courses in the fields of Semitic literatures study will be based on a genre, a particular period, an author, or a group of authors.)

Courses will also be available from time to time in subjects such as bibliography, textual criticism, etc., and candidates may, with the approval of the head of the school or department concerned, be required to attend courses in any other school or department regarded as necessary for their studies.

The scheme of examination will be as follows:
3 written papers covering the year's course work
A minor research exercise presented in written form
An oral examination (if required by the examiners).

In exceptional cases, and with the permission of the head of the Department of Semitic Studies, one of the written papers may be replaced by an extended essay.
On the certificate issued to successful candidates there will be an indication of the particular field of the candidate's study (e.g. Semitic studies, Hebrew studies, Arabic studies, Aramaic-Syriac studies).

Sociology

The scheme of advanced study leading to the degree of Master of Arts by examination in Sociology will extend over one calendar year starting in October.

Candidates admitted to the scheme will be examined in:

1. Methods of social investigation (1 paper)
2. A special subject (1 paper)
3. Presentation of written work (one essay each term) in association with the special subject
4. Presentation of two reports on specialised sociological subjects to be approved by the tutor
5. An oral examination if required by the examiners.

For 1971-72 the special subject will be chosen from *one* of the following areas:
(i) Sociology of industry
(ii) Sociology of education
(iii) Sociology of developing countries

Spanish

1. Composition
2. Unprepared translation
3. Essay in Spanish
4. Spanish literature (3 papers)
5. A period of Spanish thought and civilisation
6. An oral examination.

Theology

Only those whose studies have already included theology or religious studies may be admitted to this scheme. The scheme extends over one academic year. Candidates must take four courses in all with an examination in each. Candidates may also be required to undergo an oral examination. The courses must be *either* two from each of two groups, *or* two from one group and one each from two other groups. Every candidate must take at least one of the courses (c), (d), (e) and (f) from at least one group from which he has already taken some courses as part of his previous qualifications. If a candidate takes courses from a group from which he has not previously taken any courses, he must take (a) and (b).

1. Old Testament
   (a) The history and religion of Israel to A.D. 70
   (b) Old Testament texts in Hebrew *or* English
   (c) Palestinian archaeology
   (d) Post-biblical Judaism
   (e) Old Testament prophecy
   (f) A special subject to be approved by the head of the Department of Theology

Some of these courses are given in the Department of Semitic Studies.

2. New Testament
   (a) Introduction to the Gospels and the Acts of the Apostles, translation, criticism and exegesis of a prescribed Gospel (in 1971-72 St. Mark)
   (b) Introduction to the Epistles and the Apocalypse. Translation, criticism and exegesis of a prescribed Epistle (in 1971-72 Hebrews)
   (c) New Testament christology
   (d) The Gospel tradition and its transmission
   (e) New Testament textual criticism
   (f) A special subject to be chosen with the approval of the head of the Department of Theology.

3. Church History
   (a) Church history 1: Introduction to the study of ecclesiastical history with a survey of the history of Christianity
   (b) Church history 2: two topics chosen from the following:
      (i) Eusebius' *Ecclesiastical History*
      (ii) The apologetic tradition in early and medieval Christianity
      (iii) The formation of catholicism
      (iv) Orthodoxy and heresy in the fourth century
      (v) Church and state in the post-nicene period
      (vi) Augustine and Augustinianism
      (vii) Christianity in western Europe in the eighth century
      (viii) Innocent III and his age
      (ix) Monasticism in western Europe
      (x) Theology and art in the patristic and early medieval periods
      (xi) Martin Luther and his interpreters
      (xii) Calvin and Calvinism
      (xiii) English religion in the seventeenth century
      (xiv) French religion in the seventeenth and eighteenth centuries
      (xv) Evangelicalism in England
      (xvi) F. D. Maurice, *The Kingdom of Christ*
      (xvii) The rise of atheism, agnosticism and non-Christian humanism
      (xviii) Nineteenth-century missions and the encounter of religions

(xix) The twentieth-century discussions of the relation of Christianity to western civilisation
(xx) Church, theology and politics in Germany since the Enlightenment
(c) North African Christianity
(d) Faith and history in German theology from Strauss to Schweitzer
(e) Conceptions and conduct of missions 1800 to 1950
(f) A special subject to be chosen with the approval of the head of the Department of Theology.

4. Biblical and Historical Theology
(a) The Incarnation and the Trinity
(b) The Atonement
(c) A selected theologian, e.g. Augustine, Aquinas, Luther, Calvin, Barth
(d) A selected doctrine, e.g. the Church, the Ministry, the Sacraments
(e) A special subject to be chosen with the approval of the head of the Department of Theology.

5. Philosophy of Religion
(a) The philosophical approach to religion
(b) Religious ethics with special reference to the Christian ethic
(c) Philosophical ethics
(d) Psychology of religion
(e) A special subject to be chosen with the approval of the head of the Department of Theology.

6. History of Religion
(a) and (b) A comparative study of Asian and Western religious beliefs and culture in *either* the period before *or* the period since A.D. 1600 with texts to be studied in English translation
(c) Comparative theology
(d) Sociology of religion
(e) A special subject to be chosen with the approval of the head of the Department of Theology.

Prescribed Schemes of Examination for the Degree of Master of Philosophy

Philosophy

1. A paper on a selected philosophical authority *or* a selected period of philosophical thought *or* a selected period in the history of science.
2. *Two* papers chosen from the following list:
   Moral philosophy
   Philosophy of religion
   Metaphysics and epistemology
   Political philosophy
   Logic
   Philosophy of science
   Aesthetics
   Philosophy of mind
3. A dissertation on a philosophical subject approved by the Senate. This must be submitted by the end of the first week in May of the year in which the examination is taken.
4. An oral examination.

Politics

1. Three papers, one of which will be on the general field of study, and two on special subjects: one of the latter will be related to the subject of the candidate's dissertation.
2. A dissertation on a subject approved by the Senate.
3. An oral examination.

Sociology

1. Three papers, one of which will be on the general field of study, and two on special subjects: one of the latter will be related to the subject of the candidate's dissertation.
2. A dissertation on a subject approved by the Senate.
3. An oral examination.

Regulations Prescribing Schemes of Study for Diplomas and Certificates

UNDERGRADUATE

Certificate in Arabic

The certificate in Arabic is designed to meet the requirements of those who desire a practical acquaintance with the Arabic language and literature and with the history of the Arab peoples and their institutions.

Candidates must furnish evidence satisfactory to the Senate of educational qualifications sufficient to enable them to profit by the course.

The scheme of study will normally extend over two years, and will consist of five lectures a week of one hour each, including one hour of conversation, to be given in the University.

A candidate producing evidence of having attained in Arabic the equivalent of a pass in the General Certificate of Education at the advanced level before beginning the course may, upon application to the Senate, be exempted from a portion of the course and qualify for the certificate after a period of study which will not in any case be less than one year.

The scheme will include, in the first year, elementary classical Arabic grammar, composition and conversation in Arabic, classical texts and modern texts, Arab history and antiquities; and, in the second year, more advanced grammar, composition and conversation in Arabic, classical texts, modern texts, lectures on Arab institutions, reading of Arabic newspapers, journals and other publications.

Examination

Part 1 of the examination will be held at the end of the first year, and part 2 at the end of the second year of the course. Candidates exempted from a portion of the course under regulation 4 may be required to present themselves for parts 1 and 2 of the examination in the same year. Each examination will consist of two papers.

The certificate will be awarded to candidates who have completed the requisite period of study and have passed both parts of the examination.

Diploma in Hebrew

The diploma in Hebrew is designed to meet the requirements of those who desire a practical acquaintance with the Hebrew language and literature and the history of the Jewish people and their institutions.

Candidates must furnish evidence satisfactory to the Senate of educational qualifications sufficient to enable them to profit by the course.

The scheme of study will normally extend over two years and will consist of five lectures a week of one hour each, including one hour of conversation, to be given in the University. A candidate producing evidence of having attained in Hebrew the equivalent of a pass in the General Certificate of Education at the advanced level before beginning the course may, upon application to the Senate, be exempted from a portion of the course and qualify for the diploma after a period of study which will not, in any case, be less than one year.

The scheme of study will include:

First year: elementary biblical Hebrew, grammar including syntax, composition, retranslation and pointing of prescribed portions, translation of prescribed prose passages of Old Testament and post-biblical Hebrew; introduction to Jewish literature; outline of Jewish history to A.D. 130.

Second year: prescribed poetical passages from the Old Testament; prescribed modern Hebrew texts; comparative Hebrew grammar and syntax; outline of Jewish history from A.D. 130 and of the development of Jewish religious ideas and institutions.

Examination

Part 1 of the examination will be held at the end of the first year and part 2 at the end of the second year of the course. Candidates exempted as above from a portion of the course may be required to present themselves for parts 1 and 2 of the examination in the same year. Each examination will consist of two papers.

The diploma will be awarded to candidates who have completed the requisite period of study and have passed both parts of the examination.

POSTGRADUATE

Certificate in Applied Social Studies

Qualifications for Admission

Candidates for the course should be graduates with appropriate qualifications in social administration, sociology or psychology. Normally they will be expected to have had at least one year's practical experience in a social work agency, but exceptionally candidates without this experience may be considered, provided they have completed two months' experience arranged by the University prior to the course in such an agency.

Structure of Course

The course will extend over one calendar year. Academic and practical work will be concurrent during term time, but a block period of about six weeks' practical work will follow the close of the summer term, and two periods of residential work in appropriate establishments will, if possible, be arranged at other times during the course.

Academic Content of Course

A. Students will be required to attend the following courses:
1. Human growth and development
2. Social work method
3. Professional and administrative practice
4. Aspects of law
5. The social services

B. Where appropriate students will also be required to study any of the following:
1. Social policy
2. Social pathology
3. Social ethics
4. Aspects of psychiatry.

Individuals may be excused attendance at formal courses in these latter subjects, (B), provided evidence is forthcoming that these areas have been adequately covered in previous courses. In all cases, however, tutorials will be required.

Practical Work Content of Course

Practical work will include:
1. Placement affording supervised experience in case work, group work and/or community work

2. Placements affording supervised experience in a residential institution or residential institutions
3. Project work designed to enable students to study, under supervision, the administrative or management aspects of an organisation.

The practical and academic content of the course are seen as being complementary to each other.

Student Assessment

The certificate will be awarded to students who:

1. Attend approved courses.
2. Carry out the prescribed practical work and submit written reports to the satisfaction of internal and external examiners
3. Complete written assignments and any other project(s) which are to the satisfaction of internal and external examiners.

Graduate Certificate in Education

Candidates for the graduate certificate in education must be graduates of a university in the United Kingdom or must have obtained such other academic qualifications as shall be approved by the Senate of the University.

Students wishing to become specialist teachers of modern languages should normally have completed an approved period of residence abroad before admission to the graduate certificate course.

The course for students reading for the graduate certificate in education begins in mid-September and ends at the close of the academic year.

The course for the graduate certificate in education is both theoretical and practical. There are periods of teaching practice, together lasting for at least twelve weeks. An initial period of observation and/or teaching practice is undertaken at the beginning of the course, normally in a primary school. Further practice is taken with older pupils in schools or colleges in or near Leeds.

Courses are provided as follows:

1. General courses
   (a) Theory of education
   (b) Educational psychology
   (c) The educational system of England and Wales; its recent history and social background
   (d) Secondary education

These courses are followed by all students.

2. Method courses

Courses are provided on methods of teaching the various school subjects; students are normally required to take two of these method courses.

[A special course in the coaching of games may be taken as part of the course for the graduate certificate in education. This course is limited to a small number of selected candidates. Further particulars may be obtained from the head of the Department of Physical Education.]

3. Elective courses

The following courses are held during the first and third terms, and each student is required to attend *one*. The choice of course is made early in the first term.

Comparative education
Further psychology
Greek for beginners
History and philosophy of science
Literature and civilisation
Philosophic literature of education

Not all these courses will necessarily be available in any one year and new courses may be added from time to time.

4. Optional courses

Students may take one of these courses.

(a) Music appreciation
(b) Outdoor activities
(c) Painting

The examination for the graduate certificate in education is in two parts: Part I—the examination of theoretical work; and Part II—the examination of practical teaching. The graduate certificate will be awarded only to candidates who have satisfied the examiners in both the theoretical and the practical parts of the examination.

Part I. In each of the subjects

(i) Theory of education
(ii) Educational psychology
(iii) The educational system of England and Wales; its recent history and social background

candidates may choose to be examined either by a three-hour written paper, or by an essay of 3,000—5,000 words.

The titles of the essays will be chosen by candidates from lists of titles, one list for each of the three subjects enumerated above. The written papers will be taken in May/June and the essays will be handed in by the candidates on the first day of the written examination.

In addition, all candidates will be required to submit for examination:

1. A long essay of 8,000 words or two short essays, each of approximately 3,500 words, or a comparable piece of work (normally these studies will be concerned with aspects of the teaching of particular subjects)
2. A number of prescribed pieces of method work
3. Two tutorial essays on approved educational subjects.

Part II. The final assessment for practical teaching is given on the work done throughout the period of supervised teaching practice.

The list of successful candidates will be published in two divisions. The names in each will be placed in alphabetical order. Distinction may be awarded to candidates who achieve a sufficiently high standard in Part I of the examination and commendation to those who achieve a sufficiently high standard in Part II.

A candidate failing in Part I and/or in Part II may, on the recommendation of the examiners, be allowed to present himself for re-examination on not more than two subsequent occasions.

Graduate students who are successful in this examination will be recommended to the Leeds University Institute of Education for the award of Qualified Teacher Status. The University examiners may bring before a Joint Examining Committee of the Department of Education and the Institute of Education the names of candidates who have not been successful in the examination for the graduate certificate to be considered for recommendation by the Board of the Institute of Education for the award of Qualified Teacher Status.

Regulations for diplomas in primary and secondary education, the education of backward children, physical education and religious education will be found in the *Handbook* of the University of Leeds Institute of Education available from the Secretary, The Institute of Education, The University of Leeds, Leeds, LS2 9JT.

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English

Postgraduate Diploma in English Studies

All candidates must be graduates of the University of Leeds or of another approved university or must possess equivalent qualifications approved by the Senate.

Candidates will be required to attend the University of Leeds for at least one academic year of full-time study. In exceptional cases, by permission of the Board of the Faculty and upon the recommendation of the professor of English literature, or the professor of English language and medieval literature, they may extend their studies and become candidates for the degree of Master of Arts.

Candidates shall attend the following courses and must satisfy the examiners in the examinations and other tests prescribed:

1. Editorial and scholarly method
   Bibliography

2. Such of the following courses as may be prescribed by the professor of English literature or the professor of English language and medieval literature:

   Criticism
   Study of a particular period
   Study of a particular author
   Study of a particular genre
   Shakespeare
   Milton
   Contemporary English literature*
   American literature
   Commonwealth literature
   Contemporary English language
   English phonetics
   The teaching of English as a foreign language
   Any other course (subject to the approval of the head of the department concerned).

3. An exercise in research on a subject in literature or language to be approved by the professor of English literature or the professor of English language.

Note: The course in (1) will normally be covered in one term.

The course in (2) will normally be covered in one year and generally not less than three nor more than five such courses will be prescribed.

The exercise in (3) will normally be set before the end of the first term and must be handed in before the end of the second term.

A diploma with distinction may be awarded to a student whose work is judged to be of outstanding merit.

Postgraduate Diploma in English as a Second Language

All candidates must be graduates of the University of Leeds or of another approved university or must possess equivalent qualifications approved by the Senate.

Candidates will be required to attend the University of Leeds for one year of full-time study.

* Only available to candidates whose native language is not English.

Candidates shall attend the following courses:
1. Description of English
2. Phonetics
3. English language teaching
4. Theory of education
5. Sociology of education
6. Psychology of education.

Part of the work for the diploma will consist of teaching practice, including a period spent in a country where English is not the mother tongue.

In order to qualify for the diploma candidates must satisfy the examiners in the written examinations (including such written exercises as may be required during the year) and in practical teaching. The examination also includes a short practical test in phonetics.

A diploma with distinction may be awarded to a candidate whose work is judged to be of outstanding merit.

Postgraduate Diploma in Folk Life Studies

All candidates must be graduates of the University of Leeds or of another approved university, or must possess equivalent qualifications approved by the Senate.

Candidates will be required to attend the University of Leeds for at least one academic year of full-time study. In exceptional cases, by permission of the Board of the Faculty and upon the recommendation of the chairman of the School of English, they may extend their studies and become candidates for the degree of Master of Arts.

Candidates will be required to attend courses in:
1. Theory and principles of folk life studies
2. Fieldwork, library and archive techniques
3. Material culture and terminology
4. *Either* Oral literature, *or* one of the following courses as may be prescribed by the chairman of the School of English:
   English dialectology
   Romano-British archaeology
   Anglo-Saxon art and archaeology
   Medieval archaeology
   Historical geography of Great Britain
   Social geography
   Fine art

All candidates will be required to undertake a minor research exercise based on fieldwork.

The scheme of examination will be as follows:
1. Three written papers covering the year's course work.
2. A minor research exercise
3. An oral examination.

A diploma with distinction may be awarded to a student whose work is judged to be of outstanding merit.

Postgraduate Diploma in Celtic Studies

The diploma in Celtic studies is designed to provide for the needs of postgraduate students who desire an introduction to the principal Celtic languages for literary, linguistic, or historical purposes. The course assumes no previous knowledge of the subject.

All candidates must be graduates of the University of Leeds or of another approved university, or must possess equivalent qualifications approved by the Senate. In addition, a good working knowledge of Latin is desirable.

Candidates will be required to attend the University of Leeds for at least one academic year of full-time study.

Candidates shall attend the courses and satisfy the examiners in the examinations and other tests prescribed:

1. Medieval Irish language and literature
2. Medieval Welsh language and literature
3. Modern Welsh*; outlines of Celtic history.

A diploma with distinction may be awarded to a candidate whose work is judged to be of outstanding merit.

Those who gain the diploma at an approved standard will be eligible for admission to the course leading to the degree of Master of Arts in Celtic Studies.

Postgraduate Diploma in Icelandic Studies

The postgraduate diploma in Icelandic studies is designed to provide for the needs of post-graduate students who desire an introduction to the knowledge of Icelandic for literary, linguistic or historical purposes. The course can be concentrated on either the Old Icelandic or the Modern Icelandic period, according to the needs of prospective candidates; but all candidates will be expected to study both Old and Modern Icelandic. Those opting for Modern Icelandic will need to maintain continuity from medieval times, and those opting for Old Icelandic must be able to make use of scholarly works and editions written in the modern tongue.

Candidates for admission must be graduates of the University of Leeds or of another approved university or must possess equivalent qualifications approved by the Senate. It is desirable that all candidates opting for Old Icelandic should have a reading knowledge of Latin or should already have studied some other medieval language and literature.

Candidates will be required to attend the University of Leeds for at least one year of full-time study.

Candidates shall attend the following courses and must satisfy the examiners in the examination and other prescribed tests:

1. Old Icelandic language and literature
2. History and institutions of medieval Iceland *or* history and institutions of modern Iceland
3. Modern Icelandic language and literature

Candidates may also be required to attend appropriate courses in medieval history or another medieval literature.

The examination for the diploma will consist of three written papers and an oral examination. A diploma with distinction may be awarded to a student whose work is judged to be of outstanding merit.

Postgraduate Diploma in Mongol Language and Mongolian Studies

The diploma course is intended for those who are planning to go on to become specialists on Mongolia, its language, history and institutions, or for those who, already having a degree in Chinese, Japanese, or Russian studies, want to add Mongolian studies as a subsidiary interest and qualification. In the special case of linguists who want to study Mongol as a non-Indo-European language for comparative purposes, the course could be modified to include more intensive language work.

* The use of a Welsh-English dictionary will be allowed for this paper. Its purpose is to test the candidate's ability to read modern Welsh prose on a range of scholarly topics.

The course will extend over one academic year. A candidate will be required:
1. To attend approved courses
2. To work in the language laboratory, using taped exercises in pronunciation and conversation
3. To read and translate assigned texts
4. To attend lectures on the history and social, political and economic institutions of Mongolia and, after the first term, to write papers for seminar discussion
5. To satisfy the examiners by passing an oral and a written examination.

The examination will consist of four three-hour papers:
Mongol language—translation into English
Written Mongol—translation from English
Mongolian history 1911 to 1961
Mongolian institutions
and a dissertation on an approved or prescribed subject.

A diploma may be awarded with distinction to a candidate whose work is judged to be of outstanding merit.

Postgraduate Diploma in Phonetics

All candidates must be graduates of the University of Leeds or of another approved University or must possess equivalent qualifications approved by the Senate.

Candidates will be required to attend the University of Leeds for at least one academic year of full-time study.

The diploma course is designed to bring suitable students who have *not* taken the full undergraduate course in general phonetics in the University of Leeds up to the entry level for the degree of Master of Arts in phonetics, or to serve as the coursework component for the degree of Master of Philosophy in phonetics, or to serve as a separate professional qualification.

Candidates will be required to attend approved courses as follows:
1. General phonetics
2. Phonological theory
3. Phonetics and phonology of English
4. Ear training classes
5. Practical performance classes
6. Tutorials

and as appropriate:
7. General linguistics
8. Applied linguistics
9. Phonetics and phonology of languages other than English.

In order to qualify for the diploma candidates must satisfy the examiners in the written and oral examinations, including such exercises as may be required during the year.

A diploma with distinction may be awarded to a candidate whose work is judged to be of outstanding merit.

Postgraduate Diploma in Semitic Studies

All candidates must be graduates of the University of Leeds or of another approved university or must possess equivalent qualifications approved by the Senate.

Candidates will be required to attend the University of Leeds for at least one academic year of full-time study. In cases where candidates have shown sufficient merit during the course of this year, they may, by permission of the Board of the Faculty upon the recommendation of the head of the Department of Semitic Studies, be permitted to extend their studies and become candidates for the degree of Master of Philosophy.

Candidates shall attend the following courses and must satisfy the examiners in the examination and other tests prescribed:

1. General scholarly method, with special reference to the editing of texts
   Bibliography

2. Such of the following courses as may be prescribed by the head of the Department of Semitic Studies:

   Hebrew or Arabic or Aramaic-Syriac philology
   Comparative Semitic philology
   Hebrew or Arabic or Aramaic-Syriac palaeography, and the study of manuscripts
   Literary criticism
   Hebrew or Arabic phonetics
   Study of a particular period
   Study of a particular author
   Contemporary Hebrew or Arabic language
   Contemporary Hebrew or Arabic literature
   Hebrew or Arabic history
   Hebrew or Arabic archaeology
   The history of Hebrew or Arabic studies

Any other courses in the department regarded as relevant by the head of the Department of Semitic Studies

Any other courses outside the department (subject to the approval of the head of the department in question)

3. An exercise in research on a subject in literature or language to be approved by the head of the Department of Semitic Studies.

The courses in (1) will normally be covered in one term. The courses in (2) will normally be covered in one year and generally not less than three nor more than five such courses will be prescribed. The exercise in (3) will normally be set before the end of the first term and must be handed in before the end of the second term.

A diploma with distinction may be awarded to a student whose work is judged to be of outstanding merit.

Postgraduate Diploma in Textile Design

All candidates must be graduates of the University of Leeds or of another approved university or must possess an equivalent qualification such as a Diploma in Art and Design (Dip.A.D.).

Candidates will be required to attend the University of Leeds for at least one academic year of full-time study.

Candidates shall attend the following courses and must satisfy the examiners in the examinations and other tests prescribed:

1. General textile technology
2. Such of the following courses as may be prescribed by the head of the Department of Textile Industries:
   (a) Methods of fabric production (weaving, machine knitting and unconventional methods, fabric finishing)
   (b) Properties of textile fabrics
   (c) Printed textiles
   (d) Prescribed courses given in the Department of Fine Art.

The examination will consist of three written papers, an oral examination and an assessment of work carried out during the year.

Candidates will also be required to submit a portfolio of original designs for a specific type of textiles and if required, the work must be available for exhibition. In awarding the diploma special emphasis will be given to the quality of the original work.

3. A diploma with distinction may be awarded to a student whose work is judged to be of outstanding merit.

Postgraduate Diploma in Theology

All candidates must be graduates of the University of Leeds or of another approved university or must possess equivalent qualifications approved by the Senate.

Candidates will be required to attend the University of Leeds for two academic years of full-time study. Students of the associated College of the Resurrection at Mirfield reading for the diploma may take one course in the College.

There will be a final examination of seven papers at the end of the second year:

1. Old Testament, with text in English, in 1972 Isaiah 1-14, Job (1 paper)

2. New Testament, with text in Greek (in 1972 St. Luke and II Corinthians) or English (in 1972 Romans and St. Matthew) (2 papers)

3. Church history: one of the following (1 paper)
   (a) The Church in the Roman Empire to A.D. 451
   (b) Medieval Christendom (from the 11th to the 15th centuries)
   (c) The Reformation era
   (d) Christianity in the modern world

4. Christian theology (the doctrines of the Trinity, the Incarnation and the Atonement) (2 papers)

5. *One* of the following:
   Philosophy of religion
   Comparative religion
   Sociology of religion
   Christian ethics
   or a subject approved by the head of the Department of Theology.

A diploma with distinction may be awarded to a student whose work is judged to be of outstanding merit.

Postgraduate Diploma in Health Services Administration

This diploma course is intended both for those considering or pursuing a career in health services administration, including hospital administration, and as an introduction to the subject for those who are interested in research into the organisation, operation and administration of health services. In addition to the course a period of observation of the operation and administration of the National Health Service may be prescribed at the discretion of the University. The length and nature of this period would be determined in the light of the candidate's previous experience.

Any candidate entering upon the course must have graduated at an approved university or hold an approved professional qualification. Exceptionally, other candidates may be accepted for the course either by passing a special examination or by submitting evidence, acceptable to the Senate, to show that they are at a sufficient standard to undertake the course.

The course, which extends over one academic session, requires candidates to prepare for examination in three compulsory subjects:

Social structure, public and social administration
Community health care
Social psychology of organisations

and *one* of the following:

Statistics including statistical method
Comparative medical care
Medical sociology
Economics and accounting
Social research methods

or at the discretion of the director of the course, one other subject in the field of health services administration.

or a dissertation of 5,000 to 8,000 words on a topic to be approved by the director of the course.

A candidate who has previously successfully completed, for his first degree, a course of study of a major part of one of the compulsory subjects listed above will be required to take a second elective subject.

A diploma may be awarded with distinction to a candidate whose work is judged to be of outstanding merit.

Courses in Arts

Chinese Studies

Chinese Studies 1

First Year

Chinese language. Prescribed texts and language laboratory material.

13 hours a week of lectures and tutorials.

Chinese studies.

1 hour a week.

Introduction to the study of pre-modern Chinese history and culture, with reference to selected topics from the neolithic period to the eighteenth century.

Chinese Studies 2

Second Year

Chinese language and literature. Prescribed texts and language laboratory material.

14 hours a week of lectures and tutorials.

Chinese studies.

2 hours a week.

(a) Chinese institutions: the social, political and economic institutions of traditional and modern China.

(b) The history of modern China.

Chinese Studies 3

Third Year

Chinese language, literature and documents. Prescribed texts and language laboratory material.

11 hours a week of lectures and tutorials.

Chinese studies (political and economic institutions, modern history).

2 hours a week.

(a) Chinese institutions: as in the second-year course, but including the reading of selected Chinese material and seminar discussion.

(b) Rebellion and revolution in Chinese history. This course examines, with reference to selected original documents, rebellious and revolutionary movements, from late Ch'in onwards, seen in relation to the social structure.

The economy of China

A course given *only* for students taking the economics option in the Chinese Studies scheme. It covers the economic developments in China since 1949, and is examined separately by one paper.

Chinese Studies 4

Fourth Year

Courses on Chinese language, literature and documents.

Prescribed texts and language laboratory material.

10 hours a week of lectures and tutorials.

EXAMINATION: 5 papers and an oral examination.

Classics

For the degree of Bachelor of Arts

Greek prescribed genres:
Epic: selected books of Homer, Hesiod and Apollonius of Rhodes
Lyric and elegiac: selected odes of Pindar and Bacchylides; selected texts of early lyric and elegiac verse
Drama: selected plays of Aeschylus, Sophocles, Euripides and Aristophanes
Hellenistic Poetry: selected texts of Theocritus and other contemporary poets
Historians: selected portions of the Greek historians (especially Herodotus and Thucydides)
Orators: selected speeches of Demosthenes and other Greek orators
Philosophers: selected works of Plato and Aristotle.

Latin prescribed books for June 1972
Plautus, *Pseudolus*
Terence, *Adelphi*
Lucretius *V*
Catullus (ed. Simpson, Macmillan)
Cicero, *pro Sulla, Philippic II, Somnium Scipionis, Letters to Atticus II*
Livy, Books I, XXI.
Virgil, *Eclogues; Georgics I; Aeneid II, IV, VI, XII*
Horace, *Odes I, III; Epistles I*
Ovid, *Metamorphoses* I (ed. Lee, Pitt Press); *Amores* (selections)
Seneca, Selected *Letters* (ed. Summers, Macmillan)
Lucan, Book VII
Juvenal, 1, 3, 10, 13
Tacitus, *Annals I* (ed. Miller, Methuen), *XIV* (ed. Woodcock, Methuen)
Pliny, *Fifty Letters* (ed. Sherwin-White, Oxford University Press)
Martial, *Selections*

Education

Courses of study at present organised by the Department of Education:

ONE-YEAR COURSE

The Graduate Certificate in Education

This course is open to graduates of the University of Leeds and of other approved universities.

The syllabus is set out in full in the regulations prescribing schemes of study and examinations for diplomas and certificates on pages 141-2.

Candidates who are accepted for this course are eligible to apply for financial assistance under the Department of Education and Science regulations for the training of teachers. Further information about these grants may be obtained from the head of the Department of Education.

Department of Education and Science Regulations for recognised students taking the one-year course

Candidates before being accepted are required by the Regulations of the Department of Education and Science to be examined by a medical officer approved by the Department, and can only be admitted if they satisfy him as to their health and physical capacity for teaching. Candidates must be ordinarily resident in the United Kingdom, unless this condition is specially waived by the Department of Education and Science.

POSTGRADUATE COURSES FOR HIGHER DEGREES IN EDUCATION

Postgraduate candidates may be accepted for the degrees of Master of Arts in Education, Master of Education, Master of Philosophy and Doctor of Philosophy (q.v.). Candidates wishing to proceed to these degrees should write in the first instance to the head of the Department of Education.

English Literature

As a subsidiary subject for the degree of Bachelor of Arts

English G1A: ONE-YEAR COURSE
Lecture, Wednesday 11 to 12; tutorial, weekly, at times to be arranged.
Shakespeare and his language.
Practical criticism, Friday 11 to 12.
EXAMINATION: Shakespeare and his language (1 paper)
Practical criticism (1 paper).

English G2A and G3A: TWO-YEAR COURSE
Two hours weekly, one hour tutorial at times to be arranged.
Second year; lectures Monday and Tuesday, 11 to 12.
English literature 2: 17th and 18th centuries.
EXAMINATION: 1 paper.
Third year; lectures Tuesday and Thursday, 12 to 1.
English literature 3: 19th and 20th centuries.
EXAMINATION: 1 paper.

For the degree of Bachelor of Arts in two subjects

English C1A: ONE-YEAR COURSE
Lecture, Wednesday 11 to 12; tutorial, weekly at times to be arranged.
Renaissance poetry and drama.
EXAMINATION: 1 paper.

English C1: SCHEMES A AND B
Second year; lectures Monday and Tuesday, 11 to 12.
English literature 2: 17th and 18th centuries.
EXAMINATION: 1 paper.

English C2: SCHEME A
Second year; lectures Tuesday 10 to 11.
Shakespeare.
EXAMINATION: 1 paper.

English C3: SCHEMES A AND B
Third year; lectures Tuesday and Thursday, 12 to 1.
English literature 3: 19th and 20th centuries.
EXAMINATION: 1 paper.

English C4: SCHEME A
Third year.
Options: Milton *or* Another special author *or* Criticism *or* American literature *or* Commonwealth literature *or* The development of English 1620 to 1860*.
EXAMINATION: 1 paper.

For the degree of Bachelor of Arts in one subject

S.1A: English Literature
First year: Wednesday and Friday, 11 to 12, and a weekly tutorial class at times to be arranged.
Renaissance literature.
EXAMINATION: 2 papers.

English S.1: SCHEMES A, B, C AND D
Second and third years; Tuesday, 12 to 1.
English poetry from Skelton to the present day.
EXAMINATION: 1 paper.

* Not all these options are available to all combinations of subjects with English

English S.2: SCHEMES A, C AND D
Second and third years; Tuesday, 11 to 12 (Second year); Thursday, 12 to 1 (Third year)
The development of the English novel from Lyly to the present day.
EXAMINATION: 1 paper.

English S.3: SCHEME C
Third year; Monday, 12 to 1.
Drama
EXAMINATION: 1 paper.

English S.4: SCHEMES A AND C
Second year; Thursday, 3 to 4.
A special period.
The period for 1971-72 will be 1700-30.
EXAMINATION: 1 paper.

English S.5: SCHEMES A, B, C AND D
Third year; Tuesday, 10 to 11.
Shakespeare
EXAMINATION: 1 paper.

English S.6: SCHEMES A AND C
Second year; Thursday, 11 to 12.
Criticism
EXAMINATION: 1 paper.

English S.7: SCHEMES A, B, C AND D
Second and third years; at times to be arranged.
Tutorial classes on matter in the various courses.

English S.8: SCHEMES A AND C
Third year; at times to be arranged.
Seminar classes on one author
The author for 1971-72 will be W. B. Yeats.
EXAMINATION: 1 paper.

English S.9: SCHEMES A, C AND D
Third year; Wednesday, 10 to 11.
American literature
EXAMINATION: 1 paper.

English S.10: SCHEME C
Second year; Thursday, 2 to 3.
Milton
EXAMINATION: 1 paper.

English S.11: SCHEME C
General lecture, at times to be arranged.

English S.12: SCHEMES A, C AND D
Second year; Monday, 11 to 12.
Prose
EXAMINATION: 1 paper.

English S.13: SCHEME C
Second year; Monday to Friday, 3 to 4; Lecture, Tuesday, 10 to 11.
Theatre practice.

English S.14: SCHEMES A, C AND D
Third year; at times to be arranged.
Commonwealth literature.
EXAMINATION: 1 paper.

English Language and Medieval Literature

As a subsidiary subject for the degree of Bachelor of Arts
First year see English G1A (page C152).
Second and third years see English C2B and C3B below.

For the degree of Bachelor of Arts in two subjects

English C1B: ONE-YEAR COURSE
One hour a week, Monday 11 to 12, throughout the session and one hour in alternate weeks, Friday 11 to 12.
The development of English from the 12th century to the 17th century with special reference to the Renaissance period (*c.* 1550 to 1620).
EXAMINATION: 1 paper.

English C2B and C3B: TWO-YEAR COURSE
Second and third years; three hours a week at times to be arranged.
History of English, phonetics of modern English, Old and Middle English literature, and Chaucer.
FINAL EXAMINATION: 2 papers.

For the degree of Bachelor of Arts in one subject

S.1B English Language and Medieval Literature
Monday and Friday, 3 to 4; Thursday, 11 to 12.
The course will include an introductory study of the English language, of the literature and history of the Old English period and of Old Icelandic and medieval Welsh literature in translation.
EXAMINATION: 2 papers.

S.16 English Philology: SCHEMES A AND D
(as alternative to S.18 for Scheme A)
Second and third years, one hour a week at a time to be arranged.
EXAMINATION: 1 paper.

S.17 English Philology: SCHEME B
(i) Second year, Monday and Wednesday, 12 to 1.
(ii) Third year, Monday 2 to 4 (fortnightly)
EXAMINATION: 1 paper.

S.18 Old English Texts and Literature: SCHEMES A AND B
(i) Second year, Thursday, 10 to 11.
(ii) Third year, Friday, 10 to 11.
EXAMINATION: 1 paper.

S.19 Middle English Texts: SCHEMES A AND B
Second year, Friday, 9 to 10.

S.20 Middle English Literature Excluding Chaucer: SCHEMES A AND B
Second year, Monday, 3 to 4.

S.21 Middle English Literature Excluding Chaucer: SCHEMES C AND D
Second year, Friday, 12 to 1.
EXAMINATION: 1 paper.

S.22 Middle English Texts: SCHEMES A AND B
Third year, one hour a week at times to be arranged.
EXAMINATION: 1 paper.

S.23 Chaucer: SCHEMES A, B, C AND D
Third year, Wednesday, 11 to 12.
EXAMINATION: 1 paper.

S.24 Gothic and Germanic Philology: SCHEME B
Second year, Gothic, one hour a week, at a time to be arranged.
Third year, Germanic philology, one hour a week, at a time to be arranged.
EXAMINATION: 1 paper.

S.25 Old Icelandic: SCHEME B
Second year, Tuesday and Thursday, 9 to 10.
Third year, Tuesday and Thursday, 2 to 3.
EXAMINATION: 1 paper.

S.26 Modern Icelandic: SCHEME B
Second year, two hours a week, at times to be arranged.
Third year, one hour a week, at a time to be arranged.
EXAMINATION: 1 paper.

S.27 English Dialectology: SCHEMES B AND D
Second and third years, one hour a week, at a time to be arranged.
EXAMINATION: by supervised dissertation.

S.28 General and English Phonetics: SCHEME B
Second year, three hours a week, at times to be arranged.
Third year, one hour a week, at a time to be arranged.
EXAMINATION: 1 paper.

S.29 Anglo-Saxon Art and Archaeology: SCHEME B
Second year, Tuesday, 10 to 11.
Third year, Tuesday, 3 to 4.
EXAMINATION: 1 paper.

S.30 Medieval Welsh: SCHEME B
Second and third years, two hours a week, at times to be arranged.
EXAMINATION: 1 paper.

S.31 English Palaeography and Bibliography: SCHEME B
Second and third years, one hour a week, at a time to be arranged.
EXAMINATION: 1 paper.

S.32 Old Saxon and Old High German: SCHEME B
Second and third years, by arrangement with the German Department.
EXAMINATION: 1 paper.

S.33 Old French: SCHEME B
Second and third years, by arrangement with the French Department.
EXAMINATION: 1 paper.

S.34 Modern English Grammar and Lexicology: SCHEMES B AND D
Second and third years, two hours a week at times to be arranged.
EXAMINATION: By dissertation.

S.35 Comparative Philology: SCHEME B
Second and third years, two hours a week at times to be arranged.
EXAMINATION: 1 paper.

S.36 Folk Life Studies: SCHEMES B AND D
Second and third years, two hours a week at times to be arranged.
EXAMINATION: by supervised dissertation.

S.37 Essays and Discussions: SCHEMES A AND B
Second year, Old English literature, one hour a week at a time to be arranged.
Third year, Middle English literature, one hour a week at a time to be arranged.

S.38 Uses of Spoken English: SCHEMES A, C AND D
Second year, one hour a week at times to be arranged.
EXAMINATION: 1 paper.

S.39 English Language and Literature in the Renaissance: SCHEMES A, B, C AND D
Second year, one hour a week at a time to be arranged.
Third year, one hour a week (Scheme B only).
EXAMINATION: 1 paper.

S.40 English and Scottish Literature 1400 to 1590: SCHEMES A, B, C AND D
Second year, one hour a week at times to be arranged.
Third year, one hour a week (Scheme B only).
EXAMINATION: 1 paper.

Icelandic

As a subsidiary subject for the degree of Bachelor of Arts

ONE-YEAR COURSE

First year; 3 hours a week, at times to be arranged.
This course is an introduction to modern Icelandic, and includes grammar, prose composition, practice in speaking Icelandic and study of present-day conditions and institutions in Iceland.
EXAMINATION: 2 papers and an oral examination.

TWO-YEAR COURSE

Second year; 3 hours a week at times to be arranged.
Study of prescribed literary texts in modern Icelandic, Icelandic prose composition, practice in Icelandic conversation, Iceland in the 19th and 20th centuries.
Introduction to Old Icelandic including grammar, detailed study of selected texts and history and institutions of Iceland.
FINAL EXAMINATION: 3 papers and an oral examination.

Fine Art

For the degree of Bachelor of Arts in one subject

Candidates for the degree of Bachelor of Arts in fine art shall, in their first year, be required to take one approved subject.

FIRST YEAR

The first-year course of study in fine art is taken by all candidates for the degree of Bachelor of Arts in fine art and includes work in both practical and historical branches of the subject.

SECOND YEAR
The course of study in fine art is the same for candidates in scheme A, fine arts and scheme B, fine art with film, and includes studio work as prescribed by the head of Department and work in art history. The course of study in scheme C, which may be chosen, subject to the approval of the head of the Department, at the end of the first year of study, includes work in art history as for schemes A and B and the history of style based on the supervised study of local collections. Teaching is given in the City of Leeds Museum at Temple Newsam House.

THIRD YEAR
Candidates who have not already chosen scheme C select either scheme A or scheme B subject to the approval of the head of the Department, at the end of the second year of study.

FOURTH YEAR
Schemes A and B include art history and practical work as prescribed by the head of the Department; scheme C is devoted to history of style and museum methods. Scheme A includes theories and institutions of European art (1 lecture weekly); scheme B includes critical and historical study of film.

For the degree of Bachelor of Arts in two subjects

FIRST YEAR
English-Fine Art, Fine Art-Music, Fine Art-Philosophy, Fine Art-Spanish.
Lectures and tutorials at times to be arranged. See scheme A, First Year, p. C52, 1(a) and (b) only. 4 lectures or tutorials a week.

SECOND YEAR
See scheme A, Second Year, p. C53. (1), (2) and (3) only.

THIRD YEAR
See scheme A, Third Year, p. C53, (1) and (2) only; Scheme A ,Fourth Year, (1) only. A long essay or dissertation of 8,000-10,000 words is written on an approved subject which may relate to either or both of the two schemes of study.

As a subsidiary subject for the degree of Bachelor of Arts and for the degree of Bachelor of Arts in textile design

ONE-YEAR COURSE

Fine Art
First year; 3 lectures a week.
An introduction to the study of fine art. A conspectus of the history of art and architecture from the earliest times to 1300. An outline of European painting and sculpture from 1300 to the present day.

EXAMINATION: 1 written paper and an oral examination in which candidates will be required to examine and discuss selected original works.

TWO-YEAR COURSE

Fine Art
4 hours a week.
History of painting and sculpture; 1780 to the present day*.
History of architecture*.
History of fashion* (textile design students only).
A detailed study of two designated artists (not for textile design students).

FINAL EXAMINATION
The history of painting, sculpture and architecture (3 papers).
An oral examination.

* The second year of the scheme of study in fine art for the degree of Bachelor of Arts in textile design will consist of these subjects.

French

As a subsidiary subject for the degree of Bachelor of Arts

ONE-YEAR COURSE

First year; 3 hours a week.
Translation into French; translation into English; literature and institutions.
Prescribed texts*
Mansion, *Grammar of Present-Day French* (with exercises) (Harrap)
Alain-Fournier, *Le Grand Meaulnes* (Livre de Poche)
Sartre, *Les Mains sales* (Livre de Poche)
Camus, *La Peste* (Livre de Poche)
Ionesco, *Le Rhinocéros* (Gallimard)
Mauriac, *Thérèse Desqueyroux* (Livre de Poche)
EXAMINATION: 2 papers and an oral examination.

TWO-YEAR COURSE

Second and third years; 3 hours a week and conversation and practical classes.
Translation into French; translation into English; essay in French; phonetics; literature.
Prescribed texts*

SECOND YEAR

Mansion, *Grammar of Present-Day French* (with exercises) (Harrap)
Racine, *Athalie* (Cl. Larousse)
Corneille, *Polyeucte* (Cl. Larousse)
Molière, *Le Tartuffe* (Cl. Larousse)
Balzac, *Illusions perdues* (Garnier)

THIRD YEAR

Mansion, *Grammar of Present-Day French* (with exercises) (Harrap)
Flaubert, *Madame Bovary* (Cl. Garnier)
Ireson, *Manual of French Composition for Advanced Students* (Harrap)
Zola, *Germinal* (Livre de Poche)
Giraudoux, *Electre* (Livre de Poche)
Montherlant, *Les Célibataires* (Livre de Poche)
Malraux, *La Voie royale* (Livre de Poche)
} for subsidiary students only
Voltaire, *Lettres philosophiques* (Blackwell)
Prévost, *Manon Lescaut* (Livre de Poche)
Beaumarchais, *Le Barbier de Séville* (Cl. Larousse).

FINAL EXAMINATION

Second year, 2 papers.
Third year, 3½ papers and an oral examination.
The attention of candidates who offer French as a three-year subject for a one-subject degree is drawn to the regulation regarding the examination in the second year. See page C61.

For the degree of Bachelor of Arts in two subjects

FIRST YEAR

First year; at times to be arranged.
Translation into French; translation into English; literature and institutions.
EXAMINATION: 2 papers and an oral examination.

For prescribed texts, see above under French as a Subsidiary subject—One-year course, and French for B.A. in French, in modern languages, and in French and Latin—First year, page C160.

*These lists are subject to revision. Revised lists, with additional suggestions for reading, will be sent to intending students on application in September.

SECOND YEAR
(With Arabic, English scheme A, Greek civilisation, Hebrew, history scheme A, management studies, philosophy, Portuguese scheme A, religious studies scheme A, theology scheme A).
Second year; at times to be arranged.
Translation into French; translation into English; *explication de textes* (*not* for French and management studies); (for French and management studies *only:* conference précis-writing); (for French and Arabic and French and Hebrew *only:* stylistics); eighteenth-century French thought; nineteenth-century French novel; (for French and philosophy *only;* additional course: French thought of the seventeenth century); (for French and management studies *only;* in place of nineteenth-century French novel: seventeenth-century French literature).
EXAMINATION: ½ paper; *except* French and management studies: 1 paper.
French and history: no Part I examination.
For prescribed texts, see page C160 under French for B.A. in French, in modern languages, and in French and Latin second year and first year.

(With English scheme B, history scheme B, Portuguese scheme B, religious studies scheme B, theology scheme B)
Second year; at times to be arranged.
Translation into French; translation into English; *explication de textes;* Old French; seventeenth-century French literature (for French and English, French and history, French and Portuguese); eighteenth-century French thought (for French and religious studies, French and theology).
EXAMINATION: ½ paper; *except* French and history: no Part I examination.
For prescribed texts, see page C160 under French for B.A. in French, in modern languages, and in French and Latin, second year and first year.

THIRD YEAR
(With Arabic, English scheme A, Greek civilisation, Hebrew, history scheme A, management studies, philosophy, Portuguese scheme A, religious studies scheme A, theology scheme A)
Third year; at times to be arranged.
Translation into French; translation into English; (for French and management studies *only:* conference précis-writing); sixteenth-century French literature; nineteenth-century French poetry; special subject (normally a free choice, but: seventeenth-century French literature compulsory for French and English, French and history, French and religious studies, French and theology; period of French thought compulsory for French and philosophy); (for French and philosophy *only;* in place of sixteenth-century French literature: French history and institutions); (for French and management studies *only;* in place of sixteenth-century French literature and nineteenth-century French poetry: nineteenth-century French novel; and contemporary French history and institutions).
EXAMINATION: 4 papers and an oral examination;
except French and history: 4½ papers and an oral examination.
French and management studies: 3½ papers and an oral examination.
For prescribed texts, see pages C160-4 (under French for B.A. in French, in modern languages, and in French and Latin, final year and second year).

(With English scheme B, history scheme B, Portuguese scheme B, religious studies scheme B, theology scheme B)
Third year; at times to be arranged.
Translation into French; translation into English; sixteenth-century French literature; Medieval French literature; special subject.
EXAMINATION: 4 papers and an oral examination;
except French and history: 4½ papers and an oral examination.
For prescribed texts, see pages C160-4 (under French for B.A. in French, in modern languages, and in French and Latin, final year and second year).

For the degree of Bachelor of Arts in French, in modern languages, and in French and Latin

FIRST YEAR

First year; at times to be arranged.

French language and literature (translation into French; translation into English; phonetics and Old French; *general linguistics and Romance philology, *French linguistics, history and structure of the French language, French literature and *thought of the seventeenth century, *twentieth-century French literature; *French history and institutions.

EXAMINATION: 6 papers and an oral examination (for French).
4 papers and an oral examination (for modern languages and French and Latin).

Prescribed texts†

FIRST YEAR

Larousse, *Petit Larousse* (latest ed.)
Mansion, *Grammar of Present-Day French* (with exercises) (Harrap)

Romance and General Linguistics

*S. Potter, *Modern Linguistics* (Deutsch)
or *A. Martinet, *Elements de Linguistique Generale* (A. Colin)

Old French and History of the Language

G. Raynaud de Lage, *Introduction à l'ancien français* (latest ed., S.E.D.E.S.)
R. L. Wagner, *Textes d'Etudes* (*842-1490* A.D.) (Droz)

Seventeenth-century thought

*Descartes, *Discours de la méthode* (ed. Scolaire, Vrin)
*Pascal, *Pensées* (Coll. Livre de Vie, Seuil)

Seventeenth-century literature

La Fontaine, *Fables choisies* (Cl. Larousse)
Corneille, *Polyeucte* (Cl. Larousse)
Racine, *Phèdre* (Cl. Larousse)
Molière, *Le Tartuffe* (Cl. Larousse)
Mme. de la Fayette, *La Princesse de Clèves* (Livre de Poche)

Twentieth-century literature

*Colette: *Le Blé en Herbe* (Garnier/Flammarion—paperback)
*Malraux, *La Condition Humaine* (Livre de Poche)
*Sartre, *La Nausée*, *Les Mouches*, *Huis Clos* (Livre de Poche)
*Ionesco, *Les Chaises* (Théâtre I, Gallimard)

History

*Arondel, Le Goff and Rudel, *Du Moyen Age aux temps modernes* (Coll. Louis Girard, Bordas)

SECOND YEAR

Second year; at times to be arranged.
Translation into French; translation into English; *explication de textes;* medieval French literature; stylistics; *French institutions; eighteenth-century French thought; nineteenth-century French novel; *one special subject to be chosen from the following:
(a) Pre-renaissance literature

* These texts are prescribed for students reading French only and not for those reading modern languages and literatures or French and Latin.
† These lists are subject to revision. Revised lists, with additional suggestions for reading, will be sent to intending students on application in September.

(b) Anglo-French relations
(c) 17th-century literature
(d) 17th and 18th-century moralists
(e) 18th-century drama
(f) Pre-romantic literature
(g) Romantic drama
(h) Phonology and morphology
(i) Semantics
(j) A period of French history

EXAMINATION: 1½ papers (for French).
1 paper (for French and Latin).

Prescribed texts*

Mansion, *Grammar of Present-Day French* (with exercises) (Harrap)
Larousse, *Petit Larousse* (latest ed.)

Stylistics
Cressot, *Le Style et ses techniques* (P.U.F.)
or Marouzeau, *Précis de stylistique française* (latest ed., Masson)
Guiraud, *La Stylistique* (Que sais-je? P.U.F.)

Medieval French literature
G. Raynaud de Lage, *Introduction à l'ancien français* (latest ed., S.E.D.E.S.)
Le Charroi de Nîmes, ed. Perrier (C.F.M.A., Champion)
Aucassin et Nicolette, ed. Roques (C.F.M.A., Champion)

History
†Girard, Bouillon, Tudesq and Rudel, *Le Temps des révolutions* (Bordas)

Eighteenth-century thought
Voltaire, *Lettres Philosophiques* (Blackwell)
Romans et contes (Garnier) containing *Micromégas* and *Candide*
Diderot, *Oeuvres philosophiques* (Garnier) containing *Entretien d'un philosophe avec la Maréchale de ****, *Entretien d'un père *** Supplément au voyage ****
Rousseau, *Du Contrat social* (Cl. du Peuple: Ed. Sociales)

Nineteenth-century novel
Balzac, *La Cousine Bette* (Garnier)
Stendhal, *Le Rouge et le noir* (Garnier)
Flaubert, *Madame Bovary* (Garnier)
Zola, *Germinal* (Livre de Poche)

†*Special subjects*

Pre-renaissance literature
Villon, *Oeuvres* (C.F.M.A., Champion)
Les Quinze Joies de mariage, ed. Rychner (T.L.F., Droz)
La Farce de Maistre Pierre Pathelin, ed. Pickford (Bordas/Harrap)

Seventeenth-century literature
Racine, *Andromaque*, *Britannicus*, *Bajazet*, *Mithridate*, *Athalie* — All Cl. Larousse

• These lists are subject to revision. Revised lists, for each year, with additional suggestions for reading, will be sent to intending students on application in September.
† These texts are prescribed for students reading French only and not for those reading modern languages and literatures or French and Latin.

Seventeenth- and eighteenth-century moralists

La Rochefoucauld, *Maximes et réflexions* (Livre de Poche)
La Bruyère, *Les Caractères* (Livre de Poche)
Vauvenargues, *Réflexions et maximes* (Livre de Poche)
Chamfort, *Maximes et pensées* (Livre de Poche)

Eighteenth-century drama

Marivaux, *Le Jeu de l'amour et du hasard* (Cl. Larousse)
Lesage, *Turcaret* (Cl. Larousse)
Regnard, *Le Legateur universel* (Cl. Larousse)
Beaumarchais, *Le Mariage de Figaro*, *Le Barbier de Seville* (in *Théâtre*, Garnier)
Sedaine, *Le Philosophe sans le savoir* (Cl. Larousse)

Pre-romantic literature

Chénier, *Poems* (ed. Scarfe, Blackwell)
Mme. de Stael, *De la Littérature: de l'Allemagne* (Cl. Larousse)
Constant, *Adolphe* (M.U.P. or Garnier)

Romantic drama

Musset, *Lorenzaccio* (M.U.P.), *On ne badine pas avec l'amour* (Cl. Larousse)
Hugo, *Ruy Blas* (Cl. Larousse)
Préface de Cromwell (Cl. Larousse)
Stendhal, *Racine et Shakespeare* (Cl. Larousse)
Vigny, *Chatterton* (Cl. Larousse)

Semantics

Guiraud, *La Sémantique* (Que sais-je? P.U.F.)
Ullmann, *Semantics: An Introduction to the Science of Meaning* (Blackwell)
Mitterand, *Les Mots français* (Que sais-je? P.U.F.)

FINAL YEAR

Final year; at times to be arranged.
Translation into French; translation into English; **explication de textes;*history and structure of the French language; *French linguistics; *French institutions; sixteenth-century French literature; French poetry in the latter half of the nineteenth century; one special subject to be chosen from the following:

(a) Medieval literature
(b) Renaissance satire
(c) 17th-century literature
(d) 17th-century comedy
(e) 18th-century literature
(f) 18th-century novel
(g) 19th-century thinkers
(h) 20th-century drama
(i) 20th-century literature
(j) 20th-century novel
(k) 20th-century poetry
(l) 20th-century thinkers
(m) Provençal
(n) A period in the history of French art
(o) Phonetics
(p) History of French science

*Not taken by students reading Modern Languages and French and Latin.

EXAMINATION: 7 papers and an oral examination (for French).
5 papers and an oral examination (for Modern Languages).
4 papers and an oral examination (for French and Latin).

Prescribed texts*

Ireson, *Manual of French Prose Composition for Advanced Students* (Harrap)
Larousse, *Petit Larousse* (latest ed.)

History of the Language

Foulet, *Petit Syntaxe de l'Ancien Français* (C.F.M.A., Champion)

History and Institutions

†Duverger, *La Cinquième République* (P.U.F.)

Sixteenth-century Literature

Rabelais, *Gargantua* (Ed. de Cluny or Livre de Poche)
Montaigne, *Selected Essays* (ed. Tilley-Boase, M.U.P.)
Du Bellay, *Les Regrets* (ed. Screech) (T.L.F., Droz)

Nineteenth-century Poetry

Hugo, *Les Contemplations* (Sélections Litt., Bordas)
Les Châtiments (Cl. Larousse)
Verlaine, *Fêtes galantes, etc.* (M.U.P.)
Baudelaire, *Les Fleurs du mal* (Garnier)
Rimbaud, *Oeuvres* (Garnier)

Special Subjects

Medieval Literature

Chrétien de Troyes, *Le Chevallier de la charette* (ed. Roques, C.F.M.A., Champion)
Le Roman de Perceval (ed. W. Roach, T.L.F., Droz, Geneva)
ed. Pauphilet, *La Queste del Saint Graal* (C.F.M.A., Champion)
ed. Frappier, *La Mort le Roi Artu* (T.L.F., Droz, Geneva)

Renaissance Satire

Des Periers, *Cymbalum Mundi* (ed. P. Nurse, Manchester U.P.)
Calvin, *Excuse à Messieurs les Nicodémites*
Rabelais, *Le Quart Livre* (chap. 29-62) ed. Plattard (Belles Lettres)
Du Bellay, *La Vieille Courtisane*
Hotman, *Epistre envoiée au tygre*
Ronsard, *Discours des misères de ce temps* (ed. Baillou, Belles Lettres)

Seventeenth-century literature

Pascal, *Oeuvres complètes* (ed. l'Intégrale, Seuil)

Seventeenth-century comedy

Molière, *L'Ecole des femmes*, *Dom Juan*, *Le Misanthrope*, *Le Médecin malgré lui*, *Le Bourgeois Gentilhomme*, *Les Femmes savantes* — Cl. Larousse

*These lists are subject to revision. Revised lists, for each year, with additional suggestions for reading, will be sent to intending students on application in September.
†These texts are prescribed for students reading French only and not for those reading modern languages and literatures or French and Latin.

Eighteenth-century literature
Montesquieu, *Lettres Persanes*, *L'Esprit de Lois* (Cl. Larousse)
Voltaire, *Dictionnaire philosophique* (Garnier/Flammarion)
Siècle de Louis XIV (Dix/Dix-Huit), *Zaïre* (Cl. Larousse)

Eighteenth-century novel
Prévost, *Manon Lescaut* (Livre de Poche)
Marivaux, *Le Paysan parvenu* (Garnier/Flammarion)
Diderot, *Jacques le fataliste*, *Le Neveu de Rameau*, in *Oeuvres romanesques* (Cl. Garnier)
Laclos, *Les Liaisons dangereuses* (Cl. Garnier)

Nineteenth-century thinkers
Lamennais, *Paroles d'un croyant* (Colin)
A. de Tocqueville, *L'Ancien Régime et la Révolution* (Coll. Idées, Gallimard)
Comte, *Oeuvres choisies* (intro. by H. Gouhier, Aubier)
Renan, *L'Avenir de la science* (Cl. Larousse)

Twentieth-century drama
Claudel, *Partage de Midi* (Livre de Poche)
Giraudoux, *La Guerre de Troie n'aura pas lieu* (Livre de Poche)
Intermezzo (Livre de Poche)
Anouilh, *Colombe* (Livre de Poche)
Pauvre Bitos (ed. Howarth, Harrap)
Beckett, *En Attendant Godot* (ed. Duckworth, Harrap)
Fin de Partie (Eds. de Minuit)

Twentieth-century literature
Montherlant, *Port-Royal* (Livre de Poche)
Le Maître de Santiago (Harrap)
Les Bestiaires (Livre de Poche)
Le Chaos et la Nuit (Livre de Poche)
Le Démon du Bien (Livre de Poche)
La Rose de Sable (Gallimard, or Livre de Poche if available)

Twentieth-century novel
Proust, *Du côté de chez Swann* (Livre de Poche)
Sartre, *La Nausée* (Livre de Poche)
Beckett, *Molloy* (Eds. de Minuit)
Robbe-Grillet, *La Jalousie* (Eds. de Minuit)

Twentieth-century poetry
Apollinaire, *Alcools* (Coll. Poésie, Gallimard)
Calligrammes (Coll. Poésie, Gallimard)
Saint-John Perse, *Anabase* (Coll. Poésie, Gallimard)

Twentieth-century thinkers
Sartre, *Baudelaire* (Coll. Idées, Gallimard)
Les Mots (Gallimard)
Camus, *Le Mythe de Sisyphe* (Coll. Idées, Gallimard), *L'Etranger* (Livre de Poche)

History of French art
Blunt, *Art and Architecture in France 1500-1700* (Pelican History of Art)

Provençal
Bec, *La Langue Occitane* (Que Sais-je? P.U.F.)
Jeanroy (ed.) *Les Chansons de Guillaume IX, duc d'Aquitaine* (CFMA)
Mistral, *Mirèio* (Bib. Charpentier, Eds. Fasquelle 1960)

Geography

As a subsidiary subject for the degree of Bachelor of Arts

ONE-YEAR COURSE

Environmental physiography 1 (1 lecture a week).
Evolution of settlement and land use (1 lecture a week).
Cartography and quantitative methods (3 hours a week).
EXAMINATION: 3 papers.

TWO-YEAR COURSE

First Year

Environmental physiography 2 (2 hours a week).
Migration and regional development (1 hour a week).
Practical work (3 hours a week).

Second Year

Geography of two selected areas (2 hours a week).
In the Department of Geography tutorial and essay work is required in all three years and candidates will be required to attend field courses, one of which may be held in a vacation period. Field work will be tested in the examinations.

FINAL EXAMINATION: 3 papers covering all the subjects taken in the two-year course.
For courses leading to the degree of Bachelor of Arts in geography, see prospectus *Faculty of Economic and Social Studies* pages E59-63.

German

As a subsidiary subject for the degree of Bachelor of Arts

ONE-YEAR COURSE

Lectures; Tuesday, 11 to 12 and 3 to 4, and Friday, 2 to 3.
Practical class; Monday, 11 to 12 *or* Wednesday, 10 to 11 *or* a time to be arranged.
Prescribed texts, syntax and composition, together with practical work in German conversation.
Rilke, *Poems* (ed. McKay, O.U.P.)
Kafka, *Das Urteil und andere Erzählungen* (Fischer-Bücherei)
Mann, *Mario und der Zauberer* (ed. Witte, Nelson)
Brecht, *Der gute Mensch von Sezuan* (Suhrkamp)
A. Russon and L. J. Russon, *Advanced German Course* (Longmans)
EXAMINATION: 2 papers and an oral examination.

TWO-YEAR COURSE

Composition, phonetics, periods of literature and prescribed texts together with practical work in German conversation.

Second Year

Composition; Wednesday, 12 to 1.
German essay; times to be arranged.
Phonetics; Thursday, 2 to 3.
Texts and history of literature 1730 to 1832; Friday, 12 to 1.
Lessing, *Minna von Barnhelm* (Nelson)
Goethe, *Die Leiden des jungen Werthers; Iphigenie auf Tauris* (Reclam)
Tieck, *Der blonde Eckbert* and Brentano, *Geschichte vom braven Kasperl und dem schönen Annerl* (ed. Atkinson, Blackwell)
Prescribed texts; Monday, 12 to 1.
Goethe, *Faust I* and *Faust I Scene by Scene* (ed. Bruford, Macmillan)
Schiller, *Maria Stuart* (ed. Witte, Macmillan)

Third Year
Composition; Monday, 12 to 1.
German essay; times to be arranged.
Conversation; groups to be arranged.
Prescribed texts and history of literature from 1832; Monday, 4 to 5, Wednesday, 12 to 1.
Grillparzer, *König Ottokars Glück und Ende; Der arme Spielmann* (Reclam)
Mörike, *Mozart auf der Reise nach Prag* (Reclam)
Stifter, *Bunte Steine* (Goldmann)

FINAL EXAMINATION

No candidate shall be regarded as having satisfied the examiners unless he reaches an adequate standard in German prose composition and essay.
The attention of candidates who offer German as a three-year subsidiary subject for a one-subject degree is drawn to the regulations on page C73.
Literature and texts for examination in 1972
March (*second year*)
Texts and history of literature 1730 to 1832
Goethe, *Faust I*
Schiller, *Maria Stuart*
Lessing, *Minna von Barnhelm*
Goethe, *Die Leiden des jungen Werthers; Iphigenie auf Tauris*
Tieck, *Der blonde Eckbert*
Brentano, *Geschichte vom braven Kasperl und dem schönen Annerl*
June (*third year*)
Texts and history of literature from 1832
Grillparzer, *König Ottokars Glück und Ende; Der arme Spielmann*
Mörike, *Mozart auf der Reise nach Prag*
Stifter, *Bunte Steine*

For the degree of Bachelor of Arts in one subject or two subjects

First Year

1. Modern texts I; Monday, 12 to 1.
Schiller, *Die Räuber ein Trauerspiel* (ed. Magill, Blackwell)
Von deutscher Art und Kunst (ed. Purdie, O.U.P.)

2. Modern texts II; Tuesday 11 to 12 or other times to be arranged.
Kleist, *Prinz Friedrich von Homburg* (ed. Samuel, Harrap)
Tieck, *Der blonde Eckbert* (ed. Atkinson, Blackwell)
Raimund, *Der Alpenkönig und der Menschenfeind* (Reclam)
Hoffmann, *Das Fräulein von Scuderi* (Nelson)
Brentano, *Gedichte* (Goldmann)

3. Composition; Friday, 9 to 10 *or* a time to be arranged.
Fowler, Kenworthy and Würzl, *A Manual of German Prose Composition for Advanced Students* (Harrap)

4. Middle High German; Thursday, 4 to 5.
J. Wright, *A Middle High German Primer* (4th or later ed. revised Walshe; Clarendon Press)
Hartmann von Aue, *Der arme Heinrich* (ed. Bostock, Blackwell)

5. Conversation at times to be arranged.

6. Phonetics; Thursday, 2 to 3.

7. German essays at times to be arranged.

Courses 1 to 7 are approved for all students for the degree in German and in modern languages.

Courses 1, 2, 3, 5 and 7 are approved for all students in the two-subject schemes German and music, German and philosophy and German and theology.

In addition, the following courses are approved for students for the degree in German:

8. Introduction to German poetry and drama; Monday, 2 to 3.

9. German history and civilisation; Tuesday, 12 to 1.
   (a) Introduction to the Middle Ages
   (b) German history from the eighteenth-century.

Second Year

1. Composition; Wednesday, 11 to 12.

2. German and English essays at times to be arranged.

3. Conversation at times to be arranged.

4. Middle High German; Thursday, 12 to 1.
Walther von der Vogelweide, *Gedichte* (ed. Wapnewski, Fischer-Bücherei)
Der Nibelunge Nôt (ed. Langosch, Slg. Göschen)

5. Prescribed texts; Friday, 3 to 4.
Goethe, *Faust I* and *II* (Harrap)
Herder, *Über die neuere deutsche Literatur* (ed. Gillies, Blackwell)

Courses 1 to 5 are approved for all students for the degree in German and in modern languages.

In addition the following courses are approved for Scheme A in German and in modern languages:

6. Prescribed texts; Friday, 12 to 1.
Goethe, *Poems* (ed. Boyd, Blackwell)
Schiller, *Die Räuber ein Traverspiel* (ed. Magill, Blackwell)

7. 19th-century prescribed texts; Tuesday, 10 to 11.
Heine, *Atta Troll* (ed. Fairley, O.U.P.)
Büchner, *Werke* (D.T.V.)
Mörike, *Gedichte* (ed. Maurer, Duckworth)
Keller, *Leute von Seldwyla, I* (Goldmann)

8. Modern German prescribed texts; Tuesday, 12 to 1.
Nietzsche, *Jenseits von Gut und Böse* (Studienausgabe 3, Fischer)
Lyrik des expressionistischen Jahrzehnts (Sonderreihe dtv).

Courses 1, 2, 3, 5, 6, 7 and 8 above are approved for all students in the two-subject schemes German and music, German and philosophy and German and theology.

The following course is approved for Schemes A and B in German:

9. Early New High German; Tuesday, 4 to 5.
Johannes von Tepl, *Der Ackermann aus Böhmen* (ed. Walshe, Duckworth)
Luther, *Sendbrief von Dolmetschen* (ed. Bischoff, Niemeyer-Tübingen)
Sachs, *Eine Auswahl* (Reclam)

The following course is approved for Scheme A in German:

10. Additional modern texts; time to be arranged.
Rilke, *Duineser Elegien* (ed. Stahl, Blackwell)
Mann, *Der Zauberberg*

The following courses are approved for Scheme B in German and in modern languages:

11. Old High German; Tuesday, 10 to 11.
C. C. Barber, *An Old High German Reader* (Blackwell)

12. History of the German language; Monday, 11 to 12.

The following courses are approved for Scheme B in German:

13. Additional Middle High German texts; Monday, 3 to 4.
Minnesang vom Kürenberger bis Wolfram (ed. Wehrli, Altdt. Übungstexte, Francke)

14. Additional Germanic language; to be arranged in conjunction with the professor of English language and medieval English literature.

Third Year

1. Composition; Wednesday, 12 to 1.
2. German and English essays at times to be arranged.
3. Conversation at times to be arranged.
4. Middle High German; Thursday, 12 to 1.
Wolfram von Eschenbach, *Parzival* (ed. Jantzen and Kolb, Slg. Göschen)
Gottfried von Strassburg, *Tristan* (ed. Maurer, Slg. Göschen)
5. Prescribed texts; Friday, 12 to 1.
Lessing, *Nathan der Weise*
Herder, *Journal meiner Reise* (ed. Gillies, Blackwell)
Wackenroder and Tieck, *Herzensergiessungen eines kunstliebenden Klosterbruders* (ed. Gillies, Blackwell)

Courses 1 to 5 are approved for all students in German and in modern languages.

In addition the following courses are approved for Scheme A for the degree in German and in modern languages:

6. Prescribed texts; Friday, 3 to 4.
Deutsche Barocklyrik (ed. Cysarz, Reclam); *Penguin Book of German Verse*
Schiller, *Wallenstein; Über naive und sentimentalische Dichtung* (ed. Mainland, Blackwell)
7. 19th-century prescribed texts; Tuesday, 12 to 1.
Raabe, *Pfisters Mühle* (Duckworth)
Fontane, *Unwiederbringlich* (Goldmann)
Hauptmann, *Die Weber* (Harrap)
Schnitzler, *Leutnant Gustl* (C.U.P.)
8. Modern German literature and texts; Tuesday, 10 to 11.
Kafka, *Der Prozess; Das Urteil* (Fischer)
Brecht, *Mutter Courage*

Courses 1, 2, 3, 5, 6, 7 and 8 above are approved for all students in the two-subject schemes German and music, German and philosophy and German and theology.

The following courses are approved for Scheme A in German:

9. Goethe and Hölderlin; Tuesday, 4 to 5.
Goethe, *Die Leiden des jungen Werthers* (ed. Stahl, Blackwell); *Die Wahlverwandtschaften*
Hölderlin, *Selected Verse* (ed. Hamburger, Penguin)
10. Additional 19th-century texts: time to be arranged.
Nestroy, *Der böse Geist Lumpazivagabundus; Freiheit in Krähwinkel; Der Talisman* (all Reclam)
Grillparzer, *Die Ahnfrau; Medea; König Ottokars Glück und Ende; Ein Bruderzwist in Habsburg* (all Reclam)
Hofmannsthal, *Der Schwierige* (C.U.P.)
11. Special subjects at times to be arranged.
Either The grotesque in German literature *or* German literature since 1945 *or* Twentieth-century Christian authors in German literature.

The following courses are approved for Scheme B in German and in modern languages:

12. Modern texts; Tuesday, 10 to 11.
Mann, *Unordnung und frühes Leid; Mario und der Zauberer* (ed. Witte, Nelson)
Kafka, *Die Verwandlung* (Methuen)
Brecht, *Leben des Galilei*
Dürrenmatt, *Der Besuch der alten Dame; Die Physiker* (both Arche)
Frisch, *Herr Biedermann und die Brandstifter* (Suhrkamp)

13. Old High German; Tuesday, 9 to 10.
C. C. Barber, *An Old High German Reader* (selections)

14. History of the German language; Thursday, 10 to 11.

The following courses are approved for Scheme B in German:

15. Additional Middle High German texts; Monday, 3 to 4.
Neidhart von Reuental, *Lieder* (Reclam)
Wernher der Gartenaere, *Meier Helmbrecht* (ed. Gough, Blackwell)

16. Additional Germanic language; to be arranged in conjunction with the professor of English language and medieval English literature.

For the degree of Bachelor of Arts in German
Prescribed texts for examination in 1972

SCHEME A
Wolfram von Eschenbach, *Parzival* (ed. Jantzen and Kolb)
Der Nibelunge Nôt (ed. Langosch)
Walther von der Vogelweide, *Gedichte* (ed. Wapnewski)
Gottfried von Strassburg, *Tristan* (ed. Maurer)
Johannes von Tepl, *Der Ackermann aus Böhmen* (ed. Walshe)
Luther, *Sendbrief von Dolmetschen* (ed. Amburger-Stuart)
Sachs, *Eine Auswahl* (Reclam)
Deutsche Barocklyrik (Reclam)
Penguin Book of German Verse
Lessing, *Nathan der Weise*
Herder, *Reisejournal* (ed. Gillies); *Über die neuere deutsche Literatur* (ed. Gillies)
Goethe, *Poems* (ed. Boyd), *Werther* (ed. Stahl), *Faust I* and *II*, *Die Wahlverwandtschaften*
Schiller, *Wallenstein; Maria Stuart* (ed. Witte); *Über naive und sentimentalische Dichtung* (ed. Mainland)
Wackenroder and Tieck, *Herzensergiessungen eines kunstliebenden Klosterbruders* (ed. Gillies)
Hölderlin, *Selected Verse* (ed. Hamburger, Penguin)
Heine, *Atta Troll* (ed. Fairley)
Keller, *Die Leute von Seldwyla* I
Nestroy, *Der böse Geist Lumpazivagabundus; Freiheit in Krähwinkel; Der Talisman* (Reclam)
Grillparzer, *Die Ahnfrau; Medea; König Ottokars Glück und Ende; Ein Bruderzwist in Habsburg*
Mörike, *Gedichte* (ed. Maurer)
Büchner, *Werke* (DTV)
Fontane, *Unwiederbringlich*
Raabe, *Pfisters Mühle*
Schnitzler, *Leutnant Gustl*
Mann, *Der Zauberberg*
Hauptmann, *Die Weber* (ed. Boulby)
Nietzsche, *Jenseits von Gut und Böse*
Lyrik des expressionistischen Jahrzehnts (DTV)
Hofmannsthal, *Der Schwierige*

Rilke, *Duineser Elegien* (ed. Leishman)
Kafka, *Der Prozess; Das Urteil*
Brecht, *Mutter Courage*
Prescribed reading for special subjects

SCHEME B

Wright, *Grammar of the Gothic Language* (selections)
or E. V. Gordon, *An Introduction to Old Norse* (Clarendon Press) and other texts (to be announced)
Barber, *An Old High German Reader* (selections)
Minnesang vom Kürenberger bis Wolfram (ed. Wehrli)
Wolfram von Eschenbach, *Parzival* (ed. Jantzen and Kolb)
Der Nibelunge Nôt (ed. Langosch)
Walther von der Vogelweide, *Gedichte* (ed. Wapnewski)
Gottfried von Strassburg, *Tristan* (ed. Maurer)
Neidhart von Reuental, *Lieder* (Reclam)
Wernher der Gartenaere, *Meier Helmbrecht* (ed. Gough)
Johannes von Tepl, *Der Ackermann aus Böhmen* (ed. Walshe)
Luther, *Sendbrief von Dolmetschen* (ed. Amburger-Stuart)
Sachs, *Eine Auswahl* (Reclam)
Lessing, *Nathan der Weise*
Herder, *Reisejournal* (ed. Gillies); *Über die neuere deutsche Literatur* (ed. Gillies)
Goethe, *Faust I* and *II*
Wackenroder, *Herzensergiessungen* (ed. Gillies)
Mann, *Unordnung und frühes Leid; Mario und der Zauberer* (ed. Witte)
Kafka, *Die Verwandlung*
Brecht, *Leben des Galilei*
Dürrenmatt, *Der Besuch der alten Dame; Die Physiker*
Frisch, *Herr Biedermann und die Brandstifter*

For the degree of Bachelor of Arts in modern languages
Prescribed texts

SCHEME A

*Wolfram von Eschenbach, *Parzival* (ed. Jantzen and Kolb)
**Der Nibelunge Nôt* (ed. Langosch)
*Walther von der Vogelweide, *Gedichte* (ed. Wapnewski)
*Gottfried von Strassburg, *Tristan* (ed. Maurer)
Deutsche Barocklyrik (Reclam)
Penguin Book of German Verse
Lessing, *Nathan der Weise*
Herder, *Reisejournal* (ed. Gillies); *Über die neuere deutsche Literatur* (ed. Gillies)
Goethe, *Poems* (ed. Boyd), *Faust I* and *II*
Schiller, *Wallenstein; Maria Stuart* (ed. Witte); *Über naive und sentimentalische Dichtung* (ed. Mainland)
Wackenroder, *Herzensergiessungen* (ed. Gillies)
Heine, *Atta Troll* (ed. Fairley)
Büchner, *Werke* (DTV)
Mörike, *Gedichte* (ed. Maurer)
Keller, *Die Leute von Seldwyla I*
Fontane, *Unwiederbringlich*
Raabe, *Pfisters Mühle*
Schnitzler, *Leutnant Gustl*
Hauptmann, *Die Weber*

Nietzsche, *Jenseits von Gut und Böse*
Lyrik des expressionistischen Jahrzehnts (DTV)
Kafka, *Der Prozess; Das Urteil*
Brecht, *Mutter Courage*

Texts in this group, apart from those marked with an asterisk, are also prescribed for the examination in German and music, German and philosophy, and German and theology.

SCHEME B

Barber, *An Old High German Reader* (selections)
Wolfram von Eschenbach, *Parzival* (ed. Jantzen and Kolb)
Der Nibelunge Nôt (ed. Langosch)
Walther von der Vogelweide, *Gedichte* (ed. Wapnewski)
Gottfried von Strassburg, *Tristan* (ed. Maurer)
Lessing, *Nathan der Weise*
Herder, *Reisejournal* (ed. Gillies); *Über die neuere deutsche Literatur* (ed. Gillies)
Goethe, *Faust I* and *II*
Wackenroder, *Herzensergiessungen* (ed. Gillies)
Mann, *Unordnung und frühes Leid; Mario und der Zauberer*
Kafka, *Die Verwandlung*
Brecht, *Leben des Galilei*
Dürrenmatt, *Der Besuch der alten Dame; Die Physiker*
Frisch, *Herr Biedermann und die Brandstifter*

Elementary Course for Art Students

Two hours a week at times to be arranged.

This class is intended for arts students wishing to acquire a reading knowledge of German. It will be held only if a sufficient number wish to attend.

Elementary Course for Science Students

Particulars will be found in the prospectus *Faculties of Science and Applied Science*.

Greek

As a subsidiary subject for the degree of Bachelor of Arts

Greek: ONE-YEAR COURSE

Previous knowledge of Greek is not required for entry on this course.

First year; 3 hours of prepared and 1 hour of unprepared work weekly at times to be arranged. Study of the structure of the Greek language in its Classical form with translation of texts from Greek into English and from English into Greek.

EXAMINATION: 2 papers of 3 hours each.

Greek: TWO-YEAR COURSE

Second and third years; 3 hours of prepared and 1 of unprepared work weekly at times to be arranged.

Study of prescribed texts in Greek; translation of unprescribed Greek texts; study of Greek tragedy and epic, through the medium of English translations.

EXAMINATION: 3 papers of 3 hours each.

For the degree of Bachelor of Arts in one subject

Prose Composition
First, second and third years; tutorially.
EXAMINATION: 1 paper in the first and final years.

Unseen Translation
First, second and third years; tutorially.
EXAMINATION: 1 paper each year.

Greek Books, Scribes and Scholars
First or second year (half); 1 hour a week at a time to be arranged.

Greek Metre
First or second year (half); 1 hour fortnightly at a time to be arranged.

Greek Language
First year (half); 1 hour fortnightly at a time to be arranged.

***Orators**
First year (half); 2 hours a week at times to be arranged.
Study of prescribed texts.

***Epic**
First year (half); 2 hours a week at times to be arranged.
Study of prescribed texts.

***Drama 1**
First year (half); 2 hours a week at times to be arranged.
Study of prescribed texts with special attention to Sophocles and Euripides.

***Lyric and Elegiac**
Second year (half); 1 hour a week at times to be arranged.
Study of selected texts of early lyric and elegiac verse.

***Historians**
Second year (half); 2 hours a week at times to be arranged.
Study of prescribed texts.

***Drama 2**
Second year (half); 2 hours a week at times to be arranged.
Study of prescribed texts with special attention to Aeschylus and Aristophanes.

***Philosophers 1**
Second year (half); 2 hours a week at times to be arranged.
Study of prescribed works of Plato and Aristotle.

Philosophers 2
Third year (half); 2 hours a week at times to be arranged.
Study of Plato, *Republic*.

* The courses from Orators to Philosophers I inclusive will be given once only in each two-year period.

Hellenistic Poetry
Third year (half); 2 hours a week at times to be arranged.
Study of prescribed texts of Theocritus and other contemporary poets.

Pindar and Bacchylides
Third year (half); 2 hours a week at times to be arranged.
Study of prescribed odes of Pindar and Bacchylides.

Textual Criticism
Third year (half); 1 hour a week at a time to be arranged.
Study of a prescribed text with special attention to its transmission.

Courses in Greek history will be given by co-operation with the School of History; for details see under History, page C83.

Greek Civilisation

As a subsidiary subject for the degree of Bachelor of Arts

ONE-YEAR COURSE
First year: 3 hours weekly, at times to be arranged.
The diffusion of Greek language, literature and thought from the Bronze Age to the beginning of the 4th century B.C., with prescribed Greek texts in translation.
EXAMINATION: 2 papers of 3 hours each.

TWO-YEAR COURSE
Second and third year: 3 hours weekly at times to be arranged.
1. History of Greek drama (with prescribed texts in translation)
2. Greek art in the 5th and 4th centuries B.C.
3. Greek historical writing (with prescribed texts in translation)
4. Greek epic poetry (with prescribed texts in translation)

EXAMINATION: 3 papers of 3 hours each.

As a one-year subject for the degree of Bachelor of Arts in two subjects

COURSE REQUIREMENT
For admission to this course a pass at ordinary level in a language other than English is required. Students beginning Greek will receive three hours' tuition a week in Greek language; students with Greek will receive two hours' tuition a week.
First year; two hours lectures, one hour tutorial and two or three hours linguistic instruction a week.
The diffusion of Greek language, literature and thought from the Bronze Age to the beginning of the 4th century B.C., with prescribed Greek texts in translation.
Greek grammar, translation of prescribed texts and unseen translation.
EXAMINATION: 2 papers of 3 hours each.

For the degree of Bachelor of Arts in two subjects

ENGLISH-GREEK CIVILISATION, GREEK CIVILISATION-ARABIC, GREEK CIVILISATION-FRENCH, GREEK CIVILISATION-HEBREW, GREEK CIVILISATION-RELIGIOUS STUDIES, GREEK CIVILISATION-THEOLOGY.
First year; two hours lectures, one hour tutorial and two or three hours linguistic instruction a week.
The diffusion of Greek language, literature and thought from the Bronze Age to the beginning of the 4th century B.C., with prescribed Greek texts in translation.
Greek grammar, translation of prescribed texts and unseen translation.
EXAMINATION: 2 papers of 3 hours each.

Second and third years
1. History of Greek drama (with prescribed texts in translation)
2. Greek art in the 5th and 4th centuries B.C.
3. Greek historical writing (with prescribed texts in translation)
4. Greek epic poetry (with prescribed texts in translation)
5. Two selected general topics in the field of Greek literature, history, philosophy
6. Prescribed Greek texts.

EXAMINATION: 4 papers of 3 hours each.
Homer; Greek tragedy
Greek historical writing; Greek art
General paper
Translation from prescribed texts.

History

As a subsidiary subject for the degree of Bachelor of Arts and for two-subject degree schemes with history

Students reading history as a subsidiary subject may do so for one year or for three years. Those who do so for one year only take the first-year examination. Those reading history for three years take this examination at the end of the first year and the final examination at the end of the third year of their studies.

First-Year Examination

Two papers, selected with the approval of the chairman of the School of History from:
The Ancient Near East and Greece
Ancient Rome and the Roman world
Medieval Europe
Early modern Europe (to *c.* 1789)
The making of the modern world

The second and third-year syllabus and final examination for history as a three-year subsidiary subject will be determined in consultation with the head of the candidate's department.

Postgraduate Courses

The following postgraduate courses of lectures are offered in the School:
1. Western palaeography.
2. An introduction to historical criticism, bibliography and diplomatic I.
3. An introduction to historical criticism, bibliography and method II.

Italian

*As a subsidiary subject for the degree of Bachelor of Arts**

ONE-YEAR COURSE
No previous knowledge of Italian is required for this course.
Three hours a week and 1 practical period. Grammar, translation and composition, essay in Italian, prescribed texts.
D. Lennie and M. Grego, *Italian for You— a Practical Grammar* (Longmans)
G. Verga, *Pane Nero and Other Stories* (ed. D. M. White, M.U.P.)
A. Moravia, *Agostino* (Bompiani)

EXAMINATION: 2 papers and an oral examination.

* Subject to the approval of the Board of the Faculties of Arts, Economic and Social Studies and Law, candidates who are specially recommended by the head of the Department may be admitted in their first year to the second-year course of the three-year scheme and so proceed in their third year to take a selected course in Italian at a higher standard. The courses under this scheme are known as Italian Ix, IIx and IIIx.

TWO-YEAR COURSE

Second year; 3 hours a week and 1 practical period.
Grammar, translation and composition, essay in Italian, literature and prescribed texts.
Dante, *Inferno* (ed. N. Sapegno, La nuova Italia)
Leopardi, *Canti* (ed. Fubini, Loescher)
Verga, *I Malavoglia* (ed. Simioni, Mondadori, 'Gli Oscar')

Third year; 3 hours a week and 1 practical period.

Translation and composition, essay in Italian, literature and prescribed texts.
I. Svevo, *Senilità* (Dall'Oglio)
A. Moravia, *Gli Indifferenti* (Bompiani)
E. Vittorini, *Conversazione in Sicilia* (Einaudi)
Poeti del Novecento (ed. Spagnoletti, Mondadori)
E. Montale, *Le Occasioni* (Mondadori)
G. Ungaretti, *L'Allegria* (Mondadori)

EXAMINATIONS: 2 papers at the end of the second year; 3 papers and an oral examination at the end of the third year.

Candidates who offer Italian as a three-year subsidiary subject will normally be required to spend a period of at least one month in Italy or in some other Italian-speaking country during the long vacation of their first or second year, this period to include attendance at an approved course of study.

Candidates for the degree in textile design, textile management, fine art or music take the one-year course and the first year of the two-year course. The final examination will consist of two papers and an oral examination.

For the degree of Bachelor of Arts in one subject

Translation and composition, essay and conversation, history of the language, periods of Italian literature with special reference to selected texts, aspects of Italian civilisation, phonetics of Italian, special subjects, dissertation.

THREE-YEAR SCHEME

First Year

6 hours of lectures a week.

EXAMINATION: 5 papers and an oral examination.

Prescribed texts
Metastasio, *Didone abbandonata* (ed. Gervasoni, Signorelli), *Olimpiade* (ed. Robuschi, Pleion)
Goldoni, *La bottega del caffè* (ed. Lipparini, Signorelli), *Il teatro comico* (ed. Mangini,Barjes), *Pamela nubile* (ed. Levi, Signorelli), *Il campiello* (ed. Levi, Signorelli)
Foscolo, *Ultime Lettere di Jacopo Ortis* (ed. Gustarelli, Signorelli)
Manzoni, *I Promessi Sposi* (ed. Momigliano, Sansoni)
G. Verga, *Pane Nero and Other Stories* (ed. D. M. White, M.U.P.)
Leopardi, *Canti* (ed. Fubini, Loescher)
Poeti del Novecento (ed. Spagnoletti, Mondadori)
L. Pirandello, *Così è (se vi pare)* (Mondadori, 'Gli Oscar'), *Sei personaggi in cerca d'autore* (Mondadori, 'Gli Oscar')
A. Moravia, *Gli Indifferenti* (Bompiani)
C. Cassola, *La ragazza di Bube* (Mondadori, 'Gli Oscar')
A Short History of Italy (ed. Hearder and Waley, C.U.P.)

Second Year

8 hours of lectures a week.
Prescribed texts
Dante, *Inferno* (ed. N. Sapegno, La nuova Italia)

Petrarch, *Canzoniere* (ed. G. Contini, Einaudi)
Poliziano, *Stanze per la Giostra, L'Orfeo* (ed. Rho, Signorelli)
Machiavelli, *Il principe* (ed. Firpo, Einaudi), *La mandragola* (ed. Bonino, Einaudi)
Castiglione, *Il cortegiano* (ed. Rigillo, Signorelli)
Cellini, *Vita* (ed. Carrara, U.T.E.T.)

Third Year
9 hours of lectures a week.
Prescribed texts
Dante, *Vita Nuova* (ed. Casini, Sansoni), Selected *canti* from *Purgatorio* and *Paradiso* (ed. N. Sapegno, La nuova Italia, 2 vols.)
Petrarca, *Canzoniere* (ed. G. Contini, Einaudi), *Il mio segreto* (ed. Carrara, Sansoni)
Boccaccio, *Decameron* (ed. V. Branca, Le Monnier, 2 vols.), *Antologia delle opere minori volgari* (ed. G. Gigli, Sansoni)
Sacchetti, *Il trecentonovelle* (ed. Pernicone, Sansoni)
Ariosto, *Orlando Furioso* (ed. Zingarelli, Hoepli)
Tasso, *Gerusalemme Liberata* (ed. Rugani, Sansoni), *Aminta* (ed. Fassò, Sansoni)
Early Italian Texts (ed. Dionisotti-Grayson, Blackwell)
M. Vitale, *La questione della lingua* (Palumbo)

EXAMINATION: 8 papers and an oral examination, or 7 papers, a dissertation and an oral examination.

Special subjects
Two of the following:
Lyric Poetry of the Italian Renaissance
Galileo Galilei
The Enlightenment in Northern Italy
The works of Giacomo Leopardi
The works of Giovanni Verga
The modern Italian novel
One of the special subjects may be replaced by a dissertation on an approved subject.

FOUR-YEAR SCHEME

First Year
6 hours of lectures a week. Grammar, translation and composition, literature and prescribed texts, phonetics of Italian, essay and conversation.

EXAMINATION: 3 papers and an oral examination.
D. Lennie and M. Grego, *Italian for You—a Practical Grammar* (Longmans)
G. Verga, *Pane Nero and Other Stories* (ed D. M. White, M.U.P.)
A Moravia, *Agostino* (Bompiani)
C. Cassola, *La ragazza di Bube*
I. Silone, *Fontamara* (Mondadori, 'Gli Oscar')
G. Ungaretti, *L'Allegria* (Mondadori, 'Lo Specchio')

Second Year
As for the first year of the three-year scheme.

Third Year
As for the second year of the three-year scheme.

Fourth Year
As for the third year of the three-year scheme.

Latin

As a subsidiary subject for the degree of Bachelor of Arts

ONE-YEAR COURSE

First year; lectures Monday and Friday 10 to 11; tutorials *either* Thursday 10 to 11 and Friday 3 to 4 *or* Tuesday 11 to 12 and Wednesday 10 to 11.
Prescribed books; unprepared translation and language work.
Students are recommended to acquaint themselves with the outlines of Roman history and Latin literature.

EXAMINATION: 2 papers of 3 hours each.

TWO-YEAR COURSE

Second-year lectures and tutorial hour, Monday, Tuesday, Wednesday and Friday, 12 to 1.
Third-year lectures and tutorial hour, Monday and Friday, 3 to 4, Tuesday and Wednesday, 12 to 1.
Prescribed books; unseen translation and language work.

FINAL EXAMINATION: 3 papers of 3 hours each.

For the degree of Bachelor of Arts in one subject

FIRST-YEAR COURSE: CLASSICS, FRENCH-LATIN, LATIN

At times to be arranged.
Prescribed books, unseen translation, language work, Roman life and manners.

SECOND-YEAR COURSE: CLASSICS

Monday 12 to 1, Friday 11 to 12 and at times to be arranged.
Prescribed books, unseen translation, language work, special subject, Greek or Roman history, background lectures.

SECOND-YEAR COURSE: FRENCH-LATIN AND LATIN

Monday 12 to 1, Friday 11 to 12 and at times to be arranged.
Prescribed books, unseen translation, language work, special subject, additional prescribed books (for those taking Latin), background lectures.

THIRD-YEAR COURSE: CLASSICS

Monday 12 to 1, Friday 11 to 12 and at times to be arranged.
Prescribed books, unseen translation, language work, special subject, Roman or Greek history.

EXAMINATION: 6 or 6½ papers.

THIRD-YEAR COURSE: FRENCH-LATIN AND LATIN

Monday 12 to 1, Friday 11 to 12 and at times to be arranged.
Prescribed books, unseen translation, language work, additional prescribed books (for those taking Latin), special subject, Roman history (for those taking Latin), background lectures.
EXAMINATION: 9 papers (for those taking Latin), 6 papers (for those taking French-Latin).

For the degree of Bachelor of Arts in two subjects

ENGLISH-LATIN, HISTORY-LATIN, ITALIAN-LATIN, LATIN-SPANISH, LATIN-THEOLOGY

Lectures and tutorials at times to be arranged.

First year: 4 hours a week.

Latin language, including unprepared translation, Latin literature and prescribed texts, Roman civilisation.

The prescribed texts will be chosen to illustrate some of the following topics:
Latin rhetoric, historiography, biography, letter-writing, pastoral poetry, didactic poetry, lyric poetry.

Second and third years: 5-6 hours a week.

Latin language, including unprepared translation, Latin literature and prescribed texts and *either* two special subjects to be taken in consecutive years, chosen from the following:

(a) Latin tragedy and comedy
(b) Latin epic
(c) Latin pastoral poetry
(d) Latin satire
(e) An approved period or topic of Roman history
(f) An introduction to Graeco-Roman philosophy
(g) Some other approved subject, by arrangement

or (for those taking Latin-Spanish) a two-year course on the Romans and Spain.

Management Studies

For the degree of Bachelor of Arts in French and management studies

Management Studies C

Each of the lecture courses listed below will be supported by tutorials or discussion sections, meeting at times to be arranged.

Management Studies C1

Introduction to Industrial Management C1

One hour a week and discussion sections each meeting fortnightly for one hour at times to be arranged.

A systems approach to the internal operations of the firm and to the firm in its external environment. The firm as a technological system: interdependence; resource flows; input-output relationships; specialisation and yield; product functions; systems approach to markets. The firm as a resource-flow system; interdependence; liquidity; choice; exchanges with the outside environment. The firm as a decision-making and information-processing system: strategical and tactical decision-making in the firm; management decisions: by whom and by what means they are taken. Processes of planning and of control. The firm as a social system: organisational devices and their consequences; management as environmental control.

EXAMINATION: 1 paper of 3 hours (objective test).

BOOKS

H. I. Ansoff, *Corporate Strategy*
T. Levitt, *Innovation in Marketing*
G. Pask, *An Approach to Cybernetics*
J. Rose, *Automation*
H. Bierman, *et al., Management Decision-Making*
S. Beer, *Decision and Control*
S. Beer, *Cybernetics and Management*
A. Battersby, *Mathematics in Management*

Management Economics C1

One hour a week.

This course is designed to introduce students to some of the economic forces which influence the behaviour of business organisations. No previous knowledge of economics is assumed.

The course opens with an examination of the firm in economic theory (basic concepts); supply, demand and the price mechanism; elasticity; the law of diminishing returns, the economies of scale, specialisation; the margin; costs and revenue under perfect competition and monopoly.

The firm and the market are examined and special consideration is given to the relationship between marketing opportunities and product development. Advertising strategy and pricing procedures (marginal, full cost and incremental cost pricing) are also considered.

This leads to an examination of the characteristics of a typical business organisation: the different legal forms of business organisation; the firm as a co-ordinated administrative unit; the firm as a collection of resources; the profit motive; the role of enterprise; internal growth; the managerial team, risk and uncertainty; the direction of growth; diversifications; acquisition and merger; large and small firms.

The final phase of the course examines the economic environment within which the firm operates and considers some specific economic problems encountered by the manager.

EXAMINATION: 1 paper of 3 hours.

Management Studies C2

For students who have completed Management Studies C1.

Management Economics C2

One hour a week.

The purpose of this course is to examine the economic environment in which the firm operates and to examine some specific economic problems encountered by the manager. The firm and its markets. The firm and the economy. The firm and the efficient use of resources. The firm and technical change.

EXAMINATION: 1 paper of 3 hours.

Organisation Theory C2

One hour a week.

An introduction to the administrative structures and problems of the firm. Macro- and micro-theories of organisation: bureaucracy; classical administrative theory; behavioural theory; systems theory. These will be related to such organisational problems as the achievement of objectives, the maintenance of the internal system and adaptation to the external environment. Arising out of these problems are such issues as the location of authority and power; conflict; coalitions and decision-making; organisation planning; uncertainty absorption; strategy; growth and adaptation; the influence of external groups; trade unions; technology and structure.

EXAMINATION: 1 paper of 3 hours.

Management Studies C3

For students who have completed Management Studies C2.

The course consists of Social and industrial psychology C3 and *either* Quantitative methods in decision making C3 *or* Applied organisation studies C3.

Social and Industrial Psychology C3

One hour a week throughout the year.

The purpose of the course is to give students an appreciation of some of the human problems encountered in organisations. Behaviour of individuals: motivation; frustration; perception; communication (with particular reference to interviewing, selection tests and advertising). Behaviour of groups; norms and conformity; roles; influence of technology on social structure; leadership; authority. Theories of organisation: bureaucracy; the structural approach; the 'human relations' approach; the systems approach; change and stability. Syndicates will be formed in the class to study specialised areas.

EXAMINATION: 1 paper of 3 hours.

either

Quantitative Methods in Decision Making C3

One hour a week throughout the year.

The basic principles of decision-making within the firm will be investigated. The course will emphasize the mathematical techniques of operational research rather than its philosophy. Students taking this course should preferably have a good mathematical background. Topics include: simple 'modern' mathematics, elementary probability, the techniques of linear programming, theory of games, path and series analysis. To supplement the lectures tutorials will be arranged.

EXAMINATION: 1 paper of 3 hours.

BOOK
E. Duckworth, *Operational Research*

or

Applied Organisation Studies C3

One hour a week throughout the year.

The course will consider the classical, bureaucratic, human relations, task and socio-technical theories of organisations and examine their implications in practice. The origins and outcomes of more recent developments will be studied and this will involve learning to view organisations as open systems and socio-technical systems, for understanding psychological, sociological and cultural factors at work and their relationship to the cultural, technological, economic and political environment.

Experience and research in the use of the small group in industry as a method of facilitating social change will be studied. This will involve understanding resistance to change and the social consequences of change.

Teaching will be in small groups, by seminars and tutorials which will place considerable reliance on students' initiative.

EXAMINATION: 1 paper of 3 hours.

Students will be required to complete a study project in connection with one of the two courses which they take in Management Studies C3.

Mathematics

As a subsidiary subject for the degree of Bachelor of Arts

ONE-YEAR COURSES
Mathematics 1A or Mathematics 2A
Statistics 2A.

These courses may be offered as independent one-year subsidiary subjects. There are, however, the following mathematical prerequisites for Mathematics 2A and for Statistics 2A.

Mathematics 2A may be taken as a one-year course only if exemption has been obtained from Mathematics 1A. Exemption from Mathematics 1A may be granted on the basis of a good performance in mathematics as one subject or of a pass in mathematics as two subjects, at the advanced level in the General Certificate of Education examination, provided that mathematics included both pure and applied mathematics.

Candidates taking Statistics 2A as a one-year course must either be exempt from Mathematics 1A or have reached a satisfactory standard in pure mathematics at the advanced level in the General Certificate of Education examination.

TWO-YEAR COURSES
Mathematics 2A and Mathematics 3A
(only if Mathematics 1A has previously been taken as a one-year course)
or Mathematics 3A and Mathematics 4A
(only if Mathematics 2A has previously been taken as a one-year course).

For the degree of Bachelor of Arts in mathematics

The prescribed courses in mathematics for the four-year scheme of study for the degree of Bachelor of Arts in mathematics are Mathematics 1MM, 2MM and 3MM taken in successive years and followed by either Mathematics 4MMA or 4MMB. The prescribed courses in mathematics for the three-year scheme of study are Mathematics 2MM and 3MM, taken in successive years, and followed by either Mathematics 4MMA or 4MMB.

Courses

Mathematics 1A

Monday, Tuesday, Wednesday and Friday, 9 to 10.
Algebra, calculus, geometry, statics and dynamics.
EXAMINATION: 2 papers.

Mathematics 2A

Monday, Tuesday, Wednesday, Thursday and Friday, 12 to 1.
Algebra, analysis, calculus, geometry, vector algebra, statics, dynamics.
EXAMINATION: 2 papers.

Mathematics 3A

Wednesday and Friday, 10 to 11, Monday, Wednesday and Friday, 12 to 1.
Advanced calculus, real variable analysis, elementary complex variable analysis, vector analysis, dynamics, elementary hydrodynamics.
EXAMINATION: 2 papers.

Mathematics 4A

5 hours a week and tutorial classes at times to be arranged.
Selected topics in pure and applied mathematics.
EXAMINATION: 3 papers.

Statistics 2A

Monday, Tuesday, Wednesday and Friday, 9 to 10; *or* Monday, Tuesday, Friday, 10 to 11 and Thursday, 9 to 10.
Elementary treatment of statistical data; introduction to problems of sampling; probability theory.
EXAMINATION: 2 papers.

Mathematics 1MM

9 hours a week and tutorial classes at times to be arranged.
Algebra, analysis, calculus, geometry, statics, dynamics, statistics.
EXAMINATION: 4 papers.

Mathematics 2MM

15 hours a week and tutorial classes at times to be arranged.
Linear algebra, analysis, calculus, groups, differential equations, geometry, statics, dynamics, statistics, computational science, applications of mathematics.
EXAMINATION: 5 papers.

Mathematics 3MM

11 hours a week and tutorial classes at times to be arranged.
Algebra, topology, analysis, mathematical logic, potential theory, wave theory, dynamics, hydrodynamics, optimisation techniques.
EXAMINATION: 4 papers.

Mathematics 4MMA

11 hours a week and tutorial classes at times to be arranged.
Courses, some extending over the whole session and others over half the session, will be given on a number of topics. In any one year the list of topics may include real variable analysis, complex variable analysis, functional analysis, algebra, geometry, differential geometry, topology, mathematical logic, set theory, theory of numbers, electromagnetism, fluid mechanics, advanced dynamics and statistical mechanics, quantum theory, relativity, elasticity, waves, aircraft dynamics, astronomy, mathematical methods, numerical analysis, mathematical programming, statistics, stochastic processes.

Each candidate will take an approved selection of five courses extending over the whole session, or their equivalent, including at least one such course in pure mathematics and at least one such course in applied mathematics.

Each course will be examined. (In assessing the result of the final examination the candidate's performance in the Mathematics 3MM examination will be taken into account).

Mathematics 4MMB

10 hours a week and laboratory work and tutorial classes at times to be arranged.
Courses, some extending over the whole session and others over half the session, will be given on mathematical methods and on a number of topics in statistics and computational mathematics. These topics may include applied probability, stochastic processes, experimental design, numerical analysis, mathematical programming and other branches of operational research.

Each candidate will take an approved selection of five courses extending over the whole session, or their equivalent, including at least one such course in each of mathematical methods, statistics, and numerical analysis.

Each course will be examined. (In assessing the result of the final examination the candidate's performance in the Mathematics 3MM examination will be taken into account.)

Music

As a subsidiary subject for the degree of Bachelor of Arts, and for the degree of Bachelor of Arts in two subjects

First Year

Harmonisation of melodies and unfigured basses in not more than four parts
Counterpoint in two parts
History of music 700 to 1720
Practical training.

EXAMINATION: 2 papers.

As a subsidiary subject for the degree of Bachelor of Arts

Second Year

History of music 1720 to 1880
Stylistic studies and composition
Practical training.

EXAMINATION: 3 papers.

Third Year

History of music since 1880
Stylistic studies and composition
Practical training.

EXAMINATION: 3 papers.

For the degree of Bachelor of Arts in two subjects

Second Year

History of music 1720 to 1880
Special subject
Stylistic studies and composition
Acoustics * (or in third year)
Practical training.
EXAMINATION: 5 papers (including 1 paper on Acoustics)

Third Year

History of music since 1880
Special subject
Stylistic studies and composition
Practical training.
EXAMINATION: 4 papers.

For the degree of Bachelor of Arts in one subject

First Year

History of music 700 to 1720
Set works and listening
Harmony
Counterpoint
Practical training
In the second term candidates will present themselves for a test in keyboard proficiency.
EXAMINATION: 4 papers.

Second Year

History of music 1720 to 1880†
Special subject†
Stylistic studies
Composition
Acoustics*
Practical training.
EXAMINATION: 4 papers.

Third Year

History of music since 1880
Special subject
Orchestration
Stylistic studies
Composition
Musical palaeography

} candidates will take two of these subjects

In the third term candidates will present themselves for performance tests, either vocal or on an instrument of their choice, together with tests in score-reading and figured-bass.
EXAMINATION: 6 papers.

At the beginning of his third year each candidate must submit to the head of the Department of Music proposals for the subject and title of an essay of about 8,000 words which he is required to offer. This essay, which shall be his unaided work, must be submitted not later than 1 May in the year in which he takes the final examination.

* This course will be given in alternate sessions only and candidates are expected to take the examination at the end of the year in which they attend the course.

† The results of these two papers will count towards the final examination.

Philosophy

As a subsidiary subject for the degree of Bachelor of Arts and for the degree of Bachelor of Arts in one subject or two subjects

ONE-YEAR COURSE

Reason and argument
Thursday 9 to 10.
EXAMINATION: 1 paper.

Introduction to philosophy
Monday and Tuesday 4 to 5, and regular tutorials.
EXAMINATION: 1 paper.

TWO-YEAR COURSE

In each session one of the following subjects is chosen:

Ancient philosophy
History of modern philosophy (Descartes to Kant)
Ethics
Political and social philosophy
Philosophy of science
Formal logic, including symbolic logic
History of ideas in relation to English literature
Theory of criticism

In the third year all students study in addition a selected philosophical classic.
The choice of subjects is to be approved by the head of the Department.
Alternative philosophical subjects may be submitted with the approval of the head of the Department.
FINAL EXAMINATION: 3 papers. In the case of ancient philosophy or history of modern philosophy (Descartes to Kant), candidates will be examined by means of three essays to be submitted by the end of the long vacation following the end of the second year.

HISTORY AND PHILOSOPHY OF SCIENCE

As a subsidiary subject for the degree of Bachelor of Arts or for the degree of Bachelor of Arts in two subjects

History and Philosophy of Science: ONE-YEAR COURSE

First year; 3 hours a week and a fortnightly tutorial.
Development of European science
Monday 3 to 4, Friday 4 to 5.
EXAMINATION: 1 paper.

Philosophy of science
Monday 4 to 5.
EXAMINATION: 1 paper.

History of Science: TWO-YEAR COURSE

Special topics in the history of scientific thought
Second and third year; Monday and Tuesday, 5.15 to 6.30

History of science set book
Second and third year; 1 hour a week
EXAMINATION: 3 papers.
For courses in philosophy and the history of science for the degree of Bachelor of Science in two main subjects see the prospectus *Faculties of Science and Applied Science.*

Phonetics

As a subsidiary subject for the degree of Bachelor of Arts

ONE-YEAR COURSE

First year; Monday 3 to 4 and 4 to 5; Tuesday 4 to 5; and one hour a week of practical work at times to be arranged.

An introduction to speech sounds and their classification.

Ear training and practical performance: the recognition and articulation of speech sounds.

An introduction to phonological structure, with special reference to various forms of English.

Instrumental phonetics: introductory course.

EXAMINATION: 2 papers and an oral examination.

TWO-YEAR COURSE

Second year; 4 hours a week at times to be arranged.

Third year; 4 hours a week at times to be arranged, plus attendance at the staff seminar as prescribed.

Segments, utterances, and their phonetic features.

Ear training and practical performance, including work with native speakers on their own language.

The nature of linguistic models; phonemic, prosodic, distinctive feature and other phonological analyses. Synchronic and diachronic phonology and the mechanisms of change.

Acoustic and instrumental phonetics, with practical laboratory work.

A special study of the phonology and phonetics of English, one European language and one non-European language.

EXAMINATION: Second year—2 papers (1 departmental) and an oral examination.
Third year—3 papers and an oral examination

For the degree of Bachelor of Arts in English, scheme B

Phonetics

Second year; Monday 3 to 4 and 4 to 5; Tuesday 4 to 5; and one hour a week of practical work at times to be arranged.

General and English phonetics: theory and ear training as for phonetics subsidiary one-year course.

Third year; 2 hours a week at times to be arranged, and private listening period.

EXAMINATION: 1 paper and an oral examination.

For the degree of Bachelor of Arts in English, scheme D

Phonetics

Second year; Monday 3 to 4 and 4 to 5; Tuesday 4 to 5; and one hour a week of practical work at times to be arranged.

General and English phonetics: as for phonetics subsidiary one-year course.

EXAMINATION: 1 paper and an oral examination.

*For the degree of Bachelor of Arts in one subject or two subjects**

The Phonetics and Pronunciation of German

First year; Thursday 2 to 3.

Elementary phonetic theory, the phonetic structure of German, demonstration of German sounds, ear training, study of recordings of spoken German, phonetic transcription and dictation, practical instruction in the pronunciation of German.

Practical groups (optional) at times to be arranged.

Private listening period.

EXAMINATION: Half of 1 paper (1½ hours) and an oral examination.

* In the case of the two-subject degree, these arrangements apply to the degree of Bachelor of Arts in modern languages and literatures and French and Latin languages and literatures.

The Phonetics and Pronunciation of Russian

First year of the four-year scheme; Thursday 11 to 12.

Elementary phonetic theory, the phonetic structure of Russian, demonstration of Russian sounds, ear training, study of recordings of spoken Russian, practical instruction in the pronunciation of Russian. Practical groups (optional) at times to be arranged.

Private listening period.

EXAMINATION: 1 paper (2 hours) and an oral examination.

The Phonetics and Pronunciation of French

First year (B.A. in French) or second year (as part of French as a subsidiary subject, first half of session); Wednesday 9 to 10.

Elementary phonetic theory, the phonetic structure of French, demonstration of French sounds, ear training, study of recordings of spoken French, phonetic transcription and dictation, practical instruction in the pronunciation of French.

(Second half of session) Phonetic features of connected speech including intonation.

Practical groups (optional) at times to be arranged.

Private listening period.

EXAMINATION: 1 paper (French as main subject, 2 hours; subsidiary, 1½ hours) and an oral examination.

For the degree of Bachelor of Arts in one subject

The Phonetics of French

(Special subject Option)

Third year; Thursday 2 to 3.

Introduction to linguistic analysis; advanced phonetics and phonology of modern French, and the variations within it; phonetic structure of English and French; some reference to the different types of French, especially in Paris, and to the changes at present taking place in spoken French.

EXAMINATION: 1 paper (1½ hours) and an oral examination.

The Phonetics and Pronunciation of Italian

First year of the four-year scheme; Thursday 3 to 4.

Elementary phonetic theory, the phonetic structure of Italian, demonstration of Italian sounds, ear training, study of recordings of spoken Italian, practical instruction in the pronunciation of Italian.

Private listening period.

EXAMINATION: 1 paper (1½ hours) and an oral examination.

The Phonetics and Pronunciation of Spanish

First year; Tuesday 11 to 12.

Elementary phonetic theory, the phonetic structure of Spanish, demonstration of Spanish sounds, ear training, study of recordings of spoken Spanish, practical instruction in the pronunciation of Spanish.

Private listening period.

EXAMINATION: 1 paper (1½ hours) and an oral examination.

For the degree of Bachelor of Arts in Semitic languages and literatures and the postgraduate diploma in Semitic studies

The Phonetics and Pronunication of Arabic

First term; 1 hour a week, at times to be arranged.

Elementary phonetic theory, demonstration of Arabic sounds, and practical instruction in the pronunciation of Arabic.

Postgraduate diploma in English studies

The Phonetics and Pronunciation of English

Monday 11 to 12, 1 hour a week practical work, and private listening period at times to be arranged.

The mechanism of utterance, general elementary phonetic theory, the classification and description of speech sounds and prosodic features, phonetic transcription.

Practical work: ear training, phonetic dictation, and the study of recordings of spoken English including the student's own speech.

EXAMINATION: 1 paper and an oral examination.

M.A. in linguistics and English language teaching

Phonetics

3 hours a week at times to be arranged, and private listening period.

General phonetic theory, the phonetic and tonal structure of English, surveys of phonic substance of other languages, foreigners' difficulties, ear training and practical work.

EXAMINATION: 1 paper and an oral examination.

Portuguese

*As a subsidiary subject for the degree of Bachelor of Arts**

Students following a three-year course will be required to spend a period of one month/one term in Portugal and to attend there either a vacation course or university course which is approved by the head of department.

ONE-YEAR COURSE

This course is for students with no previous knowledge of the language.
First year; 3 hours a week and 1 period practical.
Grammar and translation, reading and commentary on prescribed texts.
Geography and history, one term only.

EXAMINATION: An oral examination and two papers as follows:

(a) Translation and essay
(b) Modern and contemporary literature.

TWO-YEAR COURSE

Second Year

3 hours a week and 1 practical period
Language and literature of earlier period.

EXAMINATION: 2 papers as follows:

(a) Translation and essay
(b) O Quinhentismo.

Third Year

3 hours a week and 1 practical period.
Translation, unseen composition and essays, literature.

EXAMINATION: An oral examination and three papers as follows:

(a) Translation
(b) Nineteenth-century Portuguese novel *or* Brazilian literature
(c) Essay.

* Subject to the approval of the Board of the Faculties of Arts, Economic and Social Studies and Law, candidates who are specially recommended by the head of the Department may be admitted in their first year to the second-year course of the three-year scheme and so proceed in their third year to take a selected course at a higher standard. The courses under this scheme are known as Portuguese Ix, IIx and IIIx.

Psychology

For the degree of Bachelor of Arts in two subjects (*philosophy and psychology*)

Psychology 1PH*

Monday, 10 to 11 and 3 to 4; Thursday, 2 to 3; experimental exercises and tutorials at times to be arranged.

An introduction to psychology; the study of human behaviour by empirical methods; biological foundations of psychology; personality and individual differences; statistics and the design of experiments.

EXAMINATION: 2 papers.

Psychology 2PH*

5 hours' lectures, laboratory work and tutorial classes at times to be arranged.

Perception; cognitive psychology; developmental psychology; individual differences and psychometrics; social psychology; the history and methodology of psychology.

Psychology 3PH*

5 hours' lectures; laboratory work and tutorial classes at times to be arranged.

Learning; cognitive psychology, thinking and language; social psychology; option.

EXAMINATION: 4 compulsory papers; 1 paper on option; assessment of practical work. An oral examination may also be required.

As a subsidiary subject for the degree of Bachelor of Arts

Psychology: ONE-YEAR COURSE

First Year

Monday 10 to 11 and 3 to 4; Thursday 2 to 3; experimental exercises and tutorials at times to be arranged.

An introduction to psychology; the study of human behaviour by empirical methods; biological foundations of psychology; personality and individual differences; statistics and the design of experiments.

EXAMINATION: 2 papers.

There are now no courses for the degree of Bachelor of Arts in psychology. See instead the prospectus *Faculty of Economic and Social Studies*, pages E36-37, for the degree of Bachelor of Arts in psychology and sociology, and also courses for the degree of Bachelor of Science in one main subject (psychology) in the prospectus *Faculties of Science and Applied Science*, pages G145-7.

Roman Civilisation

As a subsidiary subject for the degree of Bachelor of Arts in two subjects

COURSE REQUIREMENT

For admission to this course a pass in Latin at ordinary level *or* an equivalent reading knowledge of Latin is required.

First Year

Four hours lectures or tutorials a week at times to be arranged.

* These courses correspond with the courses Psychology 1J, 2K and 3K.

A survey of the history, literature and institutions of Rome from its foundation to the fifth century A.D. (for Roman Law, to the death of Justinian), with prescribed Latin texts in translation.

Prose and verse passages from Latin literature of the Republican Age for grammatical and literary analysis.

Selected Latin texts to illustrate the Augustan Age.

EXAMINATION: 2 papers of 3 hours each.

Prescribed books for June 1972 (selected portions of these books may be prescribed).
Plautus, *The Pot of Gold and Other Plays* (Penguin)
Cicero, *Selected Works* (Penguin)
Livy, *The Early History of Rome* (Penguin)
Virgil, trans. C. Day Lewis (Oxford Paperbacks)
Ovid, *Metamorphoses* (Penguin)
Seneca, *Four Tragedies*, *Octavia* and *Letters from a Stoic* (Penguin)
Pliny, *Letters* (Penguin)
Tacitus, *Histories* (Penguin)
M. Grant, *Roman Readings* (Pelican)
Roman Civilisation, ed. J.P.V.D. Balsdon (Penguin)

In addition, duplicated texts will be provided.

The course may not be taken in addition to either (*a*) any scheme of study which includes Latin, (*b*) Ancient Rome and the Roman world.

As a subsidiary subject for the degree of Bachelor of Arts

ONE-YEAR COURSE

First year; 2 lectures a week at times to be arranged; one tutorial a week.

A survey of the history, literature and institutions of Rome from its foundation to the fifth century A.D. (for Roman law, to the death of Justinian), with prescribed Latin texts in translation.

EXAMINATION: 2 papers of 3 hours each.

Prescribed books for June 1972: as above

The course may not be taken in addition to either (*a*) any scheme of study which includes Latin, (*b*) Ancient Rome and the Roman world.

Russian

As a subsidiary subject for the degree of Bachelor of Arts

ONE-YEAR COURSE

Russian language and a selection of prescribed texts from nineteenth- and twentieth-century literature, chosen according to availability.

EXAMINATION: 1 paper in Russian language and an oral examination.
1 paper in Russian literature.

TWO-YEAR COURSE

Second Year

Russian language and the development of the nineteenth-century Russian novel.

Third Year

Russian language and Russian history from 1856.

EXAMINATION: 1 paper in Russian language and an oral examination.
1 paper in Russian literature.
1 paper in Russian history.

In all years classes will total four hours per week.

Russian for Science Students

Courses in Russian for science students are provided by the department. Particulars will be found in the prospectus *Faculties of Science and Applied Science*.

Semitic Languages and Literatures

As a subsidiary subject for the degree of Bachelor of Arts

HEBREW

Previous knowledge of Hebrew is not required for entry on these courses.

ONE-YEAR COURSE

First year; 3 hours a week and one tutorial at times to be arranged.

Either

(a) Biblical Hebrew only (the grammar of biblical Hebrew and prescribed texts of the Hebrew Bible); Israelite history and archaeology.

or

(b) Contemporary Hebrew (grammar, prescribed texts; additional readings of periodical literature, and conversation).

EXAMINATION: Course A: 2 papers.
Course B: 2 papers and an oral.

TWO-YEAR COURSE

Second and third years; 3 hours a week and one practical class.

Hebrew texts from the Bible, Mishnah and Apocrypha, or medieval and modern literature; Israelite and Jewish history, archaeology and religion.

FINAL EXAMINATION: 4 papers.

ARABIC

ONE-YEAR COURSE

First-year; 3 lectures a week and one practical class.

Elementary Arabic grammar, prescribed texts from Arabic literature, Arabic history and institutions.

Students will attend a course on the pre-Islamic period and the extension of Islam through the period of the orthodox Caliphs.

EXAMINATION: 2 papers.

TWO-YEAR COURSE

Second and third years; 4 hours a week and one practical class.

Quranic texts; selections of poetry; Hadith literature; Annals; Quranic commentary and Arabic linguistics, history, institutions and religion.

In the second year students will attend courses on the history of the Umayyad period, and on the Arabs and Europe. In the third year students will attend courses on the history of the

Abbasid period, and further lectures on the Arabs in Europe. Time will be given in both second and third years to advanced Arabic prose, composition and unseen translation.

EXAMINATION: 4 papers and an oral examination.

For the degree of Bachelor of Arts in two subjects

The prescribed texts for two-subject degree schemes of study involving Hebrew or Arabic as a component normally include those set for students taking Hebrew or Arabic as a subsidiary subject, with the addition of certain texts set for the degree in Semitic Languages and Literatures. Students taking Hebrew attend a course in Jewish history and culture and students taking Arabic attend a course on the Arabs and Europe. Language laboratory tape courses also form part of the training of students taking two-subject schemes of study in either Hebrew or Arabic.

For the diploma in Hebrew

Hebrew Diploma Course

First and second years; 5 hours a week at times to be arranged.

Biblical and post-biblical Hebrew; Israelite and Jewish history; Hebrew conversation.

EXAMINATION: 2 papers each year.

For the certificate in Arabic

Arabic Certificate Course

First and second years; 5 hours a week at times to be arranged.

Classical and modern Arabic, Arab history and institutions; Arabic conversation.

EXAMINATION: 2 papers each year.

Non-Qualifying Hebrew and Arabic

Weekly lunch-hour courses in Hebrew and Arabic at varying levels on days to be arranged, open to students of all faculties.

Social Studies

SOCIOLOGY

As a subsidiary subject for the degree of Bachelor of Arts

ONE-YEAR COURSE

The one-year course in sociology will consist of the lectures and examinations in sociology prescribed for the first year of the scheme of study for the degree of Bachelor of Arts in sociology, of which particulars will be found in the prospectus *Faculty of Economic and Social Studies.*

EXAMINATION: 2 papers.

POLITICS

As a subsidiary subject for the degree of Bachelor of Arts

ONE-YEAR COURSE

The one-year course will consist of the course in politics prescribed for the degree of Bachelor of Arts in sociology, of which particulars will be found in the prospectus *Faculty of Economic and Social Studies.*

EXAMINATION: 2 papers.

Spanish

*As a subsidiary subject for the degree of Bachelor of Arts**

ONE-YEAR COURSE

This course is for students with no previous knowledge of the language.
First year; 4 hours a week. The first-year course will divide into two groups, one of which will make extensive use of language laboratory facilities.
Grammar and translation, reading and commentary on prescribed texts.
Geography of Spain, Portugal and Latin America for one term.

EXAMINATION: 1. Translation
2. History and geography
3. Oral

TWO-YEAR COURSE

Second and third years; 3 hours a week, with weekly seminar groups to be arranged, plus 1 hour of conversation.
Grammar and translation, literature and prescribed books.
Modern literature; Golden Age literature.

EXAMINATION: 1. Translation
2. Golden Age literature
3. Essay
4. Modern literature (taken in second year)
5. Oral

SPANISH IIIX

Courses in literature: a wide selection from single-subject degree courses, including Hispanic American literature and sessional and semester special courses.

FINAL EXAMINATION: 1. Translation
2. Golden Age literature (taken in second year)
3. Essay
4. One paper selected from the single-subject degree
5. Oral

The attention of candidates who offer Spanish as a three-year subject for a one-subject degree is drawn to the regulation regarding the examination in the second year. See page C119.

Theology

As a subsidiary subject in any faculty

Theology 1: ONE-YEAR COURSE

Candidates may take either scheme A or scheme B as prescribed below for the first-year scheme for the degree of Bachelor of Arts in two subjects.

Theology 2 and 3: TWO-YEAR COURSE

Second year, 3 hours a week.
History and religion of Israel from the beginning of the Exile to A.D. 70, with introduction to the relevant literature of the Old Testament and Apocrypha; introduction to the Epistles and Apocalypse; outlines of the history of the Christian church.

Third year, 4 hours a week.

Set books of Old Testament (Job) and New Testament (Romans); outlines of Christian theology.

* Subject to the approval of the Board of the Faculties of Arts, Economic and Social Studies and Law, candidates who are specially recommended by the head of the Department may be admitted in their first year to the second-year course and so proceed in their third year to take a selected course at a higher standard. The courses under this scheme are known as Spanish Ix, IIx and IIIx.

For the degree of Bachelor of Arts in two subjects

First Year

Scheme A

1. History and religion of Israel to the beginning of the Exile, with introduction to the relevant literature of the Old Testament (1 hour).

2. New Testament Greek (3 hours)

EXAMINATION: 1 three-hour paper in each.

Scheme B

1. History and religion of Israel to the beginning of the Exile, with introduction to the relevant literature of the Old Testament, with texts in English (Isaiah 1-14).

2. Introduction to the Gospels and the Acts of the Apostles, with text in English (Romans 1-8).

EXAMINATION: 1 three-hour paper in each.

Those who intend to do two-subject degrees including theology should do Scheme A. Those who do Scheme B can be admitted in their second year to two-subject degrees including theology only in exceptional cases and only if by the beginning of their second year they acquire an adequate knowledge of New Testament Greek.

For the degree of Bachelor of Arts in one subject

Courses for the degree of B.A. in theology are provided by the staff of the University who have the co-operation of associate lecturers, recognised for the purpose by the Senate, from the staff of the College of the Resurrection, Mirfield.

OLD TESTAMENT

First Year

3 hours per week, with tutorial.

Either

Course A Old Testament 1 (Hebrew)*

The course is intended to familiarise students with Biblical Hebrew. The grammar of Old Testament Hebrew will be studied with the reading of selected prose texts and an introduction to Old Testament Hebrew theological terms. The texts for 1971-72 are Genesis chapters 22 to 25 and 28. Grammar: A. B. Davidson, *An Introductory Hebrew Grammar*, new edition by J. Mauchline, 1962.

Or

Course B Hebrew 1*

The course is intended to familiarise students with Biblical Hebrew only. The course includes the study of Hebrew grammar, the reading of selected prose texts, introduction to Old Testament Hebrew theological terms and an outline of Hebrew history from the beginnings to Bar Kochba. The texts for 1971-72 are Genesis chapters 22 to 25 and 28 and the book of Jonah. Grammar: A. B. Davidson, *An Introductory Hebrew Grammar*, new edition by J. Mauchline, 1962.

EXAMINATION: 1 paper.

Second Year

Old Testament 2: 3 hours a week

(a) History and religion of Israel to the beginning of the Exile, with introduction to the relevant literature of the Old Testament.

* Students may take a one year course in some other subject approved by the head of the Department.

(b) *One* of the following options:

Option (*i*): Prescribed Old Testament texts in Hebrew with translation, exegesis and grammar. The texts prescribed for 1971-72 are Deuteronomy 8-15, II Kings 18-25, Psalms 73-77, 79-83.

Option (*ii*): Prescribed Old Testament texts in English. The texts prescribed for 1971-72 are Deuteronomy, Wisdom, Isaiah 1-14, Jeremiah 1-20, Psalms (selected), Job, Daniel. These texts are studied in the second and third years.

Third Year

Old Testament 3: 3 hours a week.

(a) History and religion of Israel from the beginning of the Exile to A.D. 70, with introduction to the relevant literature of the Old Testament and Apocrypha.

(b) *One* of the following options:

Option (*i*): Prescribed Old Testament texts in Hebrew with translation, exegesis and grammar. The texts prescribed for 1971-72 are Isaiah 46-53, Job 1-7, 28, Joel, Zechariah 1-8.

Option (*ii*): See *Second Year* (b) *Option* (*ii*) above.

EXAMINATION: 2 papers.

NEW TESTAMENT

First Year

3 hours a week.

Either Greek 1, *or* New Testament Greek (J.W. Wenham, *The Elements of New Testament Greek*).

EXAMINATION: 1 paper.

Second Year

3 hours a week.

New Testament language and literature.
The grammar and syntax of New Testament Greek.
Translation, criticism and exegesis of a prescribed Gospel. The Gospel set for 1971-72 is St. Mark.

Introduction to the Gospels and the Acts of the Apostles; textual criticism of the New Testament.

Third Year

3 hours a week.

New Testament language and literature 2.
Unprepared translation from the Greek New Testament.
Translation, criticism and exegesis of a prescribed Epistle. The Epistle set for 1971-72 is Hebrews.

Introduction to the Epistles and the Apocalypse; history of the formation of the New Testament canon.

EXAMINATION: 2 papers.

Church History

First Year

2 hours a week.

Introduction to the study of ecclesiastical history with a survey of the history of Christianity.

EXAMINATION: 1 paper.

Second and Third Years

Special subjects in the history of Christianity.

Students will choose four subjects from the following list as available. Ten hours of lectures and/or seminars will be given in each subject. No more than two subjects may be taken in the third year.

(a) Eusebius' *Ecclesiastical History*
(b) The apologetic tradition in early and medieval Christianity
(c) The formation of catholicism
(d) Orthodoxy and heresy in the fourth century
(e) Church and state in the post-nicene period
(f) Augustine and Augustinianism
(g) Christianity in western Europe in the eighth century
(h) Innocent III and his age
(i) Monasticism in western Europe
(j) Theology and art in the patristic and early medieval periods
(k) Martin Luther and his interpreters
(l) Calvin and Calvinism
(m) English religion in the seventeenth century
(n) French religion in the seventeenth and eighteenth centuries
(o) Evangelicalism in England
(p) F. D. Maurice, *The Kingdom of Christ*
(q) The rise of atheism, agnosticism and non-Christian humanism
(r) Nineteenth-century missions and the encounter of religions
(s) The twentieth-century discussions of the relation of Christianity to western civilisation
(t) Church, theology and politics in Germany since the Enlightenment
(u) An essay of 6,000 to 8,000 words on a topic of the students' choice, to be submitted not later than 1 May of their final year. The title of the essay should be submitted for approval by the head of the Department normally before the end of the second year.

EXAMINATION: 1 paper at the end of the third year.

Philosophy and History of Religion: (the one-year course followed by the two-year course.) [for details see page C196.]

Biblical and Historical Theology

Two lectures a week in the second and third years. The course is divided into two sections, which are taken in alternate years.

Section (*1*) The Incarnation and the Trinity with special reference to the following: the Old Testament antecedents; New Testament data and their interpretation; the controversies of the Conciliar Period; the Middle Ages and the Reformation Period; modern interpretations.

Section (*2*) The Atonement with special reference to the following: the Old Testament antecedents; New Testament data and their interpretation; early Christian conceptions, Greek and Latin, of salvation through Christ; the teaching of Anselm and Abelard; Reformation and Post-Reformation conceptions of the Atonement; modern interpretations.

Section (1) will be taken during the session 1971-72.

EXAMINATION: 2 papers at the end of the third year.

The degree of Bachelor of Divinity

The qualifying examination for the degree of Bachelor of Divinity which is referred to in articles 2 to 4 Ordinance VIII consists of the following subjects:

Old Testament history, literature and religion with or without Hebrew language and literature (2 papers, either in Old Testament alone, or in Hebrew and Old Testament)

New Testament language and literature (2 papers)
Church history (2 papers)
Biblical and historical theology (2 papers)
The philosophy of religion (2 papers) *or*
The history of religion (2 papers) *or*
The philosophy of religion (1 paper) *and*
The history of religion (1 paper)

The syllabus for the examination is that prescribed for the relevant subjects for the degree of Bachelor of Arts in theology.

If desired, the first part of the qualifying examination in each subject may be taken in one year and the second part in the subsequent year. Candidates who wish to divide the qualifying examination in this way will be required to take the appropriate papers for the degree of Bachelor of Arts in theology.

Entries for the qualifying examination must be made on the appropriate form not later than 24 January.

Philosophy and History of Religion

As a subsidiary subject in any faculty and for the degree of Bachelor of Arts in one subject or two subjects

Science students may take philosophy and history of religion 1 as an Introductory course.

Philosophy and History of Religion 1: ONE-YEAR COURSE

First year, 3 hours a week.

A study of the nature of religious belief, and a survey of the living religions of Asia and of Europe showing their function in human life and their historical development, with a special study of one religion other than Christianity or the religion of Israel.

Candidates for the degree of Bachelor of Arts in two subjects including religious studies will also take prescribed texts in English translation.

EXAMINATION: for the degree in theology—2 papers; as a subsidiary subject or for a two-subject degree—2 papers.

TWO-YEAR COURSE

Philosophy of religion 2 or History of religion 2 may be taken as a one-year course at the discretion of the head of the Department of Theology.

Either (a) Philosophy of Religion 2 and 3.
Second and third years; 2 hours a week.
The philosophical approach to religion (in the 2nd year); religious ethics with special reference to the Christian ethic (in the 3rd year).
Or (b) History of Religion 2 and 3.

Second and third years; 2 hours a week.
A comparative study of Asian and Western religious beliefs and culture, in the period before and the period since A.D. 1600.
Texts to be studied in English translation.

EXAMINATION: as a subsidiary subject—1 paper in 2 and 1 paper in 3.
For the degree of Bachelor of Arts in one or two subjects—as specified in the schemes of study.

THE UNIVERSITY OF LEEDS

Faculty of Education

1971-72

ORDINANCE III. DEGREES IN EDUCATION

1. The degrees in Education shall be:

Bachelor of Education (B.Ed.)
Master of Education (M.Ed.)
Master of Philosophy (M.Phil.)
Doctor of Philosophy (Ph.D.)

THE DEGREE OF BACHELOR OF EDUCATION

2. The degree of Bachelor of Education shall be conferred upon candidates who have fulfilled the requirements as to study and examinations; the degree shall be awarded with honours to those candidates who attain a sufficiently high standard in the examination.

3. Except as provided in article 4 of this Ordinance, all candidates for the degree of Bachelor of Education shall be required to have passed the examination for matriculation or to have obtained a certificate of exemption therefrom; to have provisionally registered as candidates for the degree on satisfactory completion of the first year of the three-year course for the Institute of Education Certificate in Education; to have finally registered as candidates on having completed the three-year course for the Certificate in Education and attained a sufficient standard in the examination held thereon; and thereafter to have pursued approved courses of study for a further year.

4. Serving teachers wishing to proceed to the degree of Bachelor of Education shall be required to have passed the examination for matriculation or to have gained a certificate of exemption therefrom; to have successfully completed a course of training in teaching recognised by the Department of Education and Science for the award of Qualified Teacher status and to have subsequently had not less than two years' approved teaching experience; to have passed or to have gained exemption from a special qualifying examination; and thereafter to have pursued an approved course of study for not less than one academic year.

5. Except with the special permission of the Senate:

(a) Candidates for the degree of Bachelor of Education who are to pursue a year of study for the degree immediately after completion of the three-year course for the Institute of Education Certificate in Education shall be required to reach a standard approved by the Senate in all parts of the examination for the Certificate.

(b) Every candidate for the degree of Bachelor of Education who has been admitted to the fourth year of study shall be required to present himself for the final examination at the end of that year.

(c) A candidate failing the final examination for the degree of Bachelor of Education shall not be allowed to present himself for re-examination on more than one occasion, which must not be later than the end of the fifth academic year after the date of his provisional registration as a candidate for the degree in the case of a candidate admitted under the provisions of article 3 of this Ordinance and not later than the end of the third academic year after the date of his registration in the case of a candidate admitted under the provisions of article 4 of this Ordinance.

(d) A candidate who does not pass the final examination at the first attempt will not be eligible for award of the degree with honours.

6. (a) Candidates who have passed the final examination for the degree of Bachelor of Education may be awarded:

(i) the degree of Bachelor of Education with first-class honours

or (ii) the degree of Bachelor of Education with second-class honours, first division

or (iii) the degree of Bachelor of Education with second-class honours, second division

or (iv) the degree of Bachelor of Education with third-class honours

or (v) the degree of Bachelor of Education.

(b) The names of successful candidates in each group shall be arranged in alphabetical order.

7. A candidate who has been awarded the degree of Bachelor of Education may not present himself a second time for the same examination.
(See also the regulations on pages D3-4)

THE DEGREE OF MASTER OF EDUCATION

The degree of Master of Education is governed by Ordinance VIII, articles 5-9 and by the regulations on pages D42-44.

THE DEGREE OF MASTER OF PHILOSOPHY

The degree of Master of Philosophy is governed by Ordinance VIII, articles 10-20 and by the regulations on pages D45-48.

THE DEGREE OF DOCTOR OF PHILOSOPHY

The degree of Doctor of Philosophy is governed by Ordinance VIII, articles 21–28 and by the regulations on pages D49-51.

Regulations for the Degree of Bachelor of Education

1. Candidates will not be admitted to courses of study for the degree of Bachelor of Education unless they have satisfied the examination requirements for entry upon degree courses as determined by the Joint Matriculation Board.

2. Candidates pursuing the three-year course for the Institute of Education Certificate in Education and intending to proceed immediately to the fourth year of study for the degree of Bachelor of Education will not be admitted to courses of study for the degree unless they pass the examinations for the Certificate and, in particular, achieve a satisfactory standard approved by the University Senate for this purpose, in practical teaching, education and the main subject of study.

3. Serving teachers wishing to read for the degree of Bachelor of Education will not be admitted to courses of study for the degree unless they have

(a) successfully completed a course of training in teaching recognised by the Department of Education and Science for the award of Qualified Teacher status and have subsequently had not less than two years' approved teaching experience;

(b) passed or gained exemption from a special qualifying examination, which will normally be held in January each year.

4. In the final year for the degree of Bachelor of Education candidates shall be required to take further courses in education and a main subject together with a linking study or studies which will relate to both. The main subject will be selected from the following list:

American studies
Art and the crafts
Biology
Chemistry
Communication arts and media
Drama
Economics
English
French
Geography
History
Home economics
Language and linguistics
Mathematics
Music
Physical education
Physical sciences
Physics
Psychology
Rural science
Social studies
Spanish
Theology

5. All intending candidates must comply with any special requirements laid down in relation to the subject selected from the list set out in regulation 4 above.

6. A candidate proceeding to the final year of study for the degree of Bachelor of Education immediately after completion of the three-year course for the Institute of Education Certificate in Education must offer the main subject of his Certificate, provided that if the main subject is not included in the list of main subjects in regulation 4 above, he may be allowed, subject to the approval of the Board of the Faculty of Education, to transfer in his final year of study to one of the courses approved for the final year of the degree of Bachelor of Education, provided that the courses he has previously taken are deemed adequate by the Senate as a basis for his further studies.

7. A serving teacher may be admitted to a course of study which includes any one of the main subjects listed in regulation 4 above, provided that his previous studies (including any undertaken subsequent to the award of Qualified Teacher status) and professional experience are deemed adequate by the college of education at which he will be pursuing his further studies.

8. Candidates must comply with all requirements laid down for examinations arranged in connection with any course they may take but they will not be permitted to take the final examination unless they have regularly attended the prescribed courses of study and performed the work of the class to the satisfaction of their teachers and their college authorities.

9. Examinations in a modern foreign language will include an oral examination.

10. The examinations will ordinarily be held in May and June of each year.
(See also the prescribed schemes of study on pages D5-41).

Regulations Prescribing Schemes of Study for the Degree of Bachelor of Education

Candidates should note that in order to qualify for admission to a scheme of study for a first degree in the University, they must satisfy a *General Requirement* and a *Course Requirement**. For information regarding the General Requirement, for purposes of matriculation, candidates should write to: The Secretary, Joint Matriculation Board, Manchester, M15 6EU, indicating that they wish to enrol as candidates for the Bachelor of Education degree in the University of Leeds and stating the date of their proposed entry upon the fourth year course for the degree: those candidates wishing to proceed to the fourth year of study immediately after completion of the three-year course for the Institute of Education Certificate in Education should also state the date of their entry to a college of education.

For entry to the fourth year of study in 1971-72 the course requirement for candidates already registered for the B.Ed. degree, who are proceeding directly after completion of studies for the Institute of Education Certificate in Education, is that the following standards must have been achieved in the Certificate examination:

(i) B or higher gradings in Education and the main subject

(ii) a 'full' C in practical teaching.

Serving teachers wishing to enter upon the fourth year of study in 1971-72 must, in addition to satisfying the general requirement and obtaining a place in a college of education, have had two years' approved teaching experience after completing a course of training in teaching recognised by the Department of Education and Science for the award of Qualified Teacher status and must have passed or gained exemption from a special qualifying examination.

The examination in the final year will consist of

A. EDUCATIONAL STUDIES

Normally two papers on each of the two topics chosen by the candidate; and an assessment of two essays (not exceeding 4,000 words each) written in the course of the year. The examination mark relating to each topic and the assessment of the essays will be of equal importance in the examination.

B. MAIN SUBJECT

Normally three papers or paper-equivalents (each of which will be of equal importance in the examination)—fuller details are given under the regulations of the main subject concerned.

C. LINKING STUDIES

Normally one paper or a long essay on a topic arising from the candidate's work in educational studies and his main subject – fuller details are given under the regulations of the main subject concerned. The examination marks relating to linking studies will be taken into account in the classification of candidates for the degree.

* Additional requirements must be satisfied by students choosing certain main subjects; these are specified in the first paragraph of the regulations for the main subject.

EDUCATIONAL STUDIES

SCHEME OF STUDY

1. All students for the degree of B.Ed. must take *one* of the following three courses:

   A philosophical study of education
   Human development
   Sociological aspects of education

(a) *A Philosophical Study of Education*

The aim of this course is to examine the contribution of philosophy to the clarification of educational problems. The emphasis is on questions of meaning and criteria of justification.

(i) Analysis of concepts involved in educational aims and processes:
Education and socialisation
Educational aims
Education and the development of mind
Teaching, training, instruction, learning by discovery, learning by experience, indoctrination, conditioning
Child-centred education.

(ii) Theories of knowledge and the curriculum:
Theories of meaning. Concepts and propositions in different forms of discourse
Knowledge and belief. Theories of truth
Propositional and practical knowledge
Differentiation of knowledge
Liberal education
The nature of school subjects, curriculum integration, the needs-curriculum.

(iii) Philosophy of mind:
Actions, intentions, motives
Thinking
Intelligence
Imagination and creativity
Education of the emotions.

(iv) Ethics and education:
Value judgements in education
Ethical theories
Moral education.

(v) Social principles in education:
Freedom, justice, equality, democracy, respect for persons, responsibility and authority, punishment and discipline, rights and duties.

(b) *Human Development*

The term 'human development' covers development up to, and including, adolescence. It is intended to use the syllabus to bring out the relevance of recent findings which extend the understanding of human development.

(i) Principles of heredity, physical development; nutritional studies; constitutional and biological correlates of behaviour

(ii) Sensory and perceptual development

(iii) The growth of structured thought, including the relationship between thought and language. The role of play in human development

(iv) Concepts of morality and theories of moral development

(v) Development and organisation of personality; dynamic schools; learning theories; ego psychology

(vi) The social context of human development; cultural patterns, e.g. child rearing practices; sub-cultural groups; age-sex roles; social change and adolescent adjustment

(vii) Atypicalities of family environment in relation to the school situation.

(c) *Sociological Aspects of Education*

(i) Social stratification and education:
Basic agencies of socialisation: family, age groups, school, leisure groups, religion, ethnic groups; the role of the mass media; social class and social mobility; the role of education in social mobility; selection for education; the relation of the educational structure to political and social ideology

(ii) Education and the process of social selection:
Educational consequences of social and technological change; place of further and higher education; transition to work; social pressures and values in occupational choice

(iii) Sociology of the school:

Social origins of teachers, methods of selection and recruitment, qualifications, status; role and authority relations, sources of conflict; attitudes and prejudices.

2. All students for the degree of B.Ed. must *either* take another of the three courses described in 1 above *or* take one of the following seven courses:

(a) *Comparative Education*

This course will have particular relevance for students who have had specific experience of the life and culture of foreign lands, or who have been pursuing an academic study of the language, culture, institutions and/or life in other countries.

(i) Introduction:

A brief general introduction to this course (not more than three lectures) will be given prior to the summer vacation which precedes the student's entry to the fourth-year course for the degree of B.Ed. It will indicate the nature of comparative education, and will include such consideration of methods as will enable students to embark on area studies during the vacation. Advice will be given on preliminary reading and on the availability of source material.

(ii) Area studies:

Each student will undertake an area study of one educational system other than his own. This will normally be a study of the educational system of a country but the precise nature of these studies will be determined to a large extent by the student's interest, previous knowledge and academic background. For instance, a student may prefer to consider intensively one particular aspect of an educational system, or a specific geographical or administrative region within that system. Whatever particular emphasis the student may wish to place, he must ensure that the study adequately covers the organisation and administration of the system and a study of particular types of institutions within the system. Students will be required to produce an essay for the area study, supported by maps, diagrams, pictures, etc. The document should include information about the cultural, economic and social background of the region together with a bibliography and list of source material; and its assessment will contribute to the examination result.

(iii) Factors affecting educational systems:
This section of the course is intended to help students to appreciate clearly what are the factors influencing or determining the nature of educational systems. These factors could include, amongst others: religious; racial and linguistic; geographical and economic; and political. They will be illustrated by reference to students' area studies, although it may be necessary to consider aspects of education systems not examined in area studies.

(iv) Analysis and comparative study of educational systems:
In this section of the course the educational systems of five or six countries will be broadly studied. The six will normally be England & Wales, France, Sweden, U.S.A., U.S.S.R. and West Germany, but the final selection will be made by individual tutors. Some of these areas will have been studied by students individually under part (ii) of the syllabus as set out above and students will now be able to compare the area/s they have studied in detail and those treated more broadly in this part of the syllabus. Each country will be studied under these five headings:

The organisation and administration of education
Pre-school education (where relevant)
Primary education
Secondary education
Tertiary education (where appropriate this will be sub-divided into other divisions, e.g. technical education, universities, etc.)

Significant comparisons will also be made under each heading.

(v) The problem approach:
This section is intended (i) to focus attention on particular topics which are considerably illuminated by a comparative study; and (ii) to expand the consideration of educational problems to something more like a world-wide outlook. The list for any particular group of students will vary according to the knowledge and interests of both tutor and students but the following are examples of possible 'problems' to be considered:

Centralisation and decentralisation
The place of national ideology in education
The struggle against illiteracy
Equalising educational opportunity
The population explosion
The education of the gifted child
Vocational education
Establishing an educational system in an under-developed country
Freedom and responsibility.

(b) *History of English Education*

PART I

Medieval schools: elementary, kinds and provision; grammar, provision and curriculum; medieval universities; effects of Renaissance philosophy and of introduction of printing on educational thought and practices; Reformation and English schools: effects of dissolution of monasteries, of Chantries Acts, of new state and church influence; education at the Inns of Court and universities, *c.* 1540-1640 and social and political effects; grammar schools, *c.* 1550-1800: provision and curriculum; Catholic recusant education, *c.* 1547-1800; educational ideas and state intervention during Commonwealth; foundation of Royal Society and its implications; religious and political origins of Dissenting Academies; growth of private schools and changes in content of education; charity school movement: its religious and political origins, provision and curriculum; education of gentry in the 18th century: private tutors, Grand Tour, emergence of public schools; universities in the 18th century.

PART II

Elementary education before 1833; Lancastrian schools; denominational societies. Earliest Treasury grants; Committee of Council; Kay-Shuttleworth; Inspection; Poor Law Schools; 1846 Minute. Newcastle Commission; Revised Code 1862; Education Act 1870; School Boards. Secondary education; Endowed Schools Commission; Charity Commission; curriculum development. Science and Art Department; County Councils; Technical Instruction Act; Bryce Commission. Board of Education Act 1899; Cockerton Judgement; Education Act 1902; Sir Robert Morant; development of ancillary services before 1914. University development in the 19th century; Treasury grants; universities between the wars and expansion in the last 20 years. H. A. L. Fisher; Education Act of 1918; superannuation and Burnham arrangements; effects of economic difficulties; the Hadow Reports; Education Act of 1936; Spens Report; war, evacuation and its consequences. Education Act of 1944 and later developments.

(c) *Language and Communication*

(i) In this section all students will study:

(a) The nature of language; for example, the purposes which it serves, its relation to thought, etc.

(b) Speech and writing; the mechanism of speech, English phonology, relationships between speech and writing and the history of writing systems

(c) Language development in the individual; considered from both a sociological and a psychological point of view.

(ii) In this section all students will study language in the classroom; i.e. investigate what kinds of (written and spoken) language occur in the classroom and what functions they perform.

Use should be made of the student's own language, both written and spoken, wherever possible.

(d) *Measurement in Education*

The syllabus for this course has been designed so that it can be treated in one of two ways: *either* by the practical and descriptive approach *or* by the mathematical approach. Separate examinations will be set for these two approaches and candidates who have studied mathematics as a main subject and reached the required standard in the Certificate in Education will not normally be allowed to opt for the practical and descriptive approach.

(i) Measurement in education in relation to practice and research.

(ii) Introductory statistics:

Measurement including reliability theory and concept of validity
Variables, discrete and continuous
Collection and organisation of data: (1) Frequency distributions, their tabulation and graphical representation; and (2) Cumulative frequency diagrams, quartiles, percentiles
Measures of central tendency, mean, median, mode
Dispersion, range, mean deviation, standard deviation
Standard scores
Bionomial distribution
Normal distribution.

(iii) Inferential statistics:

Sampling theory (large samples)
Formulation and testing of statistical hypothesis, confidence limits
Sampling theory (small samples)
Correlation and linear regression
Simple analysis of variance—one and two way analysis of variance
Non-parametric statistics.

(iv) Types of tests and principles of test construction.

(e) *The Education of Backward and other Handicapped Children*

Practical work is envisaged as an integral part of this course. Written papers will be expected to show evidence of the candidates' ability to relate practical experience in this field to the more theoretical part of the course. To this end, a period of relevant experience will normally be arranged.

(i) Developmental processes:
General physical development and its educational implications. The neurological system. Developmental deviations, including the concept of minimal brain damage. The physically handicapped. Personality disorders: aetiology and classification. Deviant personalities. The milder forms of maladjustment: the relationship between scholastic attainment and disorders in the affective life. The relationship between thought and language. The role of language as a developmental influence. Language and particular handicaps.

(ii) Education treatment:
Methods of assessment
Curriculum development and teaching methods appropriate to: certain handicaps, including the milder forms; and backward children in ordinary schools.
Changing patterns in special education. A brief study of the form of special educational provision in one other country.

(iii) Social integration:
The social adjustment of backward and other handicapped children.
Backward and other handicapped children in the community.

(f) *The Educational System: Its Organisation and Administration*

Growth and development of the administrative system in England and Wales; central Government agencies, evolution, structure and functions; Local Education Authorities, evolution, structure and functions; divisional executives; governors and managers of schools; inspection of schools by H.M.I.s and local authority inspectors; consultative machinery at central and local levels; cost of education; Government grants, Local Authority finance; school building, voluntary schools; organisation of teacher training; organisation of technical education; development of ancillary services; public examination system; independent schools, their organisation and finance, relationship to the publicly maintained system.
The various aspects of the administration of the system detailed above will be studied against a background of the relevant social, political and historical factors.

(g) *Theories of Human Learning*

Theories of learning will be studied in historical perspective with some analysis of their philosophical precursors, the basic assumptions about the nature of man underlying them and the extent to which they differ and are related. Above all, consideration will be given to how far each theory or group of theories helps to explain the facts of human learning, and a fuller study will be made of those theories which have had, or are having, some influence on educational practice.
The syllabus is divided into three sections. One of the examination papers will be set on topics from section A and the second on topics from sections B and C:

A.

Methods of studying human learning
Varieties of learning
Theories of learning:

1. Stimulus—response theories
   Thorndike—Pavlov—Watson—Guthrie—Hull—Spence—Skinner—Lumsdaine—Sheffield—Broadbent.
2. Field—cognition theories
   Koffka—Köhler—Wertheimer—Lewin—Tolman.
3. Compromise and emergent theories
   Mowrer—Estes—Osgood—Galanter, Pribram and Miller.
4. Piaget's development theory and schematic learning.

B.

Factors in learning:

1. Motivation—in this section of the course students will consider how far the following theories help to explain motivation in the classroom; they will also consider other motivational factors of which the theories do not take account:
   Instinct theories
   Ethological theories
   Psychoanalytic theories
   Behaviour theories
   Social theories: culture pattern theory, field theory
   The concept of 'competence'.
2. Perception—the part played by perceptual processes in learning.
3. Remembering and forgetting—experimental studies and theories of remembering and forgetting in relation to classroom learning.
4. Transfer of learning—a study of the classic experiments in transfer of learning and of the problem of transfer in the light of Piaget's model of mental structures.
5. Other factors affecting learning—nature of material to be learned, of learning task, etc., methods of presentation, individual and social determinants.

C.

Some applications of the psychology of learning to education
Programmed learning
Teaching of specific subjects
Curricular developments
Emotional and social development.

FINAL EXAMINATION

1. Two papers* (3 hours each and common to the candidates of all Colleges) on *each* of the two topics chosen by the candidate.
2. Assessment of two essays (not exceeding 4,000 words each), written in the course of the year, on topics relating to contemporary educational issues.†

MAIN SUBJECT

All students for the degree of B.Ed. must choose one of the following 23 main subjects (and their associated linking studies):

American Studies

SCHEME OF STUDY

1. The U.S.A. from 1850 to 1919: a study of the social and political history and of selected poetry and prose of the period

*In comparative education the examination will consist of one paper and one paper equivalent (the area study). In language and communication the examination will consist of one paper and one paper equivalent (a project and *viva voce* test).
†*This work shall be the personal independent work of the student.*

2. The U.S.A. from 1919 to the present day: a study of the social and political history and of the literature of the period

3. A special option* within the period 1850 to the present day of *either* a literary genre *or* the works of a major author and of the issues expressed in or affecting the selected literature *or* an aspect of the government, history or politics of the U.S.A. within the period 1850 to the present day involving the use of original sources.

FINAL EXAMINATION

1. A written paper (3 hours) on the U.S.A. from 1850 to 1919

2. A written paper (3 hours) on the U.S.A. from 1919 to the present day

3. A written paper (3 hours) on the special option chosen by the candidate.

LINKING STUDY

Candidates will be required to present an essay of not more than 5,000 words during the session on the methods and media of teaching American Studies or on a comparable subject approved by the Board of the Faculty of Education.

Art and the Crafts

SCHEME OF STUDY

1. A critical study of writings on art and design by various authors, including two prescribed texts.

For 1971-72 the two prescribed texts will be:

Fry, R.: *Vision and Design*
Battcock, G. (ed.): *The New Art*

together with such reading as the following:

Pye, D.: *The Nature and Art of Workmanship*
Clark, K.: *Civilisation*
Ehrenzweig, A.: *Hidden Order of Art*
Wollheim: *Art and its Objects*
Mumford, L.: *Arts and Technics*
Arnheim: *Art and Visual Perception*
Ruskin, J.: *The Seven Lamps of Architecture*

2. Practical work in fine art, three-dimensional design, textiles, graphics.

3. An analysis (in an area, and on a scale, approved by the Board of the Faculty of Education) of experiences inherent in creative activity, arising out of the candidate's chosen field, normally involving the presentation of a considerable amount of written matter, but also including, e.g., visual and tactile material.

FINAL EXAMINATION

1. A written paper (3 hours and common to the candidates of all colleges) on art and design.

* To be approved by the Board of the Faculty of Education.

2. Assessment of practice work during the course.*

3. Assessment of the material assembled in the course of the analysis of creative experiences.*

LINKING STUDY

Candidates will be required to present an individual study of not more than 8,000 words on some aspect† of art and the crafts as a medium of education.

Biology

SCHEME OF STUDY

1. Plant and animal nutrition

For convenience, the syllabus of this course has been divided into plant and animal components but, clearly, there are cross-connections between plant and animal components at the cellular and biochemical levels and the student will be expected to search for such cross-connections.

Plant Nutrition: Photosynthesis; mineral nutrition; growth and development; nitrogen fixation.

Animal Nutrition: Essential components of the diet; animal feeding mechanisms; alimentary systems; digestion and the digestive enzymes; recent advances in digestive physiology.

2. A course of study in *one* of the following topics:

Plant and animal associations
Genetics
Ecology
Aspects of comparative anatomy and evolution in vertebrates
Enzymology and cell metabolism
Water as a biological fluid.

FINAL EXAMINATION

1. A written paper (3 hours and common to the candidates of all colleges) on plant and animal nutrition

2. A written paper (3 hours and common to the candidates of all colleges) on *one* of six possible topics chosen by the candidate from:

Plant and animal associations
Genetics
Ecology
Aspects of comparative anatomy and evolution in vertebrates
Enzymology and cell metabolism
Water as a biological fluid

3. A practical examination

4. (Normally) an oral examination (which will not take place during the practical examination).

* An oral examination will be an essential part of sections 2 and 3.
† To be approved by the Board of the Faculty of Education.

LINKING STUDY

An individual piece of work in which the student is interested and which he chooses,* combining Biology and Education. It will be examined by an assessment of 1, 2 or 3 long essays written during the year.

Chemistry

SCHEME OF STUDY

1. Students will cover the following syllabus—including practical work—in inorganic, organic and physical chemistry:

Physical methods of determining molecular structure
Metal-ligand bonding in complexes
Stability of complexes in solution
Mechanisms of organic reactions and their investigation
Stereochemistry: conformation and stereochemistry of reactions
Some newer methods of synthetic organic chemistry
Thermodynamics and its applications to chemical problems
Energy levels and the distribution of energy
Rates of chemical change: investigation and interpretation.

2. Each student will study some special problem approved by the Board of the Faculty of Education; he will work under the general supervision of a member of the staff of his college.

FINAL EXAMINATION

1. *Two* written papers (each of 3 hours and common to the candidates of all colleges) covering inorganic, organic and physical chemistry

2. The candidate will be asked to submit a report by 1 May on the special study he has undertaken (as part 2 of the scheme of study outlined above); this will consist mainly of a literature survey and a record of experimental work. (An assessment of the quality of the candidate's work and of the methods used in this study will also be presented to the examiners by his supervisor.)

LINKING STUDY

Candidates will be required to present an essay or essays amounting to not more than 8,000 words on some aspect* of chemical education, e.g. the historical, the social or the pedagogical aspects of chemistry or chemistry teaching.

* To be approved by the Board of the Faculty of Education.

Communication Arts and Media

SCHEME OF STUDY

The scheme of study described below has been preceded by a three-year course in Communication Arts and Media for the Certificate in Education. The Certificate course involves an introduction to the study of language and communication in general. Specific attention is given to compound forms of communication, in particular the graphic and the three-dimensional. An introduction to the application and operation of the media, and to the study of the design of communications, is also an integral part of the course.

The earlier course aims, through integrated study and practice, to investigate and analyse the major modes of communication, and thus to provide a ground for the more critical approach of the fourth year of study.

1. *Critical modes*

In this section of the scheme the emphasis will be upon criteria—both those involved in deciding the effectiveness of various communications and those involved in critical judgement of the intrinsic value of individual communications or artefacts. The media of communication principally involved will be those related to either art and design or English, in association with film and television in each case.

The course will include:

(a) a general and theoretical study of criticism

(b) a consideration of the technical and social constraints in communication in the various media

(c) studies of varied critical modes.

The sources of study will include materials of a more lasting significance and others drawn from periodical literature. Texts used will include:

(i) The study of criticism and general artistic and literary theory:

Wellek, R. and Warren, A.: *Theory of Literature* 1949
Beardsley, Monroe: *Aesthetics: Problems in the Philosophy of Criticism* 1958
Casey, J.: *The Language of Criticism* 1966
Frye, N.: *The Anatomy of Criticism* 1957
Winsatt, W. K.: *The Verbal Icon* 1954
Sparshot, F. E.: *The Structure of Aesthetics* 1963
Gombrich, E. H.: *Art and Illusion* 1962
Kepes, G. (ed.): *Vision and Value, I-VI* 1965-66

(ii) Film:

Kael, P.: *I Lost it in the Movies* 1966
Agee, J.: *On Film, I, II* 1965-67
Battock, G.: *New American Cinema* 1967
Kauffman, G.: *A World on Film* 1967

Durgnat, R.: *Films and Feeling* 1967
Les Cahiers du Cinema
Graham, P.: *The New Wave* 1969
Woller, P: *Signs and Meaning in the Cinema* 1969
Lindgren, E.: *Art of the Film* 1963
Arnheim, R.: *Film as Art* 1967
Jacobs, L. (ed.): *The Emergence of Film Art* 1969
Nicol, A.: *Film and Theatre* 1936

2. A course of study in *either*

The study of modern art

The recent history of modern art will be studied by using the artistic development of Pablo Picasso as a central theme; attention will also be paid to critical reactions to the work of Picasso.

or

Contemporary writing in English

A selection of novels and plays of some literary merit will be used as examples of contemporary writing in English; the selection will be influenced by the number of media in which the works have been presented so enabling comparisons to be made. Attention will be paid to the relationship between such works and the mass culture of the day and also to contemporary literary debate.

The following texts will be used during session 1971-72:

(a) Contemporary writing

Golding, W.: *The Spire*
Miller, A.: *Death of a Salesman*
Amis, K.: *Lucky Jim*
Pinter, H.: *The Caretaker*
McCarthy, M.: *The Group*
Bellow, S.: *Herzog*
Greene, G.: *The Comedians*
Murdoch, I.: *The Severed Head*

(b) Literary debate

Alvarez, A.: *Beyond All This Fiddle* 1968
Brustein, R.: *A Season of Discontent* 1966
Dennis, H.: *Dramatic Essays* 1962
Kermode, F.: *Puzzles and Epiphanies* 1962
Lawrence, D. H.: *Selected Literary Criticisms* 1961
Tynan, K.: *Curtains* 1961

FINAL EXAMINATION

1. A written paper (3 hours and common to the candidates of all colleges) on critical modes

2. A written paper (3 hours and common to the candidates of all colleges) on *either*
The study of modern art; *or*
Contemporary writing in English

3. Assessment of a long essay on a theme involving a critical study* on some aspects of mass communication.

LINKING STUDY

Candidates will be required to prepare educational materials in a variety of media and to present an individual study of their use, linking their educational studies with their work in Communication Arts and Media and accompanied by a written commentary not exceeding 8,000 words.

Drama

SCHEME OF STUDY

1. Students will study a special subject (or a special period) approved by the Board of the Faculty of Education. For session 1971-72 this will be *The contemporary theatre.*

The following texts are prescribed for study during 1971-72:

M. Esslin: *Brief Chronicles*
E. Bentley (ed.): *Theory of the Modern Stage*
Marowitz, Milne and Hale (eds.): *The Encore Reader*
Marowitz *et al.* (eds.): *Theatre at Work*

Students will also be expected to undertake additional reading, such as the following:

Cole (ed.): *Actors on Acting; Directors on Directing; Playwrights on Playwriting*
Drama in Education: The Annual Survey
Theatre Quarterly
Allardyce Nicoll: *Masks, Mimes and Miracles* and *The World of Harlequin*
Bentley: *The Life of the Drama*
Nagler: *A Source Book in Theatrical History*
Tynan: *Curtains* (paperback entitled *Tynan on Theatre*)
Bamber Gascoigne: *World Theatre*

2. The preparation, under supervision, of a long essay on a subject approved by the Board of the Faculty of Education, normally arising within the area specified in 1 above; *or exceptionally, and in specifically agreed circumstances,* the preparation of an original dramatic work of approved structure and dimension.

3. Contribution to an approved dramatic performance.

FINAL EXAMINATION

1. A written paper (three hours long and common to candidates of all colleges) on *The contemporary theatre*

2. Assessment† of the long essay or dramatic work

3. Assessment† of the candidate's contribution to the dramatic performance.

LINKING STUDY

Candidates will be required to present an individual study (normally in the form of a lecture-demonstration lasting about an hour) of some aspect of drama as a medium of education.

* To be approved by the Board of the Faculty of Education.
† To include an oral examination by internal and external examiners.

Economics

SCHEME OF STUDY

1. The State and economic life.
Management of the economy; incomes policy; planning; nationalised industries; intervention in the private sector; monopolies and restrictive practices legislation, U.S. antitrust law; location of industry policy.

2. The economics of under-developed countries.
Concepts of backwardness and development; health education and living standards; employment and productivity; agriculture and the rural sector; industrialisation and urbanisation; the pattern of trade; sources of capital; government planning and socialist solutions.

3. The economics of business behaviour and public policy
(a) Business enterprise and market structures: monopoly and competition, issues and methodology, competition and welfare. The development of the explicit theories of perfect competition and monopoly in the late nineteenth and early twentieth centuries. Theories of duopoly, oligopoly and monopolistic competition.

(b) Behavioural and strategic theories of the firm.

(c) Business concentration and public policy.

(i) The origins of monopoly legislation in Great Britain and the U.S.A.

(ii) Modern capitalism, the separation of ownership and control; the role of capital markets.

(iii) Implications of the multi-national corporation.

FINAL EXAMINATION

1. A written paper (3 hours long and common to candidates of all colleges) on the State and economic life.

2. A written paper (3 hours long and common to candidates of all colleges) on the economics of under-developed countries.

3. A written paper (3 hours long and common to candidates of all colleges) on the economics of business behaviour and public policy.

LINKING STUDY

Candidates will be required to present an essay of 5,000 to 7,000 words during the session on the methods and media of teaching economics or on a comparable subject approved by the Board of the Faculty of Education.

English

SCHEME OF STUDY

1. A study of the plays of Shakespeare

2. English literature, life, language and thought selected from *either* 1580 to 1700 *or* 1880 to the present day
A study of representative literary texts covering the major genres, making use where necessary of anthologies of prose and verse, and of appropriate background works.

3. An intensive study within the period chosen from 2 above, covering in detail some special aspect of literature or language, such as:

a major genre studied throughout the whole or part of the period; or
a period of twenty or thirty years; or
the works of a major author *in extenso;* or
the language of the period; or
some other comparable unified body of material

The intensive study shall not include aspects of Shakespeare's plays.

FINAL EXAMINATION

1. A written paper (3 hours long and common to the candidates of all colleges) on the plays of Shakespeare

2. A written paper (3 hours long and common to the candidates of all colleges) on English literature, life, language and thought from *either* 1580 to 1700 *or* 1880 to the present day

3. Assessment of two essays (submitted from the year's work) of not more than 3,000 words each, covering the special aspect chosen under part 3 of the scheme of study as set out above.

LINKING STUDY

Candidates will be required to present an essay of 5,000 to 7,000 words during the session on some aspect* of the relation between Education and English Studies.

French

ADDITIONAL COURSE REQUIREMENT

All students selecting this subject are advised to choose their two options in Educational Studies as follows: any one (or any two) of the three topics set out in part 1 of the scheme of study for Educational Studies and (if only one is chosen) one of the following options—in the order stated—from part 2 of that scheme: (c), (a), (d) and (g).

SCHEME OF STUDY

During their fourth year of study students will continue the detailed studies of French language, literature and institutions which they have pursued in their three-year course leading to the Certificate of Education. The emphasis of the syllabus will vary from college to college, to avoid duplication of work done in the first three years, but the literary syllabus as a whole will be approved by the Board of the Faculty of Education.

FINAL EXAMINATION

1. Three written papers, common to the candidates of all colleges:

One 3-hour paper comprising translations into French and an essay in French
One 1½-hour paper, translation from French into English
One 1½-hour paper, written aural comprehension test.

*To be approved by the Board of the Faculty of Education.

2. A written paper (3 hours and common to the candidates of all colleges) on the structure of modern French society. Candidates will be expected to show knowledge of the evolution of French society since 1870, with particular reference to the problems of France since 1945. They will be required to answer questions on French national and local government, constitutions, educational organisation and basic industrial and social structures. Candidates will also be given an opportunity to show knowledge of the geography of France and the development of the arts in France in the twentieth century.

3. A written paper on French literature. For the examination to be held in 1972 all candidates will be required to show knowledge of texts from at least two major periods. A list of set texts will be provided by each college for its students. Each college will provide, after consultation with the University, a list of set texts for its own candidates. Candidates may, with the approval of their college and of the Board of the Faculty of Education, submit a long essay of between 8,000 and 9,000 words in either English or French *in lieu of this paper*.

4. An oral examination in French.

LINKING STUDY

Candidates will be required to make a study of a topic, approved by the Board of the Faculty of Education, which would cover the individual candidate's investigations into modern teaching techniques in relation to French.

Geography

SCHEME OF STUDY

1. Geography I: physical aspects of geography
The evolution and nature of the natural environment and its significance to human activity
The fields of study will be:

Geomorphology: the evolution and nature of landforms
Weather patterns and climatic regimes
The evolution and distribution of vegetation types
The development of soil profiles and the distribution of soil types.

2. Geography II: human aspects of geography with particular reference to historical and economic topics.

3. Geography III: regional study

For the session 1971-72 the region selected for study must be one of the following:

U.S.S.R.
Western Europe
Eastern Asia
The Indian sub-continent
Africa south of the Sahara
Latin America

The systematic principles and processes in the courses under Geography I and Geography II will be illustrated by reference to diverse areas, including in particular the local area and the region selected under Geography III.

FINAL EXAMINATION

1. A written paper (3 hours and common to the candidates of all colleges) on the physical aspects of geography.

2. A written paper (3 hours and common to the candidates of all colleges) on the human aspects of geography.

3. A written paper (3 hours) on the region of the candidate's choice.

LINKING STUDY

Candidates will be required to submit a study not exceeding 8,000 words, dealing with some aspect* of the development of geographical ideas in children. This should normally focus on some aspect of a specific locality accessible to the school, or studied at first hand by the candidate, which should be considered with regard to the opportunities it offers as a source of ideas and material for teaching children in a particular age range. Work with, or investigation of the ideas of, a small group of children should be followed by analysis and evaluation of the educational issues involved.

History

SCHEME OF STUDY

1. British history

A course of study in British history from 55 B.C. to the present day divided into three periods:

(a) 55 B.C.-1399

(b) 1399-1714

(c) 1714 to the present day.

2. Nationalism and internationalism, 1871-1951

(a) *1871-1914: Nationalism and internationalism with special reference to the Great Powers*

Imperialism and international socialism; religious and cultural movements; the international economy

(b) *1914-1939: Nationalism, the First World War and its aftermath*

Rise of totalitarianism; Nationalist movements outside Europe; economic nationalism; internationalism with special reference to the League of Nations, disarmament and economic problems; international socialism and communism.

(c) *1939-1951: The Second World War and its aftermath*

Ascendancy of U.S.A. and U.S.S.R.; the impact of technology; the United Nations; the breakdown of imperialism and the rise of new national states.

3. A special option involving the use of original sources.

FINAL EXAMINATION

1. A written paper (3 hours and common to the candidates of all colleges) on British history from 55 B.C. to the present day. (It will contain approximately 50 questions, one-third of which will be set on each of the following three periods: (i) 55 B.C.-1399; (ii) 1399-1714; (iii) 1714-present day. The candidate will be expected to answer four of these questions.)

* To be approved by the Board of the Faculty of Education.

2. A written paper (3 hours and common to the candidates of all colleges) on nationalism and internationalism 1871-1951.

3. A written paper (3 hours) on a special option chosen by the candidates' college and involving the use of original sources.

LINKING STUDY

A written paper (3 hours and common to candidates of all colleges), in which candidates will be expected to answer one or more questions on one of the following topics:

1. The teaching of history in the light of modern research into learning theory

2. An examination of the problems relating to the teaching of world and contemporary history in schools

3. An examination of teaching media in history teaching

4. An examination of the educational bearing of an aspect of the philosophy of history

5. An historical examination of a local educational issue.

Home Economics

ADDITIONAL COURSE REQUIREMENT

All students selecting this subject *must* take the option 'Sociological aspects of Education' as one of their two options in Educational Studies.

SCHEME OF STUDY

1. Studies in the sociological background to home economics
The syllabus of this course is concerned with a study of the ways in which the three principal needs of food, clothing and shelter are met in different societies:

(a) *Sociology of the family*

The structure and functions of the family in contemporary British society, in other industrial societies, and in primitive societies. Division of functions between men and women as regards household duties, earning, and child rearing in different societies. Reproduction and family size. Social class differences in reproduction, marriage, nuptiality, and child rearing. The demographic revolution, the transition to the small family system.

(b) *Distribution of income and expenditure*

The distribution of incomes in Great Britain between individuals and households; the influence of family income on expenditure and on nutritional standards. Family budgets. Poverty and poverty lines. Attempts to set up subsistence standards and criticisms of subsistence standards.

(c) *Nutrition*

Nutritional needs and the assessment of nutritional status. Difficulties in undertaking surveys of nutrition. The consumer expenditure survey and the food expenditure survey. The nature of data collection and limitations of the data.

(d) *Housing*

Housing standards and comfort. Housing legislation and attempts to subsidise housing. The interrelation between housing, family structure, and household duties.

(e) *Clothing*

The dual function of clothing: protection and display. The interrelation between fashion, materials, and production methods.

(f) *Public health*

Sanitary conditions before and during the industrial revolution. The effects of sanitary reform. Food legislation. The eradication of infectious diseases. The growth of the system of medical inspection of school children. Legislation for maternity and child health. A description of diseases associated with poverty, malnutrition, and bad housing. The main public health problems affecting family and poverty today; the National Health Service and other services provided to meet them.

(g) *Social services available to the family*

Provision for sickness, unemployment and old age—including personal, public and voluntary services and agencies.

(h) *Consumer education and protection*

Legislation to protect the consumer. Advertising, marketing and the retail trades.

2. A course of study in *one* of the following topics:

Food science
Housing
Clothing
Textiles

(a) *Food science*

The study of the experimental investigation of food preparation and processing by a systematic course of lectures and appropriate laboratory work.

LECTURES

Chemical methods: pH, oxidation-reduction (vitamin C content, oils and fats). Chromatographic methods: plant pigments (fruit, vegetables), flavour chemistry. Surface chemistry: milk, eggs, mayonnaise. Physical methods: colour (meat, eggs, vegetables), texture (dough, meat, vegetables, jellies), temperature (baking, roasting), thermal capacity and heat transfer (canning, baking). Microscopy: sugars, ice cream, cereals. Electron microscopy: meat. Biological methods: biological value of proteins. Bacteriological methods: canning, fermentation, cheese, antibiotics. Enzymic methods: milk, fruits, vegetables. Organoleptic methods: taste panels. Statistical methods: assessment of results.

SET BOOK

Belle Lowe, *Experimental Cookery*, Wiley, New York, 4th edn., 1955.

LABORATORY WORK

Set experiments demonstrating the use of different methods of investigation, followed by a research project, in which one aspect will be followed up to a considerable depth and will be written up in the form of a dissertation. Emphasis will be laid on scientific assessment and on the implications of the work in school teaching. Topics include:
The comparison of different methods of food preparation through their effects on eating and nutritional qualities

The comparison of variations in raw material through their effects on eating and nutritional qualities
The performance of kitchen appliances
The changes undergone by foods in storage.

(b) *Housing*

The urban environment with particular reference to housing. (Lectures will be supplemented by tutorials and individual and field studies.)

(i) *Historical introduction*

Geographical factors affecting settlement and layout of buildings; the origins of urban society in Western Europe; medieval urban society within the feudal system; the evolution of early urban institutions; the fabric of the medieval town. Urban society and its forms of cultural expression, particularly during the Renaissance; Renaissance aesthetics and the design of town layouts and town buildings; the practical approach to high density living, with particular reference to London in the seventeenth and eighteenth centuries. The industrial revolution in Britain; population growth; the nature of factory production; the factories in the towns; communications and layouts in early industrial cities. The nature of capitalist enterprise; the historical evolution of the structure of capitalist society; the cultural values of the entrepreneur; architecture in the early nineteenth century and the solution to a new housing problem.

(ii) *Living in towns and cities*

The nature of the problem: the increase in population, the distribution of wealth and the housing needs, according to wealth. Town centres before and after the introduction of cheap public transport. The early suburbs. Increased pressure on services in city centres. The social problems of high density living and inadequate environment.

Attempts to solve the problem: local bye-laws and the finance of local housing improvements; national legislation and the beginnings of town planning; the implementation of the planning laws.

Housing and environment: the suburban ideal; the house and its setting; the suburban community; its social and aesthetic values. The layout of housing estates by private developers; the inadequacies of private housing developments. Local authorities and their approach to housing; local authority housing estates.

The new towns: garden cities; new town legislation; new towns in Britain; the problems of new towns.

(c) *Clothing*

The study of clothing in relation to the physical, social, and regional environment through a course of lectures and individual investigation.

LECTURES

Clothing in relation to physical environment: Comparison of clothing worn by primitive and non-urban peoples living in widely different climatic and social conditions.

Clothing in relation to social environment: Comparison of clothing worn in widely differing communities which have reached a high degree of civilisation and social complexity (preferably before the industrial revolution). Influence of climatic conditions; natural resources in fibres, dyes, etc.; available methods of production of textiles; influence of religious, civic, and social ceremonial; custom, fashion, and social aspiration; taste and aesthetic expression.

Clothing in relation to present-day regional environment: The North of England as an area of textile and clothing production, or comparison of two such areas in the United Kingdom. The natural fibres—wool, cotton, flax, silk—and the influence on clothing of the introduction of man-made fibres. Clothing as affected by mass production, modern methods of distribution, and mass communication; patterns of clothing purchasing and of fashion buying in different income groups.

INDIVIDUAL INVESTIGATION

The study of some chosen theme related to clothing and environment, involving a substantial personal investigation, possibly including some practical work, carried out in part through visits to museums, art galleries, mills, factories, etc. Evidence of such study will have to be presented in the form of notebooks, museum studies, portfolios of drawings and photographs, etc.

(d) *Textiles*

The study of textiles through a course of lectures and individual investigation, including practical work, with a view to the development of sensitivity and discrimination.

LECTURES

Threads: their formation, character and uses.
Fabrics: their formation, character and uses.
Fabric enrichment: in formation, and by dyeing, printing, embroidery, etc.
Fabric uses: in clothing and for household purposes.

INDIVIDUAL INVESTIGATION

The study of some chosen theme relating to textiles, involving a substantial personal investigation, including practical work in one or more of the areas covered by the lectures, carried out in part through visits to museums, art galleries, mills, factories, etc. Evidence of such study will have to be presented in the form of notebooks, museum studies, portfolios of drawings and photographs, etc.

FINAL EXAMINATION

1. *Two* written papers (each of 3 hours and common to the candidates of all colleges) on the sociological background to Home Economics

2. A written paper (3 hours and common to the candidates of all colleges) on *one* of four possible topics chosen by the candidate from:

(a) Food science (the laboratory record must be available for inspection)
(b) Housing
(c) Clothing (notebooks, portfolios, etc., must be available for inspection)
(d) Textiles (notebooks, portfolios, etc., must be available for inspection).

LINKING STUDY

Candidates will be required to present a long essay during the session which, where possible, will be linked to the dissertation or other individual study which will form part of the course in the candidate's optional study in part 2 of the scheme of study described above.

Language and Linguistics

ADDITIONAL COURSE REQUIREMENT

Students selecting this subject may not take the option "Language and communication" as one of their two options in Educational Studies.

SCHEME OF STUDY

1. General linguistics

2. Language learning and language teaching

3. *Either*

Contrastive Studies: the contrastive study of English with any one of the following languages:

French
German
Italian
Spanish

or

The Study of English: A stylistic study of spoken and written English, based on literary and non-literary material.

FINAL EXAMINATION

The final examination for Language and Linguistics as a main subject is set out below and in addition candidates will be required to submit a written record of practical work completed during the year:

1. A written paper (3 hours and common to candidates of all colleges) on general linguistics

2. A written paper (3 hours and common to candidates of all colleges) on language learning and language teaching

3. A written paper (3 hours) in *either* contrastive studies *or* the study of English as described in section 3 of the scheme of study

4. Candidates will be required (a) to attend *either* a practical test in the phonetics of English and/or a foreign language, *or* an oral examination in a foreign language; (b) to submit a folder of three pieces of course work, of which at least one must be a study of textual material.

LINKING STUDY

Candidates will be required to present an essay of not more than 8,000 words on a topic approved by the Board of the Faculty of Education.

Mathematics

SCHEME OF STUDY

1. Pure Mathematics:

Some or all of: mathematical logic; algebra; analysis of functions of a single real variable; analysis of functions of a single complex variable; analysis of functions of several real variables.

2. Applied and applicable mathematics:

Some or all of: differential equations; vector algebra and vector analysis; dynamics of a particle and of a rigid body; elementary fluid mechanics or electro-magnetism.

3. Two topics approved by the Board of the Faculty of Education:
one in pure mathematics and one in applied or applicable mathematics.

FINAL EXAMINATION

The final examination for Mathematics as a main subject will consist of:

1. A written paper (3 hours and common to the candidates of all colleges) on pure mathematics

2. A written paper (3 hours and common to the candidates of all colleges) on applied and applicable mathematics

3. *Two* papers (each of 3 hours): one paper on each of the two topics chosen as part 3 of the scheme of study described above.

LINKING STUDY

Students will study the pedagogy of mathematics, mathematical ideas and cognitive development in children; teaching methods and materials; curricula. Their study will be examined by a written paper (3 hours and common to the candidates of all colleges).

Music

SCHEME OF STUDY

1. History of music

Students will study a special period (or a special subject) approved by the Board of the Faculty of Education. For session 1971-72 this will be *Chamber music from 1750* to *1830*.

2. Written music

The primary object of this aspect of the syllabus is to test the ability of a student to write music in a simple yet musical style for performance by resources usually to be found in schools.

3. Practical music-making

In the course of the session the student will be required to:

(a) Prepare a varied repertoire of solo pieces

(b) Engage in the direction of, and performance in, ensembles of varying kinds

(c) Undertake daily instrumental practice.

FINAL EXAMINATION

1. A written paper (3 hours and common to the candidates of all colleges) on the history of music.

2. Each candidate will be required to choose (in consultation with his supervisor and before a specified date) whether to be examined under scheme A or scheme B:

SCHEME A

A paper, to be worked in the examination room, consisting of:

(i) An ensemble setting of a given melody (with or without voices in unison) in short score; and

(ii) the scoring of the above for a given selection of instruments.

SCHEME B

The submission to the examiners of a portfolio of original compositions.

3. Each candidate will be required:

(i) to play to the examiners at least *two* items from his repertoire of solo pieces—these items will have been selected by the examiners two months before the date of the examination

(ii) to play a piece (chosen by the examiners but unknown to the candidate) after thirty minutes' preparation.

An assessment of the candidate's overall achievement throughout the session in solo performance, ensemble performance and the direction of ensembles will also be presented to the examiners by his supervisors.

LINKING STUDY

Candidates will be required to present a long essay on a topic chosen in consultation with his supervisor and approved by the Board of the Faculty of Education.

Physical Education

ADDITIONAL COURSE REQUIREMENT

Students selecting certain options in this course will be required to take 'Sociological aspects of Education' as one of their two options in Educational Studies.

SCHEME OF STUDY

1. *Current ideas and issues in physical education*

The course will attempt to promote a comprehensive and integrated study of physical education:

(a) *Concepts*

The nature, aims and objectives of physical education.

(b) *Physical activity and human development*

Movement, play and personal development in early life
Movement behaviour; criteria and methods of observation
Principles and methods of movement therapy
Abnormalities in childhood with particular reference to movement; clumsiness, behaviour disturbance, backwardness
Fitness and health; childhood and adult life.

(c) *Curriculum study*

Inter-relationships of various elements in the physical education curriculum; relations with other subjects; environmental and historical influences; age and sex.
Physical recreation and present-day society; trends and probable development, facilities, present demands and future planning.

(d) *Comparative physical education*

Characteristic systems of physical education and sport in selected countries. International sport and physical education.

(e) *Evaluation*

The establishment of values and the assessment of standards in physical education:

Subjective assessments
Controlled observation
Objective measurement.

2. A course of study in *one* of the following:

Physiological and mechanical study of physical activity
Movement as an art form
Sociology of physical education*
The acquisition of skill.

(a) *Physiological and mechanical study of physical activity*

A study of the structure and functioning of the human body in its response to exercise and the environment.

Physiology

(i) Body composition and function with particular reference to the physiology of skeletal muscle and its nervous control in physical activity

(ii) Circulo-respiratory function, and the measurement of human performance in physical exercise and sport

(iii) Regulation and adaptation
The physiological adjustment of the human body to its activity and its environment

Mechanics

Mass, inertia, weight
Rectilinear and angular motion
Acceleration
Distance-time, velocity-time, acceleration-time curves
Vectors, scalars
Centre of gravity
Laws of motion
Force, impulse, power, energy, work
Friction
Projectiles
Linear and angular momentum
Moment of inertia

* Students selecting this course must take the option 'Sociological aspects of Education' as one of their two options in Educational Studies.

Movement Study

A study of the mechanics and kinesiology of human physical activities such as walking, running, jumping, throwing, lifting, striking and swimming in which use will be made of various methods of recording, for example, ciné and still photography, stroboscopy, electromyography and force recording equipment. A comparative study of the movement of animals

(b) *Movement as an art form*

(i) *Aesthetics*

A study of concepts related to theories of art, with specific reference to movement as an art form

(ii) *Movement in relation to other art media*

A comparative overview of the affinity with and distinctions between movement and other media

(iii) *The cultural significance of dance*

An historical perspective of the place and function of dance in society

(iv) *Movement study*

A general appraisal of theories concerning movement as an art form with specific reference to either the European or the American approach
An inquiry into the problems encountered in recording movement, with specific reference to major systems of notation and the use of film

(v) *Composition*

A theoretical and practical study of the elements of dance composition: concept and abstraction of theme, embodiment of theme in form, through movement and related media.

(c) *Sociology of physical education*

ADDITIONAL COURSE REQUIREMENT

Students selecting this option will be required to take 'Sociological aspects of Education' as one of their two options in Educational Studies.

(i) *The conceptual framework and basic issues*

The changing emphases on such terms as:
Play, games and sport
Leisure and work
Physical education, recreation and physical culture
Dance and drama
Amateurism and professionalism.

(ii) *The patterns of participation*

The socio-economic analysis of patterns of participation at national, regional and local level.

(iii) *Group dynamics: achievement, role and status*

The part played by organised physical activity in the formation, dissolution and structuring of formal and informal groups
Interaction processes and norms within groups
Status and role behaviour derived from achievement.

(iv) *Values*

The relationship between organised physical activity and the value systems of individual children, physical education teachers, educational institutions, governing bodies of sports, local and national communities
Sport and international prestige
Meritocracy and pluralism in school and post-school societies
Value systems of British sports, games and leisure pursuits
The influences of mass media upon physical activity
Competition and co-operation.

(v) *The physical education teacher in schools and society*

Status, role, background, recruitment and training.

(d) *The acquisition of skill*

(i) *Introduction*

Learning theories and skill acquisition.

(ii) *Characteristics of skilled behaviour*

Maturation, learning and ageing in skilled behaviour
Perceptual, central and effector aspects of skilled behaviour
Classification and models of skilled behaviour
Effect of personality

(iii) *Measurement of skill*

Assessment of perceptual-motor abilities
Learning and performance: performance curves
Assessment of motor impairment
Specific standard skill tests
Use of skill tests in selection—school, industry, forces etc.

(iv) *Training in skilled behaviour*

A survey of experimental findings and field observations on motor skill together with practical laboratory and field work arranged to illustrate a variety of experimental designs and analyses. The survey will cover the following topics, and practical work will involve selected examples:

Transfer of training—general and specific
Knowledge of results
Guidance
Massed and distributed practice
Visual-motor co-ordination
Sensory/perceptual deprivation
Training on a novel task
Part/whole learning
Short and long term memory—factors affecting long term retention of skill
Selective attention
Reaction and movement times
Tracking behaviour
Motivation

(v) *Psychopathology of skilled behaviour*

Gross pathological conditions
The concept of motor impairment
Effects of stress, drugs and alcohol on skilled performance

(vi) *Applications*

Applications of theoretical suggestions and experimental findings to the problems of teaching and learning motor skills with particular reference to individual differences.

FINAL EXAMINATION

1. A written paper (3 hours and common to the candidates of all colleges) on current ideas and issues in physical education.

2. A written paper (3 hours and common to the candidates of all colleges) on *one* of four possible topics chosen from:

Physiological and mechanical study of physical activity
Movement as an art form
Sociology of physical education
The acquisition of skill.

3. A practical examination * within the range of the topic chosen by the candidate in part 2 of the scheme of study as described above.

LINKING STUDY

Candidates will be required to present an essay of not more than 8,000 words during the session on a subject (approved by the Board of the Faculty of Education) concerned with the physical education of the school child.

Physical Sciences

SCHEME OF STUDY

1. Atoms and molecules in isolation

(a) Quantum mechanical description of H-like atoms, valence bond and molecular orbital treatment of diatomic molecules. Coulombic, exchange and overlap integrals. Comparison of treatments. Poly-atomic molecules—hybridisation of orbitals, delocalisation of electrons.

(b) Spectroscopy. Atomic spectra—Russell-Saunders and j-j coupling. Zeeman and Stark effects. Molecular spectra of simple molecules—infra-red and micro-wave spectra of di- and tri-atomic molecules. Qualitative treatment of characteristic frequencies of atomic groupings in molecules in infra-red, visible and ultra-violet spectroscopy.

2. Atoms and molecules in aggregation

(a) Statistical mechanics—general principles. Fermi-Dirac and Bose-Einstein statistics. Degeneracy of electrons in solids. The statistical interpretation of the second and third laws of thermodynamics.

(b) Crystallography and quantum mechanics of solids. Crystal diffraction of simple structures. Fourier transformation and the reciprocal lattice. Momentum space, Kronig-Penney model. Bloch functions in one dimension.

* For Sociology of physical education the examination will consist of an additional written paper (3 hours and common to candidates of all colleges) in lieu of the practical examination.

(c) Theories of chemical kinetics, especially the transition state theory of reactions.

(d) Application of thermodynamics e.g. extraction of metals.

3. A course of study in *two* of the following options:

(a) *Properties of molecules*

Topics chosen to illustrate the subject matter of Part 1 of the scheme of study described above. Possible topics include boron hydrides, phospho-nitrilic compounds, silicates, macromolecules, chemistry of the less common metals with special reference to the elements of the second and third transition series, chemistry of the rare earth and transuranic elements, non-stoicheometric compounds.

(b) *Brillouin zones and energy bands*

Either magnetic properties
or transport properties
or optical properties.

(c) *Special relativity*

Frames of reference, inertial frames
The principle of special relativity
Lorentz transformation—derivations and consequences
Minkowski 4-D geometry.

Laboratory work will be taken into consideration in deciding the class of the degree.

FINAL EXAMINATION

The final examination for Physical Sciences as a main subject will consist of:

1. One written paper (3 hours and common to the candidates of all colleges) on atoms and molecules in isolation

2. One written paper (3 hours and common to the candidates of all colleges) on atoms and molecules in aggregation

3. One written paper (3 hours and common to the candidates of all colleges) on the two options chosen by candidates under Part 3 of the scheme of study described above.

LINKING STUDY

Either a long essay of not more than 8,000 words on some aspect of physical science in education

Or the development and construction of apparatus suitable for the science curriculum in schools.

Physics

ADDITIONAL COURSE REQUIREMENT

Students selecting this subject should have reached a standard in mathematics equivalent to that which can reasonably be expected after a study of mathematics in the University for one year beyond the Advanced Level of the GCE examination.

SCHEME OF STUDY

1. Quantum theory and wave mechanics

Statistical systems: Maxwell-Boltzmann statistics, thermal radiation and the Planck hypothesis. Specific heats of matter in bulk.
Quantized systems: The Rutherford atom and the Bohr postulates. The de Broglie wavelength. Development of the Schrödinger equation, eigenfunctions, normalization. Solution of the Schrödinger equation for the hydrogen atom, significance of quantum numbers. Interpretation of the wave function. Electron spin and the Pauli exclusion principle. The uncertainty principle. Spatial quantization, the Stern-Gerlach experiment.

2. Physics of the solid state

Crystal symmetry: Types of crystal binding, the Bragg Law, experimental methods for X-ray and electron diffraction. Thermal properties; Einstein and Debye models; conductivity and expansion. Free electrons: Conductivity, Ohm's Law and the Wiedemann-Franz ratio. Fermi-Dirac statistics and consequences. Band theory of solids; metals and non-metals. Dia- and para-magnetism, ferromagnetism and ferromagnetic domains. Transparency of dielectrics.
Strength of solids: Strengths of perfect and imperfect crystals, dislocations and crystal growth, strengthening effects of high and low angle grain boundaries, structures and properties of composite materials.

3. Alternating current and semiconductor devices

Basic principles of a.c. circuits, analysis in the J-notation. Band theory of intrinsic and extrinsic semi-conductors. Hall effect. Electrical behaviour of junctions, band model of transition region. Diodes, the pnp junction transistor. Features of basic transistor circuits, transistor amplifiers.

FINAL EXAMINATION

1. *Three* written papers (each of 3 hours and common to the candidates of all colleges):

(a) Quantum theory of wave mechanics

(b) Physics of the solid state

(c) Alternating current and semiconductor devices.

2. Each candidate will be required to submit *either* one dissertation of not more than 8,000 words *or* three dissertations of not more than 3,000 words each on a topic or topics related to an experimental project or projects undertaken during the session.

LINKING STUDY

Candidates will be required to present *one* essay (or report) of not more than 6,000 words or *two* essays (or reports) of not more than 3,500 words each. The topic(s) chosen should normally, but not necessarily, arise from aspects of physics education discussed during a series of seminars during the first term of the course.

Psychology

SCHEME OF STUDY

1. Psychometrics with special reference to counselling and vocational guidance

(a) The theory of psychological tests, reliability, validity and development with regard to (a) assessment screening and selection of personnel, (b) personnel placement with regard to job satisfaction and achievement, (c) vocational choice, in relation to personality variables

(b) Counselling techniques

(c) The study of guidance services and opportunities.

2. Social psychology

(a) The study of group behaviour: factors influencing this behaviour, characteristics of group behaviour, influences of the group upon the individual

(b) Theory and findings on the psychological processes involved in the formation, functioning and dissolution of face-to-face groups

(c) The study of the structure and function of attitudes and beliefs, methods of attitude change

(d) Study of the relationship between culture and personality.

3. Design and conduct of psychological investigation.

4. An individual investigation leading to the presentation of a long essay.

FINAL EXAMINATION

1. A written paper (3 hours and common to candidates of all colleges) on psychometrics with special reference to counselling and vocational guidance.

2. A written paper (3 hours and common to candidates of all colleges) on social psychology.

3. A written paper (3 hours and common to candidates of all colleges) on design and conduct of psychological investigation.

4. Each candidate will be required to submit a long essay of not more than 5,000 words on the investigation undertaken during the session.

LINKING STUDY

A long essay of not more than 8,000 words on a selected aspect of child development.

Rural Science

SCHEME OF STUDY

This course (for students from all participating colleges) is aimed at deepening the understanding of the preceding three years' work for the Certificate in Education.

1. Natural resources of the countryside and their utilisation

(a) *Populations*

The structure of communities: producers, consumers and decomposers
Population properties: growth rates, density, structure, dispersal, fluctuation, regulation
Populations in agriculture, horticulture and forestry.
Applications in pest and disease control
Human population growth and regulation

(b) *Natural resources*

Renewable and non-renewable resources
Energy in ecosystems: the radiation environment: food chains and energy flow patterns
Mineral circulation and conservation
Water conservation and use
Growth in living systems: limiting factors. Productivity of natural and cultivated ecosystems. Pollution. Resource management
Nutritional requirements of man and his requirements for natural products
Methods of increasing food production. Plant and livestock improvements: history of plant and animal breeding: methods of selection and breeding. Alterations to environment and their effects upon ecosystems
Ecological and market factors determining the agriculture of selected areas.

2. A special course of study in an approved area. For session 1971-72 the area studied will be one of the following:
Specific behaviour in relation to the husbandry and management of animals.*
Experimentation.†

3. An individual investigation (approved by the Board of the Faculty of Education) designed to test the student's ability to search literature and recognise significant facts, to think constructively and critically and to present an argument clearly and logically; and in addition to test his powers of observation and practical skill.

FINAL EXAMINATION

1. A written paper (3 hours and common to the candidates of all colleges) on the three themes recommended for study, i.e. Metabolism, with special reference to plant and animal nutrition and development; Inheritance, with special reference to plant and animal breeding; Ecology of habitats dominated by man.

2. A written paper (3 hours) on the special study which will form part 2 of the scheme of study as outlined above.

3. A short dissertation presenting the results of the candidate's individual investigations described above as part 3 of the scheme of study.

4. At the discretion of the examiners the candidate may be asked to attend an oral examination.

* This course will be offered at City of Leeds and Carnegie College.
† This course will be offered at St. John's College.

LINKING STUDY

Candidates will be required to present an essay of not more than 8,000 words during the session on a subject concerned with the teaching or learning of Rural Science—the title to be approved by the Board of the Faculty of Education. Some examples might be:

1. The requirements for the teaching of rural studies in schools in both rural and urban areas

2. The use of programmes in the learning of Rural Science illustrated by a simple programme devised by the candidate for the teaching of an appropriate topic within the subject

3. Problems in the examination of Rural Science courses, including the designing of a set of objective tests for the examination of an appropriate topic in Rural Science.

The essay may, if desired, incorporate the results of a survey or practical exercise carried out by the candidate and examples (2) and (3) above would in fact involve the carrying out of a short exercise and a survey.

Social Studies

ADDITIONAL COURSE REQUIREMENT

All students selecting this subject *must* take the option 'Sociological aspects of Education' as one of their two options in Educational Studies.

SCHEME OF STUDY

1. Industrial society

The study of the impact of industrialisation on major social institutions, processes and groups treated comparatively. Special attention will be given to the following:

The family and the community
Bureaucracy and complex organizations
Industrial organization
Agencies of social control
Political structures
Social stratification.

These topics will be treated both descriptively and with reference to the major analytical writings in each field.

2. The social structure of modern Britain

A study of the evolution of the social structure of Great Britain in the nineteenth and twentieth centuries treated historically and analytically. Special attention will be given to the following topics:

(a) *Demography*

Fertility, mortality, migration
Marriage age and rates, family size

(b) *The family*

Changing structure and functions

(c) *Urbanisation*

(d) *Social stratification*

The class system in Britain
Social mobility
Income and property distribution
Poverty, health, security: the Welfare State
Race relations

(e) *The industrial structure*

Ownership, control and power
Management
Labour relations
The impact of new processes and technologies

(f) *The political structure*

Political behaviour
Political organisation and power
Political ideology

(g) *Social control*

Law, ethics and morality
Religion and secularisation
The effects of the mass media
Social deviance and disorganisation.

3. Methods of social investigation:

(a) *The sources of data on social conditions in Great Britain: official and unofficial*

The social survey movement
The contributions of Charles Booth, Seebohm Rowntree and their successors.

(b) *Elementary statistical methods including the calculation of averages and measures of dispersion and simple measures of correlation*

Elementary theory of sampling (mathematical proofs will not be required)
Use of sampling methods in social investigations
Problems of interviewing and data collection
Attitude scales and scale analysis

(c) *Design and analysis of social investigations*

The selection and definition of problems
Selection of indices
Hypotheses and theories.

FINAL EXAMINATION

Three written papers (each of 3 hours and common to the candidates of all colleges):

1. Industrial society
2. The social structure of modern Britain
3. Methods of social investigation.

LINKING STUDY

A written paper* (3 hours long and common to the candidates of all colleges) on *one* of six possible topics chosen by the candidates from:

Juvenile delinquency
Special groups
Sociology of the professions
The sociology of adolescence
The sociology of religion
Sociology of the mass media.

With the approval of the Board of the Faculty of Education, other special topics may be added from time to time.

Spanish

SCHEME OF STUDY

Special emphasis will be placed on particular aspects of Spanish Literature and Civilization not studied in detail during the Certificate course.

1. Literature and Civilization

   (a) Theme: "*El Catolicismo en España*"

   Suggested reading:

   Santa Teresa de Jesus: *Libro de su vida*
   San Juan de la Cruz: *Cántico espiritual*
   Luis de Granada: *Introducción al Simbolo de la Fe*
   Madre Agreda: *Cartas*
   Donoso Cortes: *Ensayo sobre el catolicismo, el liberalismo y el socialismo*
   Ganivet: *Idearium español*
   Maeztu: *Defensa de la hispanidad*

   (b) *A synoptic survey of Spanish political thought*

2. Written language

Advanced translation into and from Spanish. Written composition on contemporary problems.

* In exceptional cases, with the permission of the Board of the Faculty of Education, a student may be permitted to substitute for this examination paper an extended essay on a project undertaken by himself which includes original data collected by him in an educational institution.

3. Oral language

(a) Regular practice in oral composition and oral translation, using tape recorder.

(b) Students will be encouraged to go to Spain during the vacation at the end of the Certificate course before entering the fourth year.

FINAL EXAMINATION

1. Three written papers, common to the candidates of all colleges:
One 3-hour paper comprising translations into Spanish and an essay in Spanish
One 1½-hour paper, translation from Spanish into English
One 1½-hour paper, written aural comprehension test.

2. A written paper (3 hours long and common to candidates of all colleges) on modern Spanish society. Candidates will be expected to show knowledge of Spanish society since 1808, with particular reference to the problems of Spain since 1939. Candidates will also be given an opportunity to show knowledge of the geography of Spain and the development of the arts in Spain in the 20th century.

3. *Either*

A written paper (3 hours long and common to the candidates of all colleges) on Spanish literature.

A list of set texts will be provided by each college for its students.

Or (with the agreement of the candidate's college)

A long essay of between 8,000 and 9,000 words, in either English or Spanish, on a topic approved by the Board of the Faculty of Education.

4. An oral examination in Spanish.

LINKING STUDY

Candidates will be required to make a study of a topic, approved by the Board of the Faculty of Education, which would cover the individual candidate's investigations into modern teaching techniques in relation to Spanish.

Theology

SCHEME OF STUDY

1. Christian theology

A general study of the history of Christian theology based on the Bible and texts selected from the following (one text to be chosen from each selection):

A (i) Origen: *On First Principles*
(ii) Athanasius: *De Incarnatione*
(iii) *The Christology of the Later Fathers* (ed. E. R. Hardy, Library of Christian Classics)
(iv) Augustine: *Confessions*

B (v) Anselm: *Cur Deus Homo*
(vi) Aquinas: *Nature and Grace* (Library of Christian Classics)
(vii) Martin Luther: *Lectures on Romans* (Library of Christian Classics)
(viii) J. Calvin: *Institutes of the Christian Religion*

C (ix) F. D. Schleiermacher: *The Christian Faith*
(x) K. Barth: *Church Dogmatics*, II.2 § 32-35.
(xi) P. Tillich: *Systematic Theology*
(xii) Decrees and documents of the Councils of Trent, Vatican I and Vatican II.
(xiii) C. Gore: *The Reconstruction of Belief*
(xiv) P. T. Forsyth: *The Person and Place of Jesus Christ*
The Justification of God.

2. A course of study in *one* of the following five topics:

The history of Christianity in a specified period (For session 1971-72 this will be *either:* The Church in the Roman Empire to A.D. 500; *or* Christianity in the West in the nineteenth and twentieth centuries)

Local church history

Comparative religion

Philosophy of religion

Ethics.

FINAL EXAMINATION

1. *Two* written papers (each of 3 hours and common to the candidates of all colleges) on Christian theology: (a) the Bible; (b) the texts selected from section 1 above.

2. A written paper* (3 hours long and common to the candidates of all colleges) on the topic chosen by the candidate under part 2 of the scheme of study outlined above.

LINKING STUDY

Candidates will be required to present an essay of not more than 8,000 words during the session on topics† relating to some aspect of religious education.

* In local church history candidates may, with the approval of the Board of the Faculty of Education, submit a long essay in lieu of the written examination.

† To be approved by the Board of the Faculty of Education.

The Degree of Master of Education

The degree of Master of Education is governed by Ordinance VIII, articles 5-9, and by the subsequent regulations set out below:

ORDINANCE VIII, ARTICLES 5-9

5. The degree of Master of Education may be conferred, upon payment of the proper fee, on candidates who have fulfilled the requirements set out in the following paragraphs and who have passed the required examinations.

6. Candidates shall be graduates of the University of Leeds or of another approved university, and shall have obtained either a Graduate Certificate in Education of this or of another approved university, or a qualification which is approved by the Senate as equivalent; provided that, in exceptional circumstances, the Senate may admit as candidates persons who do not fulfil both of these conditions; such persons shall satisfy the Senate that their attainments are adequate and that they are qualified to pursue a course of advanced study and research.

7. Applicants for admission under the preceding paragraph who are not graduates, and applicants who have not obtained a Graduate Certificate in Education or its equivalent, shall present themselves for examination—written and, if necessary, oral; such applicants will be permitted to enter the University and to become candidates for the degree of Master of Education only if they have obtained a satisfactory result in the examination; and if they are not graduates, they will also be required to fulfil the following conditions:

(a) To be registered as students of the University

(b) To pursue an approved course of study under the supervision of the head of the Department of Education

(c) To attend such courses of lectures at the University as the Senate may require.

8. Every candidate shall, since attaining qualified teacher status, have obtained not less than two years' experience either in approved full-time service as a teacher in a school or in some other approved educational work.

9. Candidates for the degree of Master of Education who are graduates shall pursue a course of full-time study extending over not less than two years or a course of part-time study extending over not less than three years. Candidates who are not graduates shall pursue a course of study extending over not less than three academic years.

RELEVANT REGULATIONS MADE UNDER ORDINANCE VIII

6. All candidates must undertake studies in education which shall include:

(a) Theory of education, educational psychology and research methods in education, each for two years.

(b) Two of the following, one in the first year of the course and one in the second year, the subjects to be selected in consultation with the head of the Department of Education:

(i) History of education
(ii) Educational administration
(iii) Sociology of education
(iv) Comparative education
(v) Curriculum studies.

Not all the subjects in this list will necessarily be available in any one year, and new subjects may be added from time to time.

7. All candidates must attend for tuition in the first and second years of the course. At the end of each year they will be required to present themselves for examination on the subjects of their study.

The examination at the end of the first year will consist of one paper in each of the following: Theory of Education and one other subject; together with such other tests—written or oral—as may be prescribed by the examiners from time to time. In addition, the course on research methods in education will be examined by continuous assessment throughout the first year.

The examination at the end of the second year will consist of one paper on each of the following: Theory of education, educational psychology, and one other subject; together with such other tests—written or oral—as may be prescribed by the examiners from time to time.

No candidate who fails the examination at the end of the first year will be allowed to proceed with the course; and no part-time candidate who fails the examination at the end of the second year will be allowed to proceed to the dissertation.

All candidates will be required in addition to prepare a dissertation upon a subject approved by the Senate, and they must also present themselves for examination—written and, if necessary, oral—on the subject of the dissertation.

Full-time students will prepare this dissertation during the first two years of the course. Part-time students will normally prepare the dissertation after passing the examination at the end of the second year of the course.

In the award of a degree, consideration will be given to the candidate's results in the first-year and second-year examinations, to the dissertation and to his performance in the examination on the subject of the dissertation.

8. Persons who are not graduates and who apply to become candidates for the degree must:

(a) present themselves for interview by the appropriate committee and subsequently take an examination designed as a test of fitness to proceed to study for a higher degree; this will not necessarily be confined to the subject in which the candidate wishes to proceed and will consist of:

(i) a total of at least two written papers in not less than two separate subjects approved by the Senate
(ii) an essay
(iii) an oral examination.

It shall be in the discretion of the committee to exempt an applicant from the oral examination.

(b) attend for supervised study in the University in the first and second years of their course for a total of not less than four hours a week. In special cases the above attendance requirements may be modified by the Board on the recommendation of the standing committee.

9. The examination for graduates who have not obtained a Graduate Certificate in Education or an equivalent qualification and who wish to become candidates for the degree of Master of Education will include an essay paper and an oral examination.

10. Not less than three months before the completion of his course the candidate must make application to the Registrar to be examined. Thereafter, but not more than six weeks before the end of the course, the candidate must submit two copies of a dissertation each of which must be accompanied by a short abstract to be bound at the front of the dissertation. Dissertations must be bound in a standard form, particulars of which may be obtained from the Registrar. The top copy (not the first carbon copy) of the dissertation approved for the degree will be retained in the University Library.

Normally there will be a period of six to eight weeks between the submission of a dissertation and the announcement of the result of the examination.

11. The names of candidates who have satisfied the examiners shall be arranged in alphabetical order, and distinction may be awarded for work of exceptional merit at the discretion of the examiners.

(Candidates are advised, before making application to the Registrar for acceptance for the degree, to consult the head of the Department of Education. The latest date of entry and payment of fee for all candidates for the degree of Master of Education examination in June is 30 January. Candidates presenting their dissertation must send it in not later than 1 May. Candidates should provide at least two copies of their dissertation.)

The Degree of Master of Philosophy

The degree of Master of Philosophy is governed by Ordinance VIII, articles 10-20, and by the subsequent regulations set out below:

ORDINANCE VIII, ARTICLES 10-20

10. The degree of Master of Philosophy may be conferred, on payment of the proper fee, and on presentation of a thesis, on candidates who have completed approved research (in addition to which courses of advanced study formally examined may be prescribed by the Senate) and who thereafter satisfy the examiners for the degree; subject to the fulfilment of the conditions laid down in the following articles and in the regulations governing the award of the degree.

11. Except as provided in subsequent sections of this Ordinance, the period of full-time or, where appropriate, part-time study will normally be not less than two academic years.

12. Graduates of the University of Leeds may present themselves for the examination for the degree of M.Phil. in an approved subject without being required to attend the University, or to study under the supervision of a member of staff or to pay fees other than the examination fee. Such candidates are, however, required to consult fully with the appropriate head of department on their subject of research and programme of work. In all other respects they will be required to satisfy the conditions as laid down in the Ordinance and the regulations governing the award of the degree.*

CANDIDATES IN THE FACULTIES OF ARTS, EDUCATION AND ECONOMIC & SOCIAL STUDIES

13. Graduates of any approved university may be accepted as candidates for the degree of M.Phil. and shall proceed to the degree by presenting a thesis satisfactory to the Senate on a subject approved by the appropriate committee and, where the approved work for the degree includes a substantial element of advanced study, by satisfying the examiners in the written examinations thereon; provided that, with the approval of the Senate:

(a) graduates who wish to proceed to the degree in a subject not studied as a substantial part of the course for their first degree may be required, before acceptance as candidates, to reach a satisfactory standard in a preliminary examination in that subject

(b) graduates who have not reached honours standard in their first degree examination may be required to pass a qualifying examination in a subject prescribed by the appropriate committee not less than one year after the date of their acceptance.

14. In exceptional circumstances persons who are not graduates may, if they satisfy the Senate that their educational attainments and experience qualify them to undertake a course of advanced study and research prescribed for the degree of M.Phil., be accepted as candidates for the degree and shall present themselves for the degree examination after not less than three academic years' study on an approved course. Such candidates must first reach a satisfactory standard in a special preliminary examination and, thereafter, may proceed only if:

(a) at the end of the first year they have given evidence to the Senate that their work has been satisfactory; and

* Such candidates are advised to maintain regular contact with their department, which should be kept informed about the progress of their studies.

(b) at the end of their second year they have passed a general examination in the subject of their study.

15. In approved cases, candidates wishing to proceed to the degree after being awarded a post-graduate diploma of the University *with distinction* in a relevant subject, may count the period of the diploma course towards the minimum period of study for the degree and thus present themselves for examination for the degree after one further calendar year of study.

CANDIDATES IN THE FACULTIES OF SCIENCE, APPLIED SCIENCE AND MEDICINE

16. Graduates of any approved university and of any faculty in this University, persons who have been awarded an approved diploma in applied science of this University in a subject regarded by the Senate as an appropriate preparation for the proposed research, or persons whose qualifications by study in an approved institution have been accepted by the Senate as equivalent to or in lieu of a degree, may be accepted as candidates for the degree of M.Phil. and shall fulfil the conditions laid down in the following articles to qualify for the award of the degree.

17. Candidates shall undertake research work, normally extending over not less than two academic years, under supervision in the University on a subject approved by the appropriate committee and shall thereafter present to the Senate a thesis embodying the results of their research. They shall also attend such formal courses of instruction as may be prescribed by the head of the department concerned.

18. (a) Candidates who have:

(i) graduated as Bachelors of Science with first- or second-class honours or who hold qualifications which are deemed equivalent or

(ii) been awarded an approved postgraduate diploma in a subject regarded by the Senate as an appropriate preparation for the proposed research and achieved a sufficiently high standard in the examination or

(iii) obtained qualifications by study in an approved institution accepted by the Senate on the recommendation of the appropriate committee as equivalent to a first- or second-class honours degree,

may be allowed to present themselves for the degree before the expiry of two academic years provided that they have prosecuted research under supervision in the University for a period of not less than one calendar year and made satisfactory progress. Although the award of the degree may be approved at an earlier date it may not be conferred until a period of two academic years has elapsed from the date of the commencement of the candidate's study;

(b) Candidates qualified under (i) to (iii) in 18(a) above and who have industrial or other experience of special relevance to their subject of research may, on the recommendation of the head of the department concerned and of the appropriate committee, receive the degree before the expiry of two academic years provided that they have prosecuted research under supervision in the University for a period of not less than one calendar year and thereafter satisfied the examiners.

19. Persons qualified under article 16 who are:

(a) members of the full-time teaching staff of any institution approved in each case by the Senate for this purpose or

(b) members of the staff of industrial or scientific establishments geographically near to the University and approved by the Senate in each case for this purpose

shall be required to undertake approved research under supervision, normally by a member of the staff of the University, both at their place of work and in the University for a total period extending over not less than nine terms.

20. In exceptional cases, persons who are not graduates but who have satisfied the Senate that their educational attainments and experience are adequate may be accepted as candidates for the degree with such period of full-time or part-time study as may be prescribed in each case.

RELEVANT REGULATIONS MADE UNDER ORDINANCE VIII

ALL CANDIDATES

12. Except in the case of graduates of the University accepted as candidates under the provisions of article 12 of Ordinance VIII, all candidates for the degree of M.Phil. shall be required:

(a) to be registered as students of the University

(b) to undertake an approved course of research or combination of research and advanced study, as prescribed by the appropriate committee, under the supervision of the head of the department concerned or any other person nominated for this purpose by the University

(c) to give evidence of satisfactory progress by such means as may be prescribed by heads of departments

(d) to satisfy the examiners for the degree.

13. A candidate must not submit as his thesis one for which another degree or similar qualification has been awarded, or which is under consideration for such an award; but he will not be precluded from incorporating in his thesis any part of such work provided that he states his wish to do so at the time of his application for acceptance as a candidate and in the thesis itself indicates the part of the work so incorporated.

14. In all subjects the examination for the degree may, at the discretion of the examiners, include an oral examination and such other tests as may be deemed appropriate.

15. Not less than three months before the completion of his course the candidate must make application to the Registrar to be examined. Thereafter, but not more than six weeks before the end of the course, the candidate must submit two copies of a thesis each containing a short abstract which should be bound at the front of the thesis. Theses must be bound in a standard form, particulars of which may be obtained from the Registrar. A copy of the thesis approved for the degree will be retained in the University Library.

Normally there will be a period of six to eight weeks between the submission of the thesis and the announcement of the result of the examination.

16. The names of candidates who have satisfied the examiners shall be arranged in alphabetical order, and distinction may be awarded for work of exceptional merit.

CANDIDATES IN THE FACULTIES OF ARTS, EDUCATION AND ECONOMIC & SOCIAL STUDIES

17. Candidates undertaking advanced study as part of their course for the degree of M.Phil. must pass the prescribed examinations. (The examination syllabuses are set out in the prospectus, *Faculty of Arts*.)

18. Persons who are not graduates applying for acceptance of the degree under article 14 must:

(a) present themselves for interview by the appropriate committee and, if required, subsequently take an examination to establish their fitness to proceed to study for the degree. Such an examination may not be confined to the subject in which the candidate wishes to proceed

(b) attend for supervised study in the University for such periods as may be prescribed by the appropriate committee in each case.*

19. Graduates of other universities accepted under article 13 must attend in the University in the first and second years of study for frequent consultation with the head of the department or supervisor to the satisfaction of the appropriate committee.

CANDIDATES IN THE FACULTIES OF SCIENCE, APPLIED SCIENCE AND MEDICINE

20. Candidates accepted under the provisions of articles 19 and 20 shall be required:

(a) to be registered as students of the University

(b) to maintain frequent personal contact with their supervisors and to attend in the University for periods as specified in individual cases by the appropriate committee

(c) to give evidence by examination or otherwise to the head of department concerned not later than the end of the third term of their period of study that their progress has been satisfactory.

* Normally attendance will be on at least two days a week for a total of not less than six hours a week during the first year; and in subsequent years on at least two days a week for a total of not less than four hours a week, unless in special cases the Senate has agreed to modify these attendance requirements.

The Degree of Doctor of Philosophy

The degree of Doctor of Philosophy is governed by Ordinance VIII, articles 21-28 and by the subsequent regulations set out below:

ORDINANCE VIII, ARTICLES 21-28

21. The degree of Doctor of Philosophy may be conferred, on payment of the appropriate fee and on presentation of a thesis, subject to the conditions in the following articles and in the regulations governing the award of the degree:

(a) on persons who are registered graduates of the University of Leeds or graduates of an approved university

(b) on the holder of a recognised degree awarded as a result of study at an approved institution other than a university; or a diploma awarded by such an institution not empowered to confer degrees; or of any other qualification approved for this purpose by the Senate; provided that the course of study in the subject for which the degree has been awarded has extended over not less than three years of full-time study and is acceptable to the Senate as being an adequate preparation for the research proposed

(c) in exceptional circumstances, on the holder of a diploma of the University of Leeds, provided that the Senate is satisfied regarding the course of study towards such diploma and the standard attained by the candidate in the examination for the diploma.

22. A candidate applying for acceptance for the degree under the provisions of paragraphs (b) and (c) of article 21 will be required to present to the Senate evidence of a satisfactory general education; and in the absence of such evidence may be required to pass an examination to be prescribed in each case by the Senate, before his acceptance.

23. Except as may hereinafter be provided, all candidates for the degree of Doctor of Philosophy are required to pursue for not less than three academic years (of which not less than two calendar years must be of full-time study in residence at the University) an approved course of advanced study and research under such supervision and direction as may be prescribed.

24. In special circumstances, candidates may be permitted to devote such periods as may be deemed advisable by the Senate to full-time study and research in other approved universities or institutions, or in an approved scientific or industrial establishment, while remaining under the direction of the University or of persons nominated by the University, provided that they spend in the University not less than one calendar year or an equivalent period prescribed by the Senate.

(Persons working in approved scientific or industrial establishments will be eligible for acceptance for the degree of Doctor of Philosophy under the provisions of article 24 only if the terms of their employment permit them to devote their whole time to their research for the degree; and will normally be expected to be in full-time residence at the University for at least the first two terms of their course, when they may be required to attend formal instruction at an advanced level. The Senate reserves the right to extend the overall minimum period of study of three academic years in such cases.)

25. Normally, applicants for acceptance as candidates for the degree of Doctor of Philosophy under the provisions of article 21 above will, in the first instance, either be required to apply for acceptance as candidates for the degree of Master of Philosophy or be asked to register as research students, and may, with the approval of the appropriate committee, be accepted as candidates for the degree of Doctor of Philosophy on completion of their first year of study to the satisfaction of the head of the department concerned. The Senate may waive this requirement in the case of:

(a) persons already holding a higher degree of an approved university or institution awarded on completion of a course of advanced study or research undertaken after the award of a first degree

(b) persons whose academic qualifications reach the required standard and who have, in addition, industrial or other experience of special relevance to their proposed subject of research, and who are recommended by the head of the department concerned as being suitably qualified for direct acceptance for the degree.

26. Candidates in the Faculties of Science, Applied Science and Medicine whose academic qualifications reach the required standard and who have industrial or other experience of special relevance to the proposed subject of research or who have made outstanding progress in their studies may, on the recommendation of the head of the department concerned and with the approval of the appropriate committee, present themselves for the examination for the degree after a minimum of two calendar years of full-time study. Such candidates shall not be eligible to have the degree conferred upon them (except as specified in article 27) until the expiry of the full minimum period of study of three academic years.

27. The Senate shall be empowered:

(a) to reduce, in exceptional cases, the minimum period of three academic years of full-time study for the degree of Doctor of Philosophy in cases where the academic qualifications of a candidate or the excellence of his work for the degree merit such a reduction, provided that no candidate may have the degree conferred upon him before the completion of two calendar years of full-time study, or such equivalent periods as may be determined.

(b) to permit persons holding approved higher degrees to present themselves for examination for the degree after two calendar years.

28. In the case of persons accepted for the degree under article 21(a) above whose course of advanced study and research does nor require laboratory work, the normal requirement of three academic years of full-time study may be waived at the discretion of the Senate. Such candidates will be required to undertake a part-time course of advanced study and research in the University for a minimum period of *three calendar years*; and during this period to maintain such personal contact with their supervisor as may be prescribed by the appropriate committee.

(The provisions of article 28 will normally be restricted to candidates already holding a higher degree obtained by advanced study and research, or other relevant qualification or experience.)

RELEVANT REGULATIONS MADE UNDER ORDINANCE VIII

21. Before entering on the course of advanced study and research, a candidate must:

(a) submit to the Senate for its approval his proposed course of advanced study and research and present evidence satisfactory to the Senate that he is qualified to undertake the proposed course

(b) register as a student of the University and pay the prescribed fees for tuition.

22. Except with the special permission of the Senate, no candidate for the degree of Ph.D. may submit a thesis later than six years if engaged in full-time study, or later than eight years in part-time study, from the date of registration for the degree.

23. On completing the course of advanced study and research a candidate must:

(a) present a thesis on the subject of his advanced study and research, and satisfy the examiners that it contains original work worthy of publication, and that it is of a sufficient standard of merit to qualify for the degree of Doctor of Philosophy

(b) present himself for an oral examination, except in the case of mathematics, on matters relevant to his thesis and, if required, for a written examination, and satisfy the examiners in the examination as well as in the thesis presented.

24. The application of a candidate for admission to the course for the degree must give particulars of his educational career and qualifications as well as the subject of his proposed course of advanced study and research. The application must be addressed to the Registrar.

(A candidate is advised, before making application to the Registrar, to consult the head of the department which is concerned with the subject he proposes to study.)

25. A candidate during his course must devote his whole time to his advanced study and research; but in exceptional cases the Senate is prepared to allow the candidate to undertake a limited amount of outside work which, in its judgment, would not interfere with the prosecution of his proposed course of advanced study and research.

26. A candidate must not submit as his thesis one for which another degree or similar qualification has been awarded, or which is under consideration for such an award; but he will not be precluded from incorporating in his thesis any part of such work provided that he states his wish to do so at the time of his application for acceptance as a candidate and in the thesis itself indicates the part of the work so incorporated.

27. It will be generally convenient that the candidate's course should begin at the opening of the academic year in October; but the Senate is prepared to consider applications for leave to begin the course at some other time.

28. Not less than three months before the completion of his course the candidate must make application to the Registrar to be examined. Thereafter, but not more than six weeks before the end of the course, the candidate must submit two copies of a thesis each of which must be accompanied by a short abstract. Theses must be bound in a standard form, particulars of which may be obtained from the Registrar. A copy of the thesis approved for the degree will be retained in the University Library.

29. Normally there will be a period of six to eight weeks between the submission of the thesis and the announcement of the result of the examination.

THE UNIVERSITY OF LEEDS

Faculty of Economic and Social Studies

1971-72

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Introduction

A training in the social sciences can serve any or all of several purposes. In the first place an understanding of economics, politics, sociology or geography is an important part of the equipment of anyone who seeks to understand public affairs in the present or in the past. A study of the social sciences is therefore a liberal education in the best sense of the term. These subjects occupy an intermediate position between the arts and the sciences. On the one hand they have affinities with philosophical and historical studies, but they also make use of methods of analysis which are not unlike those of the natural scientists and include the use of statistics. They train the student in the art of selecting out of many factors which bear upon a situation, those few that are most helpful in understanding it. A student is given considerable freedom in deciding what degree of specialisation he will undertake, and the various alternatives are set out in the pages that follow.

Anyone who expects to be concerned with industry or commerce will need some knowledge of economics in order to understand the impact of general economic conditions or public policy upon the individual firm and to evaluate its plans. For this purpose it is useful to study other aspects of production or trade together with economics.

The subjects taught in the School of Economic Studies include economics, economic history, economic statistics, accounting and industrial relations. There are unsurpassed opportunities for specialisation in economic history; this scheme of study contains essential elements of economic subjects but permits concentration on the main subject for a good deal of the second and the whole of the third year.

Opportunities for study of the economics of agriculture, including the possibility of specialising in one branch of the subject, are available in the M.A. in agricultural economics.

The subjects taught in the Department of Social Studies may be useful to students interested in social welfare, politics and a wider range of human behaviour than that covered by economics. They include sociology, administration, politics (both national and international) and more specialised subjects such as criminology and demography. Although a degree in sociology is recognised by professional training bodies as qualifying candidates for admission to training courses, the scheme of study does not include practical social work, nor are students encouraged to undertake such work in the university vacations.

A special option is provided for students who wish to combine a study of sociology with a training in statistics and quantitative methods. A knowledge of mathematics to "A" level will be required for entry to this option.

University work in geography has both social science and natural science concerns, and the subject may consequently be read for either a B.A. or B.Sc. degree (see prospectus, *Faculties of Science and Applied Science*). The schemes of study for the B.A. degree emphasise the geographical aspects of human behaviour. Particular attention is given to the evolution of systems of settlement and resource use and to their spatial and ecological relationships. In common with other social science subjects, geography requires a basic grasp of quantitative methods and their application; general instruction in such methods does not assume more than "O" level mathematics. However, prospective students wishing to pursue quantitative studies to a more advanced level on an optional basis in the third year should preferably have a suitable grounding in mathematics or statistics. Close attention at Leeds is also given to the use of historical evidence in geographical enquiry and to methods of field survey including relevant sampling procedures.

Although geography shows an increasing degree of specialisation with reference to its social science and natural science interests, it continues to provide a balanced concern with the interrelated activities of man and nature. It is for this reason that the subject plays a major role in the national educational system, and the demand for well-qualified teachers provides an important outlet for graduates. However, many students read geography as a means to understanding some of the problems of environmental management to which increasing attention is being paid in all parts of the world; and, through both their first degree work and also postgraduate studies (including professional training in planning), they may equip themselves to contribute to the solution of these problems.

Students in the Department of Chinese Studies read for a B.A. in one subject spending approximately half their time on Chinese (written and spoken), Chinese institutions and history, and half on a chosen subject, which may be either economics, geography, history, politics or sociology. The scheme of study requires four years. In the first two years the student acquires a general knowledge of Chinese and a general knowledge of his other subject, e.g. geography. In the final two years he begins to specialise on the geography of China, using sources in the Chinese language. The same method is used if some other subject, such as sociology, is combined with the study of Chinese.

Inter-departmental co-operation benefits from the fact that in addition to the staff of the Department of Chinese Studies there are, in the School of History and the Departments of Geography and Social Studies, lecturers in history, geography, politics and sociology who have high qualifications in the use of materials on China and in Chinese.

ORDINANCE II DEGREES IN ARTS

1. The degrees in Arts shall be:

Bachelor of Arts (B.A.)
Bachelor of Divinity (B.D.)
Bachelor of Music (B.Mus.)
Master of Arts (M.A.)
Master of Education (M.Ed.)
Master of Philosophy (M.Phil.)
Doctor of Philosophy (Ph.D.)
Doctor of Letters (Litt.D.)
Doctor of Divinity (D.D.)
Doctor of Music (D.Mus.)

THE DEGREE OF BACHELOR OF ARTS

2. The degree of Bachelor of Arts shall be conferred upon candidates who have fulfilled the requirements as to study and examinations; the degree shall be awarded with honours to those candidates who attain a sufficiently high standard in the examination.

3. Candidates may proceed to the degree of Bachelor of Arts by following an approved scheme of study* for not less than three academic years, and by passing the prescribed examinations.

4. All candidates for the degree of Bachelor of Arts shall be required to have passed the examination for matriculation or to have obtained a certificate of exemption therefrom before entering upon an approved scheme of study.

5. A candidate may transfer from any one scheme of study leading to the degree of Bachelor of Arts to another scheme, subject to the approval of the Board of the Faculties.†

6. Except with the permission of the Board of the Faculties, candidates for the degree of Bachelor of Arts must complete the requirements of the first year of the scheme of study before proceeding to further study.

7. Except with the special permission of the Senate:

(a) Every candidate for the degree of Bachelor of Arts shall be required to present himself for the final examination at the end of the third or fourth academic year from the time when he has entered upon one of the schemes of study approved for the degree.

(b) A candidate failing in the final examination for the degree of Bachelor of Arts will not be allowed to present himself for re-examination on more than one occasion.

(c) A candidate who does not pass the final examination at his first attempt will not be eligible for the award of the degree with honours.

(d) No candidate will be allowed to present himself for re-examination for the degree of Bachelor of Arts later than the end of the fifth academic year after his entry upon the approved course of study.

8. (a) Candidates who have passed the final examination for the degree of Bachelor of Arts may be awarded:

(i) the degree of Bachelor of Arts with first class honours,
or (ii) the degree of Bachelor of Arts with second class honours, first division,
or (iii) the degree of Bachelor of Arts with second class honours, second division,
or (iv) the degree of Bachelor of Arts with third class honours,
or (v) the degree of Bachelor of Arts.

* Approved schemes of study are listed on p. E14.
† Such a transference may necessitate the extension of the candidate's scheme of study by one year.

(b) The names of successful candidates in each group shall be arranged in alphabetical order.

(c) The names of candidates who have passed the examination for the degree of Bachelor of Arts shall be published in such a form as to identify the scheme of study in which each has passed.

9. A candidate who has been awarded the degree of Bachelor of Arts on successful completion of one scheme of study may not present himself a second time for the examination on that same scheme of study.

10. A candidate who has passed the final examination for the degree of Bachelor of Arts in one scheme of study may, subject to the approval of the Senate given on the recommendation of the Board of the Faculties, present himself for the examination for the degree of Bachelor of Arts in any other scheme of study, after the expiration of not less than one further year, if during this period he has attended approved courses of study.

[See also the regulations on page E6.]

THE DEGREE OF MASTER OF ARTS

17. The degree of Master of Arts may be conferred, on payment of the proper fee, on satisfactory completion of an approved full-time scheme of advanced study in the University and on the passing of the prescribed examinations:

(a) upon graduates of the University of Leeds or of any approved university

(b) in approved cases upon persons who are not graduates

provided that all such persons have qualifications which are acceptable to the Senate as an appropriate preparation for the particular advanced study scheme envisaged.

18. Schemes of advanced study leading to the degree of Master of Arts may vary in length from subject to subject but in no case shall the period of full-time study be less than one academic year.

19. Candidates who have graduated with first- or second-class honours, or who hold qualifications which are deemed by the Senate to be equivalent to first- or second-class honours degrees, or who have gained a postgraduate diploma at a sufficiently high standard in a subject regarded as an adequate preparation will be eligible to proceed to the degree after the minimum period of full-time study of one academic year.

20. Candidates who hold a degree or a qualification which is deemed equivalent to a degree, but who are unable to satisfy the requirements of article 19 above may be accepted for the degree on the recommendation of the appropriate Board of Faculty and will normally be required to undertake an approved full-time scheme of advanced study for such period in excess of one academic year as may be determined in each case.

[See also the regulations on page E7.]

THE DEGREE OF DOCTOR OF LETTERS

21. The degree of Doctor of Letters shall be conferred by the University upon graduates of the University who shall be deemed by the Senate, after considering a report from the Board of the Faculties of Arts, Economic and Social Studies and Law, to have distinguished themselves by special research or learning.

22. A graduate of the University may make application for the degree of Doctor of Letters in the sixth or any subsequent year from the date of graduation.

23. If the application be approved by the Senate, the degree may be conferred at the first convenient date thereafter.

[See also the regulations on page E7.]

Regulations

THE DEGREE OF BACHELOR OF ARTS

1. All intending candidates for the degree of Bachelor of Arts must comply with any special requirements laid down in relation to the courses they propose to follow; for some of these a previous knowledge of certain subjects is required.

2. Candidates for the degree of Bachelor of Arts must present themselves for any departmental examinations arranged in connection with the courses prescribed for their scheme of study.

3. Candidates will not be permitted to present themselves for examination in any subject unless they have regularly attended the prescribed course of study in that subject and performed the work of the class to the satisfaction of the head of the department providing the course of study.

4. Candidates for the degree of Bachelor of Arts will be admitted to the first year of a prescribed scheme of study by the Sub-Dean of the Faculties of Arts, Economic and Social Studies and Law, in consultation with the heads of departments concerned, or by heads of departments, as appropriate. [See prescribed schemes of study pp. E15 to E40]

5. A candidate's choice between the various options offered within the prescribed scheme of study to which he has been admitted will be subject to the approval of either the Sub-Dean of the Faculties of Arts, Economic and Social Studies and Law, in consultation with the heads of the departments concerned, or of the heads of departments, as appropriate.

6. Degree examinations will ordinarily be held in June of each year. Supplementary examinations on first-year courses will also be held in September, but, except with the special permission of the Senate, a candidate will not be admitted to the September examination on any such course unless:

(a) he has presented himself for the corresponding examination in the preceding June,

(b) he has attained an appropriate standard in the June examinations as a whole.

The last date for entry for the June examinations will be a date towards the end of January each year as prescribed by the Registrar.*

7. Where a candidate, who has failed to complete the requirements for the first year of his scheme of study, is given permission to proceed to the second year under the provisions of article 6 of Ordinance II (see p. E3), he must re-present himself for and pass the first-year examination in any subject:

(a) in June, if it is a subject in which he has failed in the previous session, or

(b) in June or September, if the subject is not one of those in which he was examined in the previous session, provided that a candidate will not be allowed to take the September examination unless he has attained an appropriate standard in the June examination in that subject.

8. Except with the special permission of the Senate, no candidate will be allowed to present himself for the final examination for the degree unless he has passed the required examinations on first-year courses not later than the preceding September.

* See also the general regulations for examinations in the prospectus *General Regulations*, page A9.

THE DEGREE OF MASTER OF ARTS

13. Candidates accepted for the degree of Master of Arts shall be required:

(a) to be registered as full-time students of the University

(b) to attend to the satisfaction of their head of department such course or courses of instruction in the University as the Senate, on the recommendation of the appropriate Board of Faculty, may require

(c) if accepted under the provisions of article 20, to give evidence, by examination or otherwise, to their head of department not later than the end of the third term of their period of study that their progress has been satisfactory.

14. Schemes of advanced study approved for the purpose of the degree of Master of Arts will normally start in October each year, at the beginning of the academic session.*

15. The examination for the degree may include, in addition to any written papers, assessment of a dissertation on a minor research project and, at the discretion of the examiners, an oral examination.

16. The names of candidates who have satisfied the examiners shall be arranged in alphabetical order, and distinction may be awarded for work of exceptional merit.

17. A candidate who has failed in the examination for the degree of Master of Arts may be permitted, on the special recommendation of the examiners, to present himself for re-examination on one occasion only.

THE DEGREE OF DOCTOR OF LETTERS

18. All applications must be made in writing to the Registrar and contain a full statement of the grounds on which the claim for the degree is based, together with three copies of any thesis, whether in print or in manuscript, which the applicant may desire to submit in support of the application. A copy of the thesis approved for the degree will be retained in the University library.

19. A candidate must not submit in chief or sole support of his application for the degree a thesis for which a degree has been awarded in the University of Leeds or any other university, or which is under consideration for the award of a degree in another university; but he will not be precluded from submitting in additional support of his application a thesis for which a degree has already been awarded or from incorporating (in whole or in part) such work in the thesis submitted, provided he clearly indicates the work thus submitted or incorporated.

The application must be accompanied by the prescribed fee.

* Details of the scheme approved in each subject and the prescribed examinations are given on pp. E41 to E43.

ORDINANCE VIII. RESEARCH DEGREES

1. The research degrees shall be:

Bachelor of Divinity (B.D.)
Master of Education (M.Ed.)
Master of Laws (LL.M.)
Master of Laws in Commercial Law (LL.M.Com.)
Master of Philosophy (M.Phil.)
Doctor of Philosophy (Ph.D.)

THE DEGREE OF MASTER OF PHILOSOPHY

10. The degree of Master of Philosophy may be conferred, on payment of the proper fee and on presentation of a thesis, on candidates who have completed approved research (in addition to which courses of advanced study formally examined may be prescribed by the Senate) and who thereafter satisfy the examiners for the degree; subject to the fulfilment of the conditions laid down in the following articles and in the regulations governing the award of the degree (see pages E11 to E12).

11. Except as provided in subsequent sections of this Ordinance, the period of full-time or, where appropriate, part-time study will normally be not less than two academic years.

12. Graduates of the University of Leeds may present themselves for examination for the degree of M.Phil. in an approved subject without being required to attend the University, or to study under the supervison of a member of staff, or to pay fees other than the examination fee. Such candidates are, however, required to consult fully with the appropriate head of department on their subject of research and programme of work. In all other respects they will be required to satisfy the conditions as laid down in the Ordinance and the regulations governing the award of the degree.*

Candidates in the Faculties of Arts, Education and Economic and Social Studies

13. Graduates of any approved university may be accepted as candidates for the degree of M.Phil. and shall proceed to the degree by presenting a thesis satisfactory to the Senate on a subject approved by the appropriate committee and, where the approved work for the degree includes a substantial element of advanced study, by satisfying the examiners in the written examinations thereon; provided that, with the approval of the Senate:

(a) graduates who wish to proceed to the degree in a subject not studied as a substantial part of the course for their first degree may be required, before acceptance as candidates, to reach a satisfactory standard in a preliminary examination in that subject

(b) graduates who have not reached honours standard in their first degree examination may be required to pass a qualifying examination in a subject prescribed by the appropriate committee not less than one year after the date of their acceptance.

14. In exceptional circumstances persons who are not graduates may, if they satisfy the Senate that their educational attainments and experience qualify them to undertake a course of advanced study and research prescribed for the degree of M.Phil., be accepted as candidates for the degree and shall present themselves for the degree examination after not less than three

* Such candidates are advised to maintain regular contact with their department, which should be kept informed about the progress of their studies.

academic years' study on an approved course. Such candidates must first reach a satisfactory standard in a special preliminary examination and, thereafter, may proceed only if

(a) at the end of the first year they have given evidence to the Senate that their work has been satisfactory; and

(b) at the end of their second year they have passed a general examination in the subject of their study.

15. In approved cases, candidates wishing to proceed to the degree after being awarded a postgraduate diploma of the University *with distinction* in a relevant subject, may count the period of the diploma course towards the minimum period of study for the degree and thus present themselves for examination for the degree after one further calendar year of study. [See also the regulations on pages E11 to E12.]

THE DEGREE OF DOCTOR OF PHILOSOPHY

21. The degree of Doctor of Philosophy may be conferred, on payment of the appropriate fee and on presentation of a thesis, subject to the conditions in the following articles and in the regulations governing the award of the degree (see pages E12 to E13):

(a) on persons who are registered graduates of the University of Leeds or graduates of an approved university

(b) on the holder of a recognised degree awarded as a result of study at an approved institution other than a university; or of a diploma awarded by such an institution not empowered to confer degrees; or of any other qualification approved for this purpose by the Senate; provided that the course of study in the subject for which the degree has been awarded has extended over not less than three years of full-time study and is acceptable to the Senate as being an adequate preparation for the research proposed

(c) in exceptional circumstances, on the holder of a diploma of the University of Leeds, provided that the Senate is satisfied regarding the course of study towards such a diploma and the standard attained by the candidate in the examination for the diploma.

22. A candidate applying for acceptance for the degree under the provisions of paragraphs (b) and (c) of article 21 will be required to present to the Senate evidence of a satisfactory general education; and in the absence of such evidence may be required to pass an examination to be prescribed in each case by the Senate before his acceptance.

23. Except as may hereinafter be provided, all candidates for the degree of Doctor of Philosophy are required to pursue for not less than three academic years (of which not less than two calendar years must be of full-time study in residence at the University) an approved course of advanced study and research under such supervision and direction as may be prescribed.

24. In special circumstances, candidates may be permitted to devote such periods as may be deemed advisable by the Senate to full-time study and research in other approved universities or institutions, or in an approved scientific or industrial establishment, while remaining under the direction of the University or of persons nominated by the University, provided that they spend in the University not less than one calendar year or an equivalent period prescribed by the Senate.
(Persons working in approved scientific or industrial establishments will be eligible for acceptance for the degree of Doctor of Philosophy under the provisions of article 24 only if the terms of their employment permit them to devote their whole time to their research for the degree; and will normally be expected to be in full-time residence at the University for at least the first two terms of their course, when they may be required to attend formal instruction at an advanced level. The Senate reserves the right to extend the overall minimum period of study of three academic years in such cases.)

25. Normally, applicants for acceptance as candidates for the degree of Doctor of Philosophy under the provisions of article 21 above will, in the first instance, either be required to apply for acceptance as candidates for the degree of Master of Philosophy or be asked to register as research students, and may, with the approval of the appropriate committee, be accepted as candidates for the degree of Doctor of Philosophy on completion of their first year of study to the satisfaction of the head of the department concerned. The Senate may waive this requirement in the case of

(a) persons already holding a higher degree of an approved university or institution awarded on completion of a course of advanced study or research undertaken after the award of a first degree

(b) persons whose academic qualifications reach the required standard and who have, in addition, industrial or other experience of special relevance to the proposed subject of research, and who are recommended by the head of the department concerned as being suitably qualified for direct acceptance for the degree.

26. Candidates in the Faculties of Science, Applied Science and Medicine whose academic qualifications reach the required standard and who have industrial or other experience of special relevance to the proposed subject of research or who have made outstanding progress in their studies may, on the recommendation of the head of the department concerned and with the approval of the appropriate committee, present themselves for the examination for the degree after a minimum of two calendar years of full-time study. Such candidates shall not be eligible to have the degree conferred upon them (except as specified in article 27) until the expiry of the full minimum period of study of three academic years.

27. The Senate shall be empowered:

(a) to reduce, in exceptional cases, the minimum period of three academic years of full-time study for the degree of Doctor of Philosophy in cases where the academic qualifications of a candidate or the excellence of his work for the degree merit such a reduction, provided that no candidate may have the degree conferred upon him before the completion of two calendar years of full-time study, or such equivalent period as may be determined

(b) to permit persons holding approved higher degrees to present themselves for examination for the degree after two calendar years.

28. In the case of persons accepted for the degree under article 21 (a) and (b) above, the normal requirement of three academic years of full-time study may be waived at the discretion of the Senate. Such candidates will be required to undertake a part-time course of advanced study and research in the University for a minimum period of *three calendar years;* and during this period to maintain such personal contact with their supervisor as may be prescribed by the appropriate committee.
(The provisions of article 28 will normally be restricted to candidates already holding a higher degree obtained by advanced study and research, or other relevant qualification or experience.)

[See also regulations on pages E12 to E13.]

Regulations Research Degrees

THE DEGREE OF MASTER OF PHILOSOPHY

All Candidates

12. Except in the case of graduates of the University accepted as candidates under the provisions of article 12 of Ordinance VIII, all candidates for the degree of M.Phil. shall be required:

(a) to be registered as students of the University

(b) to undertake an approved course of research or combination of research and advanced study, as prescribed by the appropriate committee, under the supervision of the head of the department concerned or any other person nominated for this purpose by the University

(c) to give evidence of satisfactory progress by such means as may be prescribed by heads of departments

(d) to satisfy the examiners for the degree.

13. A candidate must not submit as his thesis one for which another degree or similar qualification has been awarded or which is under consideration for such an award; but he will not be precluded from incorporating in his thesis any part of such work provided that he states his wish to do so at the time of his application for acceptance as a candidate and in the thesis itself indicates the part of the work so incorporated.

14. In all subjects, the examination for the degree may, at the discretion of the examiners, include an oral examination and such other test as may be deemed appropriate.

15. Not less than three months before the completion of his course the candidate must make application to the Registrar to be examined. Thereafter, but not more than six weeks before the end of the course, the candidate must submit two copies of a thesis each containing a short abstract which should be bound at the front of the thesis. Theses must be bound in a standard form, particulars of which may be obtained from the Registrar. The top copy (not the first carbon copy) of the thesis approved for the degree will be retained in the University library.

Normally there will be a period of six to eight weeks between the submission of the thesis and the announcement of the result of the examination.

16. The names of candidates who have satisfied the examiners shall be arranged in alphabetical order, and distinction may be awarded for work of exceptional merit.

Candidates in the Faculties of Arts, Education and Economic and Social Studies

17. Candidates undertaking advanced study as part of their course for the degree of M.Phil. must pass the prescribed examinations. (The examination syllabuses are set out on page E44.)

18. Persons who are not graduates applying for acceptance for the degree under article 14 must:

(a) present themselves for interview by the appropriate committee and, if required, subsequently take an examination to establish their fitness to proceed to study for the degree. Such an examination may not be confined to the subject in which the candidate wishes to proceed.

(b) attend for supervised study in the University for such periods as may be prescribed by the appropriate committee in each case.*

19. Graduates of other universities accepted under article 13 must attend in the University in the first and second years of study for frequent consultation with the head of department or supervisor to the satisfaction of the appropriate committee.

THE DEGREE OF DOCTOR OF PHILOSOPHY

21. Before entering on the course of advanced study and research, a candidate must:

(a) submit to the Senate for its approval his proposed course of advanced study and research and present evidence satisfactory to the Senate that he is qualified to undertake the proposed course

(b) register as a student of the University and pay the prescribed fees for tuition.

22. Except with the special permission of the Senate, no candidate for the degree of Ph.D. may submit a thesis later than six years if engaged in full-time study, or later than eight years in part-time study, from the date of registration for the degree.

23. On completing the course of advanced study and research a candidate must:

(a) present a thesis on the subject of his advanced study and research, and satisfy the examiners that it contains original work worthy of publication, and that it is of a sufficient standard of merit to qualify for the degree of Doctor of Philosophy

(b) present himself for an oral examination, except in the case of mathematics, on matters relevant to his thesis and, if required, for a written examination, and satisfy the examiners in the examination as well as in the thesis presented.

24. The application of a candidate for admission to the course for the degree must give particulars of his educational career and qualifications as well as the subject of his proposed course of advanced study and research. The application must be addressed to the Registrar.
(A candidate is advised, before making application to the Registrar, to consult the head of the department which is concerned with the subject he proposes to study.)

25. A full-time candidate during his course must devote his whole time to his advanced study and research; but in exceptional cases the Senate is prepared to allow the candidate to undertake a limited amount of outside work which, in its judgement, would not interfere with the prosecution of his proposed course of advanced study and research.

26. A candidate must not submit as his thesis one for which another degree or similar qualification has been awarded or which is under consideration for such an award; but he will not be precluded from incorporating in his thesis any part of such work provided that he states his wish to do so at the time of his application for acceptance as a candidate, and in the thesis itself indicates the part of the work so incorporated.

27. It will be generally convenient that the candidate's course should begin at the opening of the academic year in October; but the Senate is prepared to consider applications for leave to begin the course at some other time.

* Normally attendance will be on at least two days a week for a total of not less than six hours a week during the first year; and in subsequent years on at least two days a week for a total of not less than four hours a week, unless in special cases the Senate has agreed to modify these attendance requirements.

28. Not less than three months before the completion of his course the candidate must make application to the Registrar to be examined. Thereafter, but not more than six weeks before the end of the course, the candidate must submit two copies of a thesis each containing a short abstract which should be bound at the front of the thesis. Theses must be bound in a standard form, particulars of which may be obtained from the Registrar. The top copy (not the first carbon copy) of the thesis approved for the degree will be retained in the University library.

29. Normally there will be a period of six to eight weeks between the submission of the thesis and the announcement of the result of the examination.

Regulations Prescribing Schemes of Study for the Degree of Bachelor of Arts

Candidates should note that in order to qualify for admission to a scheme of study for a first degree in the University, they must satisfy both a *General Requirement* and a *Course Requirement*. For information regarding the *General Requirement*, for purposes of matriculation, candidates should write to the Secretary, Joint Matriculation Board, Manchester, M15 6EU. The *Course Requirement* is set out at the beginning of the regulations for each degree scheme of study in the Faculty of Economic and Social Studies.

The Ordinance and general regulations governing the degree of Bachelor of Arts will be found on pages E3 and E6.

Attendance at lectures in economics or sociology is mostly voluntary for students reading these subjects for the degrees of Bachelor of Arts or Bachelor of Science in combined studies. Attendance at tutorials, at lectures in accounting and at the second and third year economics seminars is, however, compulsory where prescribed.

Enquiries about schemes of study should be addressed to The Registrar, The University of Leeds, Leeds, LS2 9JT.

The figures *in brackets* show the number of hours lecture time a week.

SCHEMES OF STUDY

Schemes of study leading to the degree of Bachelor of Arts in the following subject or subjects are available in the Faculty of Arts and the Faculty of Economic and Social Studies:

Chinese studies
Economic history
Economic history and geography
Economics
Economics and geography
Economics and history
Economics and politics
Economics and sociology
Economics and textile industries
French and management studies
Geography
Geography and history
Geography and mathematics
Geography and politics
Geography and sociology
International history and politics
Philosophy and politics
Philosophy and psychology
Philosophy and sociology
Political studies
Politics and sociology
Psychology and sociology
Religious studies and sociology
Social and public administration
Sociology

Chinese Studies

A scheme of study extending over a period of four years and leading to the degree of Bachelor of Arts in Chinese Studies.

COURSE REQUIREMENT

For admission to the scheme passes in three approved subjects at advanced level are preferred although candidates with two good passes will also be considered. These passes may be in any approved subject.

In addition a pass in a language other than English at ordinary level is required.

For candidates taking economics, a pass at ordinary level in mathematics is normally required.

SCHEME OF STUDY

First Year

1. Chinese language
2. Chinese studies

} 3 papers and an oral examination

3. One approved subject selected from:
   Economics (2 papers)
   Geography (3 papers)
   History (2 papers)
   Politics (3 papers)
   Sociology (3 papers)*

Candidates will normally be required to pass examinations in sections 1, 2, and 3 of the first year before proceeding to further study.

Second, Third and Fourth Years

1. Chinese language
2. Chinese studies (economic, social and political institutions and history)
3. History of Chinese thought and literature with special reference to the period since 1890
4. The second approved subject taken in the first year. See (3) above.

FINAL EXAMINATION

The final degree examination in Chinese language and Chinese studies will consist of an oral examination and 5 papers:

1. Translation from Chinese
2. Chinese prose composition
3. Prescribed texts (literature)
4. Prescribed texts (documents)
5. Chinese studies (economic, social and political institutions and history).

In addition candidates will be required to submit an extended essay on a subject approved by the head of the Department of Chinese Studies.

Candidates will normally be required to present themselves for the final examination in their second subject at the end of the fourth year.

* In exceptional circumstances and with the approval of the head of the Department of Chinese Studies, some other first-year subject may be taken in place of those mentioned.

The 4 papers in the second subject will consist of:

Economics
- Economic theory
- Comparative economic systems and economic development
- International economics
- The economy of China, or a special subject in economics approved by the heads of both departments

Geography
- Environmental physiography
- Natural resources, regional and urban development
- Historical geography of Monsoon Asia
- China

In the Department of Geography tutorial and essay work is required in all three years and candidates will be required to attend field courses, one of which may be held in a vacation period. Field work will be tested in the examinations.

History

Two papers in Chinese history, one of which will relate to a special aspect of Chinese history studied in relation to prescribed texts

Two papers to be selected from the following:
- Economic history of the modern world from *c.* 1850
- British history from the end of the seventeenth century
- European social and intellectual history 1815 to 1918
- History of Russia from 1856
- History of the U.S.A. from 1783

Politics
- Politics 1
- Politics 2
- Political and social theory
- Government and politics of China

Sociology
- Sociology (2 papers)
- The social structure of China
- The institutions of advanced societies.

Economic History

A scheme of study extending over a period of three years and leading to the degree of Bachelor of Arts in Economic History.

COURSE REQUIREMENT

For admission to the course passes in two subjects at advanced level are required and a third is preferred. These passes may be in any approved subject.
A pass at ordinary level in mathematics is normally required.

EXAMINATIONS

First Year

General economics (2 papers)
Economic statistics 1 (1 paper)
English economic history 1066 to 1914 (2 papers)
History (2 papers)

This qualifying examination at the end of the first year must normally be passed by candidates before they proceed to further study.

Third Year

1. Economic theory (H) (1 paper)
2. *One* of the following:
   Industry and labour
   Comparative economic systems and economic development
   International economics (1 paper)
3. Recent economic history (1 paper)
4. Economic history of the modern world (1 paper)
5. The history of the State and the economy (1 paper)
6. Historical statistics and sources (1 paper)
7, 8 and 9. Optional periods or topics in economic history (3 papers).

Economic History and Geography

A scheme of study extending over a period of three years and leading to the degree of Bachelor of Arts in Economic History and Geography.

COURSE REQUIREMENT

For admission to the scheme passes in two approved subjects at advanced level are required and a third is preferred.

One of these passes must be in geography.

A pass at ordinary level in mathematics is normally required.

FIRST-YEAR EXAMINATION

1. Economics: three papers as follows:
   (a) General economics (2 papers)
   (b) British economic history 1750-1914 (1 paper)
2. Geography: three papers as follows:
   (a) Environmental physiography (1 paper)
   (b) Evolution of settlement and land use (1 paper)
   (c) Cartography and quantitative methods (1 paper)
3. One other approved subject (2 or 3 papers)

FINAL EXAMINATION

1. Environmental physiography
2. Spatial systems
3. Natural resources and regional development
4. Historical analysis of settlement in Great Britain
5. English economic history 1066-1914

6. Recent economic history (the British economy since 1914 and American economic history)
7. Economic theory (H)
8. Special period or topic in economic history, selected in 1971-72 from the following:
   (a) The economic history of Leeds
   (b) The British economy 1896 to 1914
   (c) Industrial relations in the British coal industry 1919-39
   (d) The American economy in the mid-nineteenth century
   (e) The Tudor economy
9. *Either* An additional special period or topic in economic history from the above *or* another paper in geography offered for students reading for the degree in geography, to be chosen with the approval of the head of department.

In the Department of Geography tutorial and essay work is required in all three years and candidates will be required to attend field courses, one of which may be held in a vacation period. Field work will be tested in the examinations.

All candidates will be required to attend a course in cartography and field excursions, as directed, in the Department of Geography as an integral part of the degree requirements.

Economics

A scheme of study extending over a period of three years and leading to the degree of Bachelor of Arts in Economics.

COURSE REQUIREMENT

For admission to the course passes in two approved subjects at advanced level are required and a third is preferred. These passes may be in any approved subject.

A pass at ordinary level in mathematics is normally required.

SCHEME OF STUDY

First Year

Economics S1 (2)
Economic statistics 1 (1)
Accounting 1 (2)
Mathematical concepts in economic theory (1)
British economic history 1750-1914 (1)
Tutorials and/or classes up to three hours

and *one* of the following subsidiary courses:
Politics
Sociology
Philosophy
Mathematics*

Second Year

Economics S2 (2)
Economic statistics 2 (2)
Industry and labour (2)
The British economy and its management (2)
and one of the following options A to E:

Option A
Comparative economic systems and economic development (2)

* Courses combining logic with mathematics may be approved by the chairmen of the Schools of Mathematics and Economics.

and either:
Quantitative methods in decision making (2)
or International economics (2)

Option B
Quantitative methods in decision making (2)
Accounting 2 (2)

Option C
Quantitative methods in decision making (2)
Supplementary mathematics and statistics (2)

Option D
Quantitative methods in decision making (2)
Organisation theory (1) (Management studies A2)

Option E
Supplementary mathematics and statistics (1½)
and either:
Quantitative methods in decision making (2)
or International economics (2)
Tutorials and/or classes up to three hours.

Third Year
Development of modern economic thought (2)
one of the following options A to E corresponding to the optional course taken in the second-year:

Option A
Three special subjects in non-quantitative economics or economic history approved by the chairman of the School (4 or 4½)

Option B
Accounting 3 (4)

Option C
Management accounting (1)
Business finance (1)
Advanced quantitative methods (1½)

Option D
Management accounting (1)
Business finance (1)
Social and industrial psychology (1) (Management studies A3)

Option E
Three special subjects in economics or economic history approved by the chairman of the School (4 or 4½)

Special subjects
A wide choice of special subjects, representing the specialist interest of members of staff will be offered each year at the appropriate time. Some of these may require that certain second year optional courses have been taken and/or that they should be combined with one of the following courses which will normally be available as special subjects every year:
Monetary theory and institutions
Public finance
Labour economics
Industrial relations
Industrial economics
Economic history (one or more courses)

EXAMINATION

First Year

Economics S1 (1 paper)
Economic statistics 1 (1 paper)
Mathematical concepts in economic theory (1 paper)
British economic history 1750-1914 (1 paper)
Accounting 1 (1 paper)
one of the following:
Politics (2 papers)
or Sociology (2 papers)
or Philosophy (2 papers)
or Mathematics (2 papers)
This qualifying examination at the end of the first year must normally be passed by candidates before they proceed to further study.

Final Examination

Economic theory (1 paper)
Economic statistics 2 (1 paper)
Industry and labour (1 paper)
The British economy and its management (1 paper)
and *one* of the following options A to E:

Option A
Comparative economic systems and economic development (1 paper)
either Quantitative methods in decision making (1 paper)
or International economics (1 paper)
One paper in each of three special subjects (3 papers)

Option B
Quantitative methods in decision making (1 paper)
Accounting (4 papers)

Option C
Supplementary mathematics and statistics (1 paper)
Quantitative methods in decision making (1 paper)
Advanced quantitative methods (1 paper)
Accounting (2 papers)

Option D
Quantitative methods in decision making (1 paper)
Accounting (2 papers)
Social and industrial psychology (1 paper)
Organisation theory (1 paper)

Option E
Supplementary mathematics and statistics (1 paper)
Either Quantitative methods in decision making (1 paper)
or International economics (1 paper)

One paper in each of three special subjects (3 papers)

Economics and Geography

A scheme of study extending over a period of three years and leading to the degree of Bachelor of Arts in Economics and Geography.

COURSE REQUIREMENT

For admission to the scheme passes in two approved subjects at advanced level are required and a third is preferred.

One of these passes must be in geography.

A pass at ordinary level in mathematics is normally required.

FIRST-YEAR EXAMINATION

1. Economics: three papers as follows:
   (a) Economics S1
   (b) Mathematical concepts in economic theory
   (c) British economic history 1750-1914
2. Geography: three papers as follows:
   (a) Environmental physiography (1 paper)
   (b) Evolution of settlement and land use (1 paper)
   (c) Cartography and quantitative methods (1 paper)
3. One other approved subject (2 or 3 papers).

FINAL EXAMINATION

The final examination will consist of nine papers: *either* four geography and five economics *or* four economics and five geography.

1. Environmental physiography
2. Systems of spatial organisation
3. Natural resources and regional development
4. Urban and regional analysis
5. Economic theory
6, 7. Two papers selected from the following:
   Industry and labour
   The British economy and its management
   Comparative economic systems and economic development
   International economics
8. A special subject in economics
9. *Either* an additional special subject in economics
   or another paper in geography offered for students reading for the degree in geography, to be chosen with the approval of the head of department.

In the Department of Geography tutorial and essay work is required in all three years and candidates will be required to attend field courses, one of which may be held in a vacation period. Field work will be tested in the examinations.

All candidates will be required to attend a course in cartography and field excursions, as directed in the Department of Geography, as an integral part of the degree requirements.

Economics and History

A scheme of study extending over a period of three years and leading to the degree of Bachelor of Arts in Economics and History.

COURSE REQUIREMENT

For admission to the scheme passes in two approved subjects at advanced level are required and a third is preferred.

A pass at ordinary level in mathematics is normally required.

FIRST-YEAR EXAMINATION

1. Economics: three papers as follows:
   (a) Economics S1
   (b) Mathematical concepts in economic theory
   (c) British economic history 1750-1914
2. History: two papers selected with the approval of the chairman of the School of History from the following:
   (a) The ancient Near East and Greece
   (b) Ancient Rome and the Roman world
   (c) Medieval Europe
   (d) Early modern Europe (to *c.* 1789)
   (e) The making of the modern world
3. One other approved subject.

FINAL EXAMINATION

1. Economic theory
2. One paper selected from the following:
   Industry and labour
   Comparative economic systems and economic development
   International economics
3. English economic history 1066 to 1914
4. Recent economic history (The British economy since 1914, and American economic history)
5. The history of Britain from earliest times to the end of the 14th century
6. The history of Britain from the end of the 14th century to the end of the 17th century
7. The history of Britain from the end of the 17th century
8. *One* of the following:*
   History of the United States of America from 1783
   Reform and society in Europe 1450 to 1600
   France and Europe in the 17th and 18th centuries
   European social and intellectual history 1815 to 1918
9. A special period or topic in history *or* economic history.

Economics and Politics

A scheme of study extending over a period of three years and leading to the degree of Bachelor of Arts in Economics and Politics.

COURSE REQUIREMENT

For admission to the scheme passes in two subjects at advanced level are required.
One of these passes must be in history.
A pass at ordinary level in mathematics is normally required.

* Not all these subjects will necessarily be offered each year and the list may be varied from time to time.

First Year

Candidates for this degree will be allowed to select in the first year of the scheme of study any *three* of the following subjects, provided that economics and politics are two of the subjects chosen.

1. Economics
2. Geography
3. Politics
4. Sociology

A qualifying examination consisting of three papers in each of these subjects will be held at the end of the first year and candidates must pass this examination before they can proceed to the second year of the scheme.

FIRST-YEAR EXAMINATION

1. Economics: three papers as follows:
   (a) Economics S1
   (b) Mathematical concepts in economic theory
   (c) British economic history 1750-1914
2. Politics: three papers as follows:
   (a) Politics (the political structure of Great Britain)
   (b) British constitutional and political history from 1660
   (c) Introduction to political science
3. *Either* Sociology (3 papers)
   or Geography (3 papers)

FINAL EXAMINATION

Economic theory
Two papers selected from the following:
Industry and labour
The British economy and its management
Comparative economic systems and economic development
International economics

Politics (2 papers)
Political and social theory
and *three* of the following:*
Special subjects in economics selected with the approval of the heads of both departments
The government of a special area or areas
International relations
Political sociology.

Economics and Sociology

A scheme of study extending over a period of three years and leading to the degree of Bachelor of Arts in Economics and Sociology.

COURSE REQUIREMENT

For admission to the scheme passes in two subjects at advanced level are required and a third is preferred. These passes may be in any approved subject.
A pass at ordinary level in mathematics is normally required.

FIRST YEAR. The first-year course for this degree is identical with that for the degree in economics and politics (q.v.), provided that economics and sociology are two of the subjects chosen.

* These subjects may be varied from time to time.

FIRST-YEAR EXAMINATION

1. Economics: three papers as follows:
   (a) Economics S1
   (b) Mathematical concepts in economic theory
   (c) British economic history 1750-1914
2. Sociology: three papers as follows:
   (a) Social institutions and sociological concepts
   (b) The social structure of modern Britain
   (c) Quantitative methods in the social sciences*
3. *Either* Politics (3 papers)
   or Geography (3 papers)

FINAL EXAMINATION

Economic theory
Two papers selected from the following:
Industry and labour (1 paper)
The British economy and its management (1 paper)
Comparative economic systems and economic development (1 paper)
International economics (1 paper)
Sociology 1: Central issues, theories and concepts.
Sociology 2: Structures and processes.
The institutions of advanced societies
3 papers selected from the special subjects in economics or from the courses for the degree in sociology set out on page E40, with the approval of the heads of both departments.

Economics and Textile Industries

A scheme of study extending over a period of three years and leading to the degree of Bachelor of Arts in Economics and Textile Industries.

COURSE REQUIREMENT

For admission to the course passes in any two approved subjects at advanced level are required and a third is preferred. A pass at ordinary level in mathematics is normally required.

SCHEME OF STUDY

First Year
Economics S1 (2)
Economic statistics 1 (1)
Mathematical concepts in economic theory (1)
Accounting 1 (2)
Textiles 1A
and *one* of the following:
an approved course in mathematics
a natural science and laboratory work at times to be arranged.
Management Studies A1
Tutorials and/or classes up to 3 hours per week.

Second Year

Economics S2 (2)
Quantitative methods in decision making (2)
one of: Industry and labour (2)
Comparative economic systems and economic development (2)
The British economy and its management (2)

* With the approval of the head of the Department of Social Studies, candidates may substitute an approved course in pure mathematics for this paper.

Tutorials and/or classes up to 3 hours per week.
Textiles 2E

Third Year

Development of modern economic thought (2)
Advanced quantitative methods (1½)
Textiles 3E

Examinations

FIRST-YEAR EXAMINATION

1. Economics: three papers as follows:
   (a) Economics S1 (1 paper)
   (b) Mathematical concepts in economic theory (1 paper)
   (c) Accounting 1 (1 paper)
2. Textile technology (2 papers)
3. An approved natural science
   or
   Mathematics (2 papers)
   or
   Management studies A1 (2 papers)

FINAL EXAMINATION

Economic theory (1 paper)
Quantitative methods in decision making (1 paper)
One of the following:
Industry and labour (1 paper)
The British economy and its management (1 paper)
Comparative economic systems and economic development (1 paper)
either Advanced quantitative methods (1 paper) *or* An appropriate special subject in economics selected with the approval of the chairman of the School of Economic Studies (1 paper)
Textile technology (4 papers)

French and Management Studies

A scheme of study extending over a period of three years (with an additional year spent abroad) and leading to the degree of Bachelor of Arts in French and Management Studies.

COURSE REQUIREMENT

For admission to the scheme passes in two approved subjects at advanced level are required and a third is preferred.
One of these passes must be in French.
In addition a good pass in mathematics at ordinary level is required. Preference may be given to candidates with a pass in mathematics at advanced level, but this is not a course requirement.

SCHEME OF STUDY

The course in management studies for the second year includes Management accounting 1 *or* Economic statistics. Candidates wishing to take Quantitative methods in decision making in their final year are required first to have satisfactorily completed one of the two aforementioned courses.
After their second year in the University, candidates will be required to spend a year in a French-speaking country approved by both Departments. During this year, they will *either* follow a course of study at a University or institution of comparable standing *or* be attached to an industrial, commercial or administrative organisation. In neither case, however, can they expect to receive a salary or stipend, and the cost of residence abroad is not included in the normal fee for this course.

During this year, students will also write a long essay concerned either with the course of study they are following or with the organisation to which they are attached. They will also submit such other written work as may be required by the two Departments.

FIRST-YEAR EXAMINATION

1. French: An oral examination in French and two papers as follows:
   (a) French language
   (b) 20th-century French literature and institutions
2. Management Studies: Two papers as follows:
   (a) Management economics
   (b) Introduction to industrial management
3. One other approved subject.

PART I EXAMINATION

Candidates will be examined at the end of the second term of the second year in 17th-century French literature and 18th-century French thought (two 1½-hour papers) and at the end of the third term in Management economics (one 3-hour paper). Candidates will also be required to present at the end of the third term of the second year a project in management studies. These papers and project will constitute Part I of the final examination for the degree of B.A. in French and Management Studies.

FINAL EXAMINATION

The final examination will consist of an oral examination in French and the following papers:
1. Translation into French (1 3-hour paper)
2. Translation into English and essay in French (1 3-hour paper)
3. 19th-century French novel (1 1½-hour paper)
4. Contemporary French history and institutions (1 1½-hour paper)
5. Special subject in French (1 1½-hour paper)
6. Organisation theory (1 3-hour paper)
7. Social and industrial psychology (1 3-hour paper)
8. Applied organisation studies *or* Quantitative methods in decision making (1 3-hour paper)
9. Conference précis-writing (bridge paper) (equivalent to 1 1½-hour paper)

Geography

A scheme of study extending over a period of three years and leading to the degree of Bachelor of Arts in Geography.*

COURSE REQUIREMENT

For admission to the scheme passes in three approved subjects at advanced level are required although exceptionally candidates with two passes will be considered.
One of these passes must be in geography.
The *second* and *third* may be in any approved subject at advanced level though preferably selected from a modern foreign language, economics, history, biology, mathematics.
Passes at least to ordinary level in mathematics and a modern foreign language are desirable.

SCHEME OF STUDY AND EXAMINATIONS

First Year

1. Geographical problems, approaches and concepts (1)
   Environmental physiography 1 (3)
   Evolution of settlement and land use (1)
   Cartography and quantitative methods (3)
2. Economics†
3. Geology†

* For information regarding the scheme of study leading to the degree of Bachelor of Science in geography (one main subject), see the prospectus *Faculties of Science and Applied Science*.

† Another subject may be substituted with the approval of the head of the Department.

A qualifying examination in these three subjects will be held at the end of the first year and must be passed by candidates before they proceed to further study.

1. Geography: four papers as follows:
   (a) Geographical problems, approaches and concepts (1 paper)
   (b) Environmental physiography (1 paper)
   (c) Evolution of settlement and land use (1 paper)
   (d) Cartography and quantitative methods (1 paper)
2. Economics (or another subject)
3. Geology (or another subject).

Conversion to the scheme of study for the degree of Bachelor of Science

Candidates who wish to concentrate more on the natural science than on the social science work in geography in the second and third years may be considered for admission to the scheme of study for the degree of Bachelor of Science. This would entail an extra year of study during which first-year courses in science subjects must be taken.

Second Year

Candidates will be required to attend the following courses:

1. Environmental physiography 2 (2)
2. Systems of spatial organisation (2)
3. Natural resource systems (1)
4. Migration and regional development (1)
5. Urban systems (1)
6. Research methods (3). In conjunction with this course candidates must prepare a research project of suitable scope; this to be undertaken in the long vacation at the end of the second year.
7. An approved course in another subject.

At the end of the second year candidates will present themselves for the Part I examination and must satisfy the examiners before proceeding to further study. A candidate who does not satisfy the examiners at the first attempt will not thereafter be eligible for the award of the degree with honours. The Part I examination consists of the following papers:

1. Environmental physiography (1 paper)
2. Spatial and resource studies (1 paper)
3. Migration, urban and regional studies (1 paper)
4. The approved course in another subject (1 paper)

Third Year

Candidates will be required to attend five courses:

1. Geography seminar (2)
2. *Two* or *three* of the following:*
   Urban and regional analysis (2)
   Resource analysis (2)
   Historical analysis of settlement in Britain (2)
   Urban and regional planning (2)
   Cartography and photogrammetry (3)
3. *One* or *two* of the following:
   China (2)
   Latin America (2)
   U.S.S.R. (2)

* Exceptionally, for *one* of these courses, and with the approval of the head of the Department, a candidate may substitute, from the B.Sc. scheme, *either* Vegetation and conservation *or* Geomorphology 2.

At the end of their third academic year candidates will sit the examination for the degree of Bachelor of Arts in geography, Part II, taking five papers as follows:

1. General paper (1 paper)
2. *Two* or *three* from:
   Urban and regional analysis (1 paper)
   Resource analysis (1 paper)
   Historical analysis of settlement in Britain (1 paper)
   Urban and regional planning (1 paper)
   Cartography and photogrammetry (1 paper)
3. *One* or *two* from:
   China (1 paper)
   Latin America (1 paper)
   U.S.S.R. (1 paper)
4. In addition, all candidates must submit a report on the research project (equivalent of 1 paper)

In both Part I and Part II of the final examination, candidates may be required to present themselves for an oral examination.

Tutorials ranging over the main lecture subjects in geography will be held.

Field work is an integral part of the degree course and will be tested in the qualifying, Part I and Part II examinations in geography. In addition to local projects, all students must attend field training courses in each of the three years; one course will normally be abroad.

Geography and History

A scheme of study extending over a period of three years and leading to the degree of Bachelor of Arts in Geography and History.

COURSE REQUIREMENT

For admission to the scheme passes in two subjects at advanced level are required and a third is preferred.

One of these passes must be in geography.

FIRST-YEAR EXAMINATION

1. Geography: three papers as follows:
   (a) Environmental physiography
   (b) Evolution of settlement and land use
   (c) Cartography and quantitative method
2. History: two papers selected with the approval of the chairman of the School of History from the following:
   (a) The ancient Near East and Greece
   (b) Ancient Rome and the Roman world
   (c) Medieval Europe
   (d) Early modern Europe (to *c.* 1789)
   (e) The making of the modern world.
3. One other approved subject.

FINAL EXAMINATION

1 Environmental physiography
2. Systems of spatial organisation

3. Natural resources and regional development
4.*_Either_ China _or_ U.S.S.R.
5. Historical analysis of settlement in Britain
6. Roman Britain _or_ an alternative subject selected with the approval of the chairman of the School of History
7. The expansion of Europe 1492 to 1783
8. Economic history of the modern world from _c._ 1850
9.*History of Eastern Asia from 1840 _or_ History of Russia from 1856

In the Department of Geography tutorial and essay work is required in all three years and candidates will be required to attend field courses, one of which may be held in a vacation period. Candidates will also be required to attend field courses in connection with the subject Roman Britain. Field work will be tested in the examinations.

Geography and Mathematics

Two schemes of study leading to the degree of Bachelor of Arts in Geography and Mathematics, one scheme extending over three years and the other extending over four years. The scheme to which a candidate is admitted will depend on the candidate's qualifications on entry.

COURSE REQUIREMENTS

For admission to the scheme passes in two approved subjects at advanced level are required and a third is preferred.

One of these passes must be in geography and another pass must be in mathematics. Mathematics should normally include both pure and applied mathematics, either as one subject or as two subjects, but candidates who offer pure mathematics alone or pure mathematics with statistics will be considered.

FIRST-YEAR EXAMINATION (in three-year scheme of study)

1. Geography: three papers as follows:
   (a) Environmental physiography (1 paper)
   (b) Evolution of settlement and land use (1 paper)
   (c) Cartography and quantitative methods (1 paper)
2. Mathematics: 2 papers.
3. One other approved subject (2 or 3 papers according to the subject taken).

FINAL EXAMINATION

The final examination will consist of nine papers: _either_ five geography and four mathematics _or_ four geography and five mathematics.

1. Environmental physiography
2. Systems of spatial organisation
3. Natural resources and regional development
4. Urban and regional analysis
5. 6. 7. 8. Four papers in mathematics
9. An additional paper in geography _or_ in mathematics, to be chosen with the approval of the head of the Department of Geography and the chairman of the School of Mathematics.

In the Department of Geography tutorial and essay work is required in each year of the scheme and candidates will be required to attend field courses, one of which may be held in a vacation period. Field work will be tested in the examinations.

Candidates will be required to attend approved courses in mathematics and statistics, submit written work as directed and pass such examinations as may be prescribed. There will normally be examinations in mathematics and statistics at the end of each year and a candidate may not proceed to more advanced courses in these subjects unless he has passed the examinations on the preceding courses. A candidate's performance in the examinations at the end of the penultimate year will be taken into account in assessing the result of the final examination.

• **Students will be required to select under 9 the option appropriate to their field of regional study under 4.**

Geography and Politics

A scheme of study extending over a period of three years and leading to the degree of Bachelor of Arts in Geography and Politics.

COURSE REQUIREMENT

For admission to the scheme passes in two subjects at advanced level are required.
One of these passes must normally be in geography.
The *second* must normally be in history.

FIRST YEAR. The course of study is identical with that for the degree in economics and politics (q.v.), provided that geography and politics are two of the subjects chosen.

FIRST-YEAR EXAMINATION

1. Geography: three papers as follows:
   (a) Environmental physiography (1 paper)
   (b) Evolution of settlement and land use (1 paper)
   (c) Cartography and quantitative methods (1 paper)
2. Politics: three papers as follows:
   (a) Politics (the political structure of Great Britain)
   (b) British constitutional and political history from 1660
   (c) Introduction to political science
3. *Either* Economics (3 papers)
   or Sociology (3 papers)

FINAL EXAMINATION

1. Environmental physiography
2. Systems of spatial organisation
3. Natural resources and regional development
4. One of the following papers:
   China
   Latin America
   U.S.S.R.
5. Politics 1
6. Politics 2
7. Political and social theory
8. The government of a special area*
9. *Either* another paper in geography offered for students reading for the degree in geography *or* any paper in politics offered for students reading for the degree in political studies, to be chosen with the approval of the heads of the departments.

In the Department of Geography tutorial and essay work is required in all three years and candidates will be required to attend field courses, one of which may be held in a vacation period. Field work will be tested in the examination.

Geography and Sociology

A scheme of study extending over a period of three years and leading to the degree of Bachelor of Arts in Geography and Sociology.

* Students offering the regional geography of China or the U.S.S.R. will normally be expected to choose the government of these areas as their special area in politics.

COURSE REQUIREMENT

For admission to the scheme passes in three approved subjects at advanced level are required although, exceptionally, candidates with two passes will be considered.
One of these passes must be in geography.
A pass at ordinary level in mathematics is normally required.

FIRST YEAR. The course of study is identical with that for the degree in economics and politics (q.v.), provided that geography and sociology are two of the subjects chosen.

FIRST-YEAR EXAMINATION

1. Geography: three papers as follows:
   (a) Environmental physiography (1 paper)
   (b) Evolution of settlement and land use (1 paper)
   (c) Cartography and quantitative methods (1 paper)
2. Sociology: three papers as follows:
   (a) Social institutions and sociological concepts
   (b) The sociology of modern Britain
   (c) Quantitative methods in the social sciences *
3. *Either* Economics (3 papers)
   or Politics (3 papers)

FINAL EXAMINATION

1. Environmental physiography
2. Systems of spatial organisation
3. Natural resources and regional development
4. One of the following papers in geography:
   China
   Latin America
   U.S.S.R.
5. Sociology 1: Central issues, theories and concepts
6. Sociology 2: Structures and processes
7. The institutions of advanced societies
8. One of the following:
   Urban sociology
   Social demography
9. *Either* another paper in geography offered for students reading for the degree in geography *or* any paper available in the Department of Social Studies for students reading for a degree in sociology, to be chosen with the approval of the heads of the Departments.

In the Department of Geography tutorial and essay work is required in all three years and candidates will be required to attend field courses, one of which may be held in a vacation period. Field work will be tested in the examinations.

All candidates must attend a course in cartography and field excursions, as directed, in the Department of Geography as an integral part of the degree requirements.

* With the approval of the head of the Department of Social Studies, candidates may substitute an approved course in pure mathematics for this paper.

International History and Politics

A scheme of study extending over a period of three years and leading to the degree of Bachelor of Arts in International History and Politics.

COURSE REQUIREMENT

For admission to the scheme passes in two approved subjects at advanced level are required and a third is preferred.

One of these passes should be in history.

A reading knowledge of an approved foreign language is required, and a reading knowledge of a second foreign language would be advantageous.

SCHEME OF STUDY

*First Year**

1. History and diplomatic documents
2. Politics
3. Economics

A qualifying examination consisting of three papers in each of History and diplomatic documents and Politics and two papers in Economics, which must be passed by candidates before they proceed to further study, will be held at the end of the first year.

Second and Third Years

1. European social and intellectual history 1815 to 1918
2. History of international relations 1871 to 1949
3. A special subject in diplomatic history (2 papers)
4. Politics (2 papers)
5. International relations
6. International organisations
7. *Either* An optional subject to be selected from the courses offered for the final examination in either the degree in history or the degree in political studies to be selected with the approval of the chairman of the School of History or the head of the Department of Social Studies.

Or A dissertation in history on a subject approved by the chairman of the School of History.

Philosophy and Politics

A scheme of study extending over a period of three years and leading to the degree of Bachelor of Arts in Philosophy and Politics.

COURSE REQUIREMENT

For admission to the scheme passes in two subjects at advanced level are required.
One of these passes must be in history.

* In special circumstances candidates may, with the approval of the chairman of the School of History and the head of the Department of Social Studies, substitute for this normal first-year course a first-year course from another degree scheme.

FIRST-YEAR EXAMINATION

1. Philosophy: two papers as follows:
   (a) Introduction to philosophy
   (b) Reason and argument
2. Politics: three papers as follows:
   (a) Politics (the political structure of Great Britain)
   (b) British constitutional and political history from 1660
   (c) Introduction to political science
3. *Either* Sociology (3 papers)
   or Psychology (3 papers)

FINAL EXAMINATION

1. Political and social philosophy
2. Modern political doctrines
3. Politics (2 papers)
4. The government of a special area or areas
5. Ethics
6. Philosophical problems
7. The history of *either* ancient and medieval *or* modern philosophy
8. A special subject to be chosen with the approval of the heads of the Departments of Philosophy* and Social Studies.

In addition candidates may be required to present themselves for an oral examination.

Philosophy and Psychology

A scheme of study extending over a period of three years and leading to the degree of Bachelor of Arts in Philosophy and Psychology.

COURSE REQUIREMENT

For admission to the course, passes in two subjects at advanced level are required and a third is preferred. Candidates must have a pass in mathematics at ordinary or advanced level and a pass in history at ordinary or advanced level would be an advantage.

FIRST-YEAR EXAMINATION

1. Philosophy:
   (a) Introduction to philosophy
   (b) Reason and argument
2. Psychology:
   (a) General and experimental psychology, individual differences
   (b) Biological psychology; methodology
3. Sociology:
   (a) Social institutions and sociological concepts
   (b) The sociology of modern Britain
   (c) Quantitative methods in the social sciences

FINAL EXAMINATION

1. Philosophical problems
2. The history of *either* ancient and medieval *or* modern philosophy
3. Ethics
4. Philosophy of mind

* If the special subject is in philosophy, candidates may, with the approval of the head of the Department of Philosophy, submit an extended essay of not more than 8,000 words as an alternative to sitting a three-hour paper.

5. The history and methodology of psychology
6. Perception and learning
7. Cognitive psychology, language and thinking
8. Social psychology and personality
9. *Either* A special subject to be chosen with the approval of the heads of the Departments of Philosophy and Psychology.

Or An essay of not more than 8,000 words to be submitted not later than 1 May on a subject which may relate to philosophy or psychology or some topic combining these subjects. The title should be submitted to the heads of the Departments for approval at the end of the second year.

In addition, candidates may be required to present themselves for an oral examination.

Laboratory work in psychology is an integral part of the course and laboratory notebooks will be assessed as part of the final examination.

Philosophy and Sociology

A scheme of study extending over a period of three years and leading to the degree of Bachelor of Arts in Philosophy and Sociology.

COURSE REQUIREMENT

For admission to the scheme passes in two subjects at advanced level are required and a third is preferred. These passes may be in any approved subject.
A pass at ordinary level in mathematics is normally required.

FIRST-YEAR EXAMINATION

1. Philosophy: two papers as follows:
   (a) Introduction to philosophy
   (b) Reason and argument
2. Sociology: three papers as follows:
   (a) Social institutions and sociological concepts
   (b) The sociology of modern Britain
   (c) Quantitative methods in the social sciences*
3. *Either* Politics (3 papers) *or* Psychology (3 papers)

FINAL EXAMINATION

Sociology 1: Central issues, theories and concepts
Sociology 2: Structures and processes
The institutions of advanced societies (1 paper)
Ethics
Philosophical problems
History of ancient and medieval philosophy *or* History of modern philosophy
Political and social theory *or* Political and social philosophy.

Two further papers to be chosen, with the approval of the heads of the Departments of Philosophy and Social Studies, from the subjects which may be offered as options† for the degrees in philosophy or in sociology.

In addition candidates may be required to present themselves for an oral examination.

* With the approval of the head of the Department of Social Studies, candidates may substitute an approved course in pure mathematics for this paper.
† In the case of options in philosophy candidates may, with the approval of the head of the Department of Philosophy, submit an extended essay of not more than 8,000 words in lieu of *one* paper.

Political Studies

A scheme of study extending over a period of three years and leading to the degree of Bachelor of Arts in Political Studies.

COURSE REQUIREMENT

For admission to the course passes in three approved subjects at advanced level are required, although, exceptionally, candidates with passes in two approved subjects will be considered. *One* of these passes should normally be in history, and candidates lacking this qualification will be considered only exceptionally.

SCHEME OF STUDY

First Year

1. Sociology
2. Politics
3. Economics

A qualifying examination consisting of three papers in each of these subjects which must be passed by candidates before they proceed to further study will be held at the end of the first year. The papers will be as follows:

Sociology:
Paper 1 Social institutions and sociological concepts
Paper 2 The sociology of modern Britain
Paper 3 Quantitative methods in the social sciences*

Politics:
Paper 1 Politics (the political structure of Great Britain)
Paper 2 British constitutional and political history from 1660
Paper 3 Introduction to political science

Economics:
Two papers in economic theory and one in economic history

FINAL EXAMINATION

Politics (2 papers)
Political and social theory (1 paper)
Modern political doctrines (1 paper)
British politics since 1914 (1 paper)
Political history of western Europe and the U.S.A. from 1789 (1 paper)

Three of the following:†
The government of a special area or areas
Political sociology
Public finance
A special subject in political theory
International relations
Industrial relations
Political problems of developing countries
Sociological problems of developing societies
Problems of development with special reference to a particular area

* With the approval of the head of the Department of Social Studies, candidates may substitute an approved course in pure mathematics for this paper.
† Not all these subjects will necessarily be offered in any one year and new subjects may be added from time to time.

Politics and Sociology

A scheme of study extending over a period of three years and leading to the degree of Bachelor of Arts in Politics and Sociology.

COURSE REQUIREMENT

For admission to the scheme passes in two approved subjects at advanced level are required and a third is preferred.

One of these passes must be in history.

A pass at ordinary level in mathematics is normally required.

FIRST YEAR. The first-year course for this degree is identical with that for the degree in political studies or sociology (q.v.).

FIRST-YEAR EXAMINATION

1. Politics: three papers as follows:
   (a) Politics (the political structure of Great Britain)
   (b) British constitutional and political history from 1660
   (c) Introduction to political science
2. Sociology: three papers as follows:
   (a) Social institutions and sociological concepts
   (b) The sociology of modern Britain
   (c) Quantitative methods in the social sciences*
3. Economics (three papers)

FINAL EXAMINATION

The final examination will consist of the following papers:

Sociology 1: Central issues, theories and concepts
Sociology 2: Structures and processes
Methods of social investigation (1 paper)
Institutions of advanced societies (1 paper)
Political and social theory (1 paper)
Politics (2 papers)
Two of the following subjects:
  Political sociology
  The government of a special area or areas
  International relations
  Political problems of developing countries

Psychology and Sociology

A scheme of study extending over a period of three years and leading to the degree of Bachelor of Arts in Psychology and Sociology.

COURSE REQUIREMENT

For admission to the scheme passes in two subjects at advanced level are required and a third is preferred. These passes may be in any approved subject.

A pass at ordinary level in mathematics is normally required.

* With the approval of the head of the Department of Social Studies, candidates may substitute an approved course in pure mathematics for this paper.

FIRST YEAR. Candidates for this degree will be required to take psychology, sociology and economics. A qualifying examination consisting of two papers in psychology and three papers in each of the other two subjects will be held at the end of the first year. Candidates must pass this examination before being permitted to proceed to the second year of the scheme.

FIRST-YEAR EXAMINATION

1. Psychology: two papers as follows:
   (a) General and experimental psychology
   (b) Biological psychology; methodology
2. Sociology: three papers as follows:
   (a) Social institutions and sociological concepts
   (b) The sociology of modern Britain
   (c) Quantitative methods in the social sciences*
3. Economics (three papers).

FINAL EXAMINATION

1. Psychology: three papers as follows:
   (a) Perception and learning
   (b) Cognitive psychology, language and thinking
   (c) Social psychology and personality.
2. Sociology: three papers as follows:
   (a) Sociology 1: Central issues, theories and concepts
   (b) Sociology 2: Structures and processes
   (c) The institutions of advanced societies.
3. Two linked papers, one in psychology and one in sociology, selected from the following:
   (a) (i) Developmental and educational psychology
       (ii) Sociology of education 1
   (b) (i) Abnormal and clinical psychology
       (ii) *Either* criminology *or* medical sociology
   (c) (i) Vocational and occupational psychology
       (ii) Industrial sociology.
4. Any one paper selected from those offered for the degree in psychology or sociology subject to the approval of the head of the relevant department.

NOTE: Laboratory work in psychology is an integral part of the degree course and laboratory notebooks will be assessed as part of the final examination.

Religious Studies and Sociology

A scheme of study extending over a period of three years and leading to the degree of Bachelor of Arts in Religious Studies and Sociology.

COURSE REQUIREMENT

For admission to the scheme passes in two approved subjects at advanced level are required and a third is preferred. These passes may be in any approved subject.

A pass at ordinary level in mathematics is normally required.

• With the approval of the head of the Department of Social Studies, candidates may substitute an approved course in pure mathematics for this paper.

SCHEME OF STUDY

FIRST-YEAR EXAMINATION

1. Philosophy and history of religion (2 papers)
2. Sociology: three papers as follows:
   (a) Social institutions and sociological concepts
   (b) The sociology of modern Britain
   (c) Quantitative methods in the social sciences*
3. Politics (3 papers)

FINAL EXAMINATION

Sociology 1: Central issues, theories and concepts
Sociology 2: Structures and processes
The institutions of advanced societies (1 paper)
Philosophy of religion
Islam *or* Hinduism and Buddhism
Nineteenth and twentieth century church history
The sociology of religion

together with two other papers chosen with the consent of the heads of the two departments from courses provided in the Department of Theology or the Department of Social Studies.

Social and Public Administration

A scheme of study extending over a period of three years and leading to the degree of Bachelor of Arts in Social and Public Administration.

COURSE REQUIREMENT

For admission to the scheme passes in two approved subjects at advanced level are required and a third is preferred. These passes may be in any approved subject.

A pass at ordinary level in mathematics is normally required.

SCHEME OF STUDY

First Year

1. Sociology
2. Politics
3. Economics

A qualifying examination consisting of three papers in each of these subjects, which must be passed by candidates before they proceed to further study, will be held at the end of the first year.

The papers will be as follows:

1. Sociology
   (a) Social institutions and sociological concepts
   (b) The sociology of modern Britain
   (c) Quantitative methods in the social sciences*

* With the approval of the head of the Department of Social Studies, candidates may substitute an approved course in pure mathematics for this paper.

2. Politics
   (a) Politics (the political structure of Great Britain)
   (b) British constitutional and political history from 1660
   (c) Introduction to political science
3. Economics

Two papers in economic theory and one in economic history

Second and Third Years

1. The history and principles of social policy (2 papers)
2. Methods of social investigation
3. Social psychology
4. British social and political institutions
5. Economics of the public services
6. Politics 1: British government and administration
7. Political and social theory
8. **One* of the following subjects:
   Modern political doctrines
   Criminology
   Social demography
   The government of a special area
   Local government
   Political sociology
   Problems of health and disease
   The family
   Urban society

The final examination will consist of nine papers taken at the end of the third academic year in the second and third year subjects.

Sociology

A scheme of study extending over a period of three years and leading to the degree of Bachelor of Arts in Sociology.

COURSE REQUIREMENTS

For admission to the scheme passes in two approved subjects at advanced level are required and a third is preferred. These passes may be in any approved subject.
A pass at ordinary level in mathematics is normally required.

SCHEME OF STUDY

First Year

1. Sociology
2. Politics
3. Economics

A qualifying examination consisting of three papers in each of these subjects, which must be passed by candidates before they proceed to further study, will be held at the end of the first year.

The papers will be as follows:

1. Sociology:
   (a) Social institutions and sociological concepts
   (b) The sociology of modern Britain
   (c) Quantitative methods in the social sciences†

* Not all these subjects will necessarily be offered in any particular session, and new subjects may be added from time to time.
† With the approval of the head of the Department of Social Studies, candidates may substitute an approved course in pure mathematics for this paper.

2. Politics:
   (a) Politics (the political structure of Great Britain)
   (b) British constitutional and political history from 1660
   (c) Introduction to political science.
3. Economics:

Two papers in economic theory and one in economic history.

Second and Third Years

1. Sociology 1: Central issues, theories and concepts
2. Sociology 2: Structures and processes
3. Methods of social investigation (1 paper)
4. The institutions of advanced societies (1 paper)
5. Social psychology (1 paper)

together with *one* of the following groups:

Group A (*Social Administration*)

(i) The history and principles of social policy (2 papers) and *two* of the following subjects:

(ii) (a) Criminology (1 paper)
(b) Problems of health and disease (1 paper)
(c) Sociology of education 1 (1 paper)
(d) Social demography (1 paper)
(e) Political and social theory (1 paper)
(f) The family (1 paper)
(g) Urban society (1 paper)

Group B (*Sociological Studies*)

(i) Selected problems in sociological analysis (1 paper)

together with *three* of the following:

(ii) (a) Political and social theory (1 paper)
(b) Criminology (1 paper)
(c) Sociology of religion (1 paper)
(d) Political sociology (1 paper)
(e) Social demography (1 paper)
(f) Industrial sociology (1 paper)
(g) Urban society (1 paper)
(h) The family (1 paper)
(i) Sociology of education 1 (1 paper)
(j) Sociology of education 2 (1 paper)
(k) Medical sociology

Group C (*Development Studies*)

(i) Sociological problems of developing societies
(ii) Political problems of developing countries
(iii) Economic development
(iv) Problems of development with special reference to a particular area

Group D (*Quantitative Methods*)

Students selecting this group must have taken mathematics to advanced level in the General Certificate of Education examination. They will normally be expected to take mathematics at the qualifying examination in place of Paper (c) in sociology.

(i) Methods of social statistics (2 papers)
(ii) Sample survey theory and methods (1 paper)
(iii) Social demography (1 paper)

The options listed above in the various groups will not necessarily all be available in any one session, and new options may from time to time be added subject to approval by the Board of Faculty.

The final examination will consist of nine papers taken at the end of the third academic year in the second- and third-year subjects.

Prescribed Schemes of Examination for the Degree of Master of Arts

Agricultural Economics

The scheme of advanced study leading to the degree of Master of Arts by examination in agricultural economics will extend over one academic year, starting in October.

Candidates will normally be graduates in economics or agricultural economics. Candidates admitted to the scheme will take courses of lectures leading to an examination in each course as indicated (at the discretion of the examiners an oral examination may be included).

Methodology of agricultural economics (1 paper)
and *either* Advanced agricultural economics (3 papers)
or Advanced agricultural economics (1 paper)
and one of the following (2 papers):
Agricultural development
Agricultural production economics
Agricultural marketing

Economic Studies

The schemes of advanced study leading to the degree of Master of Arts by examination in subjects within the School of Economic Studies will extend over one academic year, starting in October.

It is expected that candidates taking the specialist fields, economic statistics, economic development, transport economics and labour economics will be graduates in economics, while candidates taking economic history will be graduates in economic history, or have followed degree schemes with substantial economic history content.

Candidates admitted to the schemes will take courses of lectures in one of the following specialist fields leading to an examination in each course as indicated (at the discretion of the examiners an oral examination may be included).

Economic Statistics

Advanced economic theory (1 paper)
Methodology of economic statistics (1 paper)
Two special courses in economic statistics (2 papers)

Economic Development

Advanced economic theory (1 paper)
Methodology of economic development (1 paper)
Two special courses in economic development (2 papers)

Transport Economics

Advanced economic theory (1 paper)
Methodology of transport economics (1 paper)
Two special courses in transport economics (2 papers)
A course project

Labour Economics

Advanced economic theory (1 paper)
Methodology of labour economics (1 paper)
Two special courses in labour economics (2 papers)

Economic history

Advanced economic theory (1 paper)
Methodology of economic history (1 paper)
Two special courses or periods in economic history (2 papers)

Management Science

The scheme of advanced study leading to the degree of Master of Arts by examination in Management Science is offered jointly by the Departments of Management Studies and Computational Science, and will extend over one academic year starting in October.

Candidates will normally be graduates in a pure science, applied science, or quantitative social science, but consideration may be given to graduates in other subjects who can show sufficient evidence of numeracy.

Candidates admitted to the scheme will proceed by:

1. Attending approved courses of advanced study as follows:
   (a) Operational research and *either*
   (b) (i) Systems models of the firm
   *(ii) One course determined each year by the head of the Department of Management Studies

   or

   (c) (i) Computing (first term) followed by one course determined each year by the head of the Department of Computational Science †
   (ii) Operational research practice and elementary statistics (first term), followed by Operational research and its environment
2. Preparing a dissertation on an investigation in connection with one of their fields of study.

The examination will normally consist of four written papers of three hours each, an assessment of the dissertation and of other work undertaken during the course and, at the discretion of the examiners, an oral examination.

Mongolian Studies

The scheme of advanced study leading to the degree of Master of Arts by examination in Mongolian Studies will extend over one academic year starting in October.

Candidates will normally be graduates with a good honours degree and should possess an appropriate qualification such as the diploma in Mongol language and Mongolian studies of this University, or its equivalent from another university.

The course will consist of an advanced study of the Mongol language, including Mongol script. Candidates will be expected to work on the translation of contemporary Mongol documents of social and historical significance. The social and political relationships of Mongolia with Russia and China will receive special consideration.

The course will consist of lectures and seminars totalling 100 hours.

The scheme of examination will be as follows:

2 papers in Mongol history and contemporary institutions
2 papers in Mongol language
An oral examination
A dissertation.

Organisation Studies

The scheme of advanced study leading to the degree of Master of Arts by examination in organisation studies will extend over one academic year starting in October.

Candidates admitted to the scheme may proceed by:

1. Attending approved courses of advanced study as follows:
   (a) Theories of organisation

* The course for 1971-2 will be Socio-technical systems.

† The course for 1971-2 will be Advanced operational research techniques.

(b) Social psychology of organisations
(c) One special subject selected from the following, the choice being subject to the approval of the head of the Department of Management Studies:

(i) Manpower studies
(ii) Organisational ecology
(iii) Methods of diagnosis in organisations
(iv) Models and methods of decision-making
(v) Processes of social and economic change within organisations
(vi) Information and control processes within organisations.

Not all of these courses will necessarily be available in each year.

2. Preparing a dissertation on an investigation in connection with one of their fields of study.

The examination will normally consist of three written papers of three hours each, an assessment of the dissertation and at the discretion of the examiners an oral examination.

A candidate who fails to present himself for examination at the end of the academic year in which he took the course may present himself for examination at the end of the subsequent academic year subject to the approval of the head of the Department of Management Studies. A candidate who presents himself for examination but does not satisfy the examiners may be given permission to present himself for examination in the succeeding year if the examiners so recommend. No candidate shall present himself for examination more than two years after the end of the academic year in which he was first registered for the course.

Politics

The scheme of advanced study leading to the degree of Master of Arts by examination in Politics will extend over one calendar year starting in October.

Candidates admitted to the scheme will be examined in:

(1) Comparative government (1 paper)
(2) Political sociology (1 paper)
(3) A long essay on a special subject approved by the tutor
(4) Presentation of two reports on topics within the special subject to be approved by the tutor
(5) An oral examination if required by the examiners.

For 1971-72 the special subject will be the government and politics of South and East Asia.

Sociology

The scheme of advanced study leading to the degree of Master of Arts by examination in Sociology will extend over one calendar year starting in October.

Candidates admitted to the scheme will be examined in:

(1) Methods of social investigation (1 paper)
(2) A special subject (1 paper)
(3) Presentation of written work (one essay each term) in association with the special subject
(4) Presentation of two reports on specified sociological subjects to be approved by the tutor
(5) An oral examination if required by the examiners.

For 1971-72 the special subject will be chosen from *one* of the following areas:

(i) Sociology of industry
(ii) Sociology of education
(iii) Sociology of developing countries

Prescribed Schemes of Examination for the Degree of Master of Philosophy

Agricultural Economics

A thesis on a subject approved by the Senate.

Chinese Studies

A thesis on a subject approved by the Senate.

Economics

A thesis on a subject approved by the Senate.

Geography

A thesis on a subject approved by the Senate.

Politics

1. Three papers, one of which will be on the general field of study and two on special subjects: one of the latter will be related to the subject of the candidate's dissertation.
2. A dissertation on a subject approved by the Senate.
3. An oral examination.

Sociology

1. Three papers, one of which will be on the general field of study and two on special subjects: one of the latter will be related to the subject of the candidate's dissertation.
2. A dissertation on a subject approved by the Senate.
3. An oral examination.

Regulations for Diplomas and Certificates

Diploma in Development Administration

Qualifications for Admission

While a University degree (preferably in economics, commerce, politics or public administration) is a desirable qualification, it is not regarded as essential.

Applicants without university degrees will be considered for admission if they have had suitable practical experience and/or possess appropriate professional qualifications. A maximum of twenty members will be admitted to each course.

Candidates may apply individually or be recommended by governments or other public authorities. Interviews will be arranged and, if necessary, tests prescribed for applicants. All applicants must provide evidence of having achieved the required degree of competence in the English language.

SCHEME OF STUDY

The scheme of study will extend over one academic year of full-time study and will include field instruction in the Christmas and Easter vacations.

Students must attend the prescribed courses and field instruction satisfactorily and satisfy the examiners in the examinations and other tests and assignments prescribed.

They will also be required to spend about a month attached to a public enterprise, either in Britain or abroad, and to make written or oral reports to their field-work supervisor as may be required.

SCHEME OF STUDY FOR THE DIPLOMA

1. Lecture courses:
   (a) Economic development
   (b) Politics and administration in the developing areas
   (c) Public enterprise
   (d) Industrial management and industrial relations
   (e) Agricultural development and administration
2. Seminar work
3. Essays as may be required.

During term-time, class work will occupy between twelve and fifteen hours a week.

EXAMINATION

The final examination will consist of five papers, one on each lecture course, and will include an assessment of the candidate's work and field projects undertaken during the year.

A diploma with distinction may be awarded to a student whose work is judged to be of outstanding merit.

Postgraduate Diploma in Health Services Administration

This diploma course is intended both for those considering or pursuing a career in health services administration, including hospital administration, and as an introduction to the subject for those who are interested in research into the organisation, operation and administration of health services. In addition to the course a period of observation of the operation and administration of the National Health Service may be prescribed at the discretion of the University. The length and nature of this period would be determined in the light of the candidate's previous experience.

Any candidate entering upon the course must have graduated at an approved university or hold an approved professional qualification. Exceptionally, other candidates may be accepted for the course either by passing a special examination or by submitting evidence, acceptable to the Senate, to show that they are at a sufficient standard to undertake the course.

The course, which extends over one academic session, requires candidates to prepare for examination in three compulsory subjects and one optional subject, as below:

Social structure, public and social administration
Community health care
Social psychology of organisations and one of the following:
Statistics including statistical method
Comparative medical care
Economics and accounting
Medical sociology
Social research methods

or at the discretion of the director of the course, one other subject in the field of health services administration

or a dissertation of 5,000 to 8,000 words on a topic to be approved by the director of the course.

A candidate who has previously successfully completed, for his first degree, a course of study of a major part of one of the compulsory subjects listed above will be required to take a second elective subject.

A diploma may be awarded with distinction to a candidate whose work is judged to be of outstanding merit.

Postgraduate Diploma in Mongol Language and Mongolian Studies

The diploma course is intended for those who are planning to go on to become specialists on Mongolia, its language, history and institutions, or for those who, already having a degree in Chinese, Japanese, or Russian studies, want to add Mongolian studies as a subsidiary interest and qualification. In the special case of linguists who want to study Mongol as a non-Indo-European language for comparative purposes, the course could be modified to include more intensive language work.

The course will extend over one academic year. A candidate will be required:

1. To attend approved courses
2. To work in the language laboratory, using taped exercises in pronunciation and conversation
3. To read and translate assigned texts
4. To attend lectures on the history and social, political and economic institutions of Mongolia and, after the first term, to write papers for seminar discussion
5. To satisfy the examiners by passing an oral and a written examination.

The examination will consist of four three-hour papers:

Mongol language—translation into English
Written Mongol—translation from English
Mongolian history 1911 to 1961
Mongolian institutions
and a dissertation on an approved or prescribed subject.

A diploma may be awarded with distinction to a candidate whose work is judged to be of outstanding merit.

Certificate in Applied Social Studies

For information regarding the course leading to the award of the certificate in applied social studies, see the prospectus, *Faculty of Arts 1971-2*, pp C9 and C137.

African Economic Studies

In December 1963, the Leeds University Senate set up a standing committee on African studies to co-ordinate the wide interests in diverse fields of study related to Africa which had already developed within several departments in four faculties. At the same time an African studies unit was established which now provides valuable liaison and bibliographical services as well as publishing the *Leeds African Studies Bulletin.*

In addition limited provision has been made for financing research visits to Africa by staff and postgraduate students.

The University library takes the major official statistical publications of all English-speaking African countries and is expanding its African collection generally. It has also undertaken to be responsible for Congo (Leopoldville), Burundi and Rwanda under a scheme organized by the Standing Council on Library Materials on Africa. The School of Economic Studies has a comprehensive collection of post-war economic material on East Africa.

The School of Economic Studies has on its staff a number of economists with considerable experience in Africa as teachers, government officials, research workers or consultants. Post-graduate research in the School has included studies related to Egypt and studies of monetary and financial development in Ghana, Rhodesia and East Africa. Current East African studies include industrial location, common-market problems, aid and external finance in Uganda, the sisal industry in Tanzania and an analysis of capital formation in Zambia.

Research Opportunities

In 1965 the School obtained a grant from the Ministry of Overseas Development to develop economic research with special reference to East Africa. This grant provides for the award of junior research fellowships to graduates of United Kingdom universities wishing to do research (including field-work in Africa) on some aspect of the economic development of East Africa, under the general supervision of the School of Economic Studies.

The stipend will be within the range £550 to £750 per annum according to qualifications and taking into consideration the cost of living in East Africa. Provision is made for return air fare and other travel expenses involved in field-work, including the use of a car in Africa. Funds are also available for publication where appropriate.

Applications for the ensuing academic year are normally invited each Easter from graduates and from finalists expecting to graduate in the summer. The awards are made in July for one year in the first instance but are normally renewable for up to three years.

Normally junior fellows will wish to register for a research degree of the University of Leeds, which will involve at least two years' study including one year's residence in Leeds. For junior fellows who have just graduated the normal pattern for a Ph.D. would be: a year in Leeds, a year in East Africa and a final year in Leeds, writing the thesis.

While fellows are in East Africa arrangements are made for registration with one of the three colleges or for associate status in their research institutes. There is a very close contact between all of these and the Leeds School of Economic Studies, and the opportunities within the research programmes are wide and stimulating.

Courses in the Faculty of Economic and Social Studies

The book lists are intended only to indicate the most accessible introductory and general reading for the several courses. More detailed reading lists and syllabuses are, in most cases, given by the lecturers to those who attend the courses.

Agricultural Economics

For the degree of Master of Arts in agricultural economics

Advanced Agricultural Economics

(a) For *all* students reading for the degree of Master of Arts in agricultural economics.
1 hour a week.
Economic theory applied to agricultural problems.
EXAMINATION: 1 paper of 3 hours.

(b) For students taking the general option.
2 hours a week.
Selected topics in the fields of the economics of agricultural production, marketing, development and land use.
EXAMINATION: 2 papers of 3 hours each.

Methodology of Agricultural Economics

For *all* students reading for the degree of Master of Arts in agricultural economics.
1 hour a week.
The theory and methods of agricultural economic research.
EXAMINATION: 1 paper of 3 hours.

Agricultural Development

An optional subject for students reading for the degree of Master of Arts in agricultural economics.
2 hours a week.
A course covering such topics as subsistence agriculture and its technical and sociological background, resource allocation in traditional agriculture, extension and rural community development, marketing and credit, the transformation and evolutionary approach to agricultural development, project planning and appraisal.
EXAMINATION: 2 papers of 3 hours each.

Agricultural Marketing

An optional subject for students reading for the degree of Master of Arts in agricultural economics.
2 hours a week.
A course covering such topics as price analysis, market intelligence and outlook work, problems in distribution at wholesale and retail levels in advanced mixed economies, marketing in developing countries, marketing in socialist societies, international trade aspects, economics of industries processing agricultural products.
EXAMINATION: 2 papers of 3 hours each.

Agricultural Production Economics

An optional subject for students reading for the degree of Master of Arts in agricultural economics.
2 hours a week.
A course covering such topics as functional relationships, resource use theory, optimisational concepts, simulation, games theory, linear and dynamic programming, stochastic models, critical path analysis, risk and uncertainty, growth theory, behavioural theory and decision making processes.
EXAMINATION: 2 papers of 3 hours each.

Chinese Studies

Chinese Studies 1

FIRST YEAR

Chinese language. Prescribed texts and language laboratory material.
13 hours a week of lectures and tutorials.

Chinese studies.
One hour a week.
Introduction to the study of pre-modern Chinese history and culture with reference to selected topics from the neolithic period to the eighteenth century.

Chinese Studies 2

SECOND YEAR

Chinese language and literature. Prescribed texts and language laboratory material.
14 hours a week of lectures and tutorials.

Chinese studies.
2 hours a week.
(a) Chinese institutions: the social, political and economic institutions of traditional and modern China.
(b) The history of modern China.

Chinese Studies 3

THIRD YEAR

Chinese language, literature and documents. Prescribed texts and language laboratory material.
11 hours a week of lectures and tutorials.

Chinese studies (political and economic institutions, modern history).
2 hours a week.
(a) Chinese institutions: as in the second-year course, but including the reading of selected Chinese material and seminar discussion.
(b) Rebellion and revolution in Chinese history. This course examines, with reference to selected original documents, rebellions and revolutionary movements from late Ch'in onwards, seen in relation to the social structure.

The economy of China.
A course given *only* for students taking the economics option in the Chinese Studies scheme. It covers the economic developments in China since 1949, and is examined separately by one paper.

Chinese Studies 4

FOURTH YEAR

Courses on Chinese language, literature and documents.
Prescribed texts and language laboratory material.
10 hours a week of lectures and tutorials.

EXAMINATION: 5 papers and an oral examination.

Economics

First Year

Economics S1

Monday 12 to 1 and Thursday 10 to 11.

For first-year students reading for the degree of Bachelor of Arts in economics, economics and geography, economics and history, economics and politics, economics and sociology, Chinese studies or economics and textile industries.

Methodology; the nature of the economy; the concepts of income, consumption, saving, investment, capital, and wealth; market and non-market economies and the nature of the pricing system; the flows of product, income and expenditure and the social accounts; the input-output table; the nature and functions of money; the determination of the level of activity; the influence of public and external transactions; the general price-level; the growth of the economy, fluctuations and equilibrium.

EXAMINATION: 1 paper of 3 hours.

Economic Statistics 1

Thursday 12 to 1 and one weekly class.

For first-year students reading for the degree of Bachelor of Arts in economics, economic history or economics and textile industries.

Published statistical data and their sources. Tabular and graphical presentation. Averages and measures of dispersion. Standardisation and demographic measures. Theory and practice of index numbers. Frequency distributions and their description. Simple correlation and regression. Elementary analysis of time series. Descriptive analysis of economic data.

EXAMINATION: 1 paper of 3 hours.

Mathematical Concepts in Economic Theory

Tuesday 12 to 1 with classes weekly or fortnightly.

For first-year students reading for the degree of Bachelor of Arts in economics, economics and geography, economics and history, economics and politics, economics and sociology, Chinese studies or economics and textile industries.

A course designed to introduce students to the use of mathematical concepts as tools of economic analysis.

EXAMINATION: 1 paper of 3 hours.

Accounting

Monday 10 to 11 and Wednesday 11 to 12.

For first-year students reading for the degree of Bachelor of Arts in economics or economics and textile industries.

Mathematical techniques for accounting. The scope and purpose of accounting. Balance sheets and income statements and their underlying concepts. Analysis and interpretation of accounting information. The valuation of business enterprises. The effect of changing price levels. An introduction to the control and decision-making aspects of accounting, budgetary control, break-even analysis and investment appraisal. National income accounting; macroeconomic aggregates, the contribution of enterprises, and a comparative study of methods.

EXAMINATION: 1 paper of 3 hours.

General Economics 1

Tuesday and Thursday 10 to 11.

For first-year students reading for the degree of Bachelor of Arts in economic history or economic history and geography, and for those taking economics as a subsidiary subject.

A general course including elements of social accounting, monetary systems, theory of production, demand, supply, price formation, distribution, industrial organisation, the level of activity and public policy.

BOOKS

Bach, *Economics: An Introduction to Analysis and Policy*
Reynolds, *Economics: A General Introduction*
Speight, *Economics: The Science of Prices and Incomes*
Stigum, *Economics*
Croome, *Introduction to Money*
Stewart, *Keynes and After*
Brooman, *Macroeconomics*
Samuelson, *Economics: An Introductory Analysis*

EXAMINATION: 2 papers of 3 hours each.

British Economic History 1750-1914

Friday 11 to 12.

For first-year students reading for the degree of Bachelor of Arts in economics, economics and geography, economics and history, economics and politics, economics and sociology, and economic history and geography.

The process of industrialization and the parts played by technology, transport, capital, labour and foreign trade. The subsequent development of modern industrial capitalism and the problems it began to encounter in the decades before the first World War.

BOOKS

Phyllis Deane, *The First Industrial Revolution*
T. S. Ashton, *The Industrial Revolution*
J. D. Chambers, *Workshop of the World*
W. H. B. Court, *Concise Economic History of Britain*
W. Ashworth, *An Economic History of England, 1870-1939*

EXAMINATION: 1 paper of 3 hours.

Second Year

General Economics 2

Tuesday and Thursday 9 to 10.

For second-year students reading for the degree of Bachelor of Arts in economic history, economic history and geography.

The course: (1) outlines the main stages in the development of economic theories; (2) deals with the determinants of individual and aggregate consumption; (3) analyses the cost and revenue structures of firms in different market conditions; (4) deals with the determinants of factor prices; (5) contrasts the approach to the problem of full employment of the 'classical' writers with that of the 'Keynesians' and evaluates market structures from the point of view of efficiency and equity; (6) develops some theoretical points arising from the interdependence of national economies and deals with the basic mechanisms involved in international trade.

BOOKS

Scitovsky, *Welfare and Competition*
Schumpeter, *Capitalism, Socialism and Democracy*
Stonier and Hague, *A Textbook of Economic Theory*, 3rd edition
Ackley, *Macroeconomic Theory*

EXAMINATION: 1 paper of 3 hours.

Economics S2

Tuesday and Thursday 9 to 10.

For second-year students reading for the degree of Bachelor of Arts in economics, economics and geography, economics and history, economics and politics, economics and sociology, Chinese studies or economics and textile industries.

The theory of consumers' choice; demand functions and general methods of estimating them; the theory of the firm—perfect competition, monopoly, monopolistic competition, and oligopoly; supply functions—short and long-term; investment criteria for the firm; its factor-supply and growth; the markets for factors of production; theories of distribution between factors; welfare economics—the consumers' surplus, criteria of optimality, and their application to pricing, taxation control of monopoly, foreign trade, and public investment.

EXAMINATION: 1 paper of 3 hours.

Economic Statistics 2

Monday 3 to 4, and Thursday 11 to 12, and one weekly class.

For second-year students reading for the degree of Bachelor of Arts in economics.

Probability, expectation and moments. Discrete and continuous probability distribution. Large sample theory. Principles of estimation and hypothesis testing. Small sample theory; χ^2-, F- and t-distributions. χ^2-test. Analysis of variance. Simple and multiple regression with significance tests. Application of statistical methods to economic problems.

EXAMINATION: 1 paper of 3 hours.

Industry and Labour

Monday and Wednesday 10 to 11.

For second-year students reading for the degree of Bachelor of Arts in economics and as an optional subject for students reading for the degree of Bachelor of Arts in economic history, economics and geography, economics and history, economics and politics, economics and sociology and economics and textile industries.

Economics of Industry

Nature of the industrial structure. Industries, markets and firms. Business behaviour and theories of the firm. The growth and development of firms. Cost and scale economies, diversification and concentration. Market power and entry barriers. Advertising and differentiation. Control of market behaviour and structure. Sources of industrial finance. Public sector pricing and investment—principles and practice. Location of industry—principles and practice. Regional policy.

Labour Economics and Industrial Relations

The growth, organisation and working of labour markets. The labour force, labour mobility and the distribution of employment. The structure and operation of unions and employers' organisations. Theory and practice of wage determination. The structure and general level of real and money wages. The legal framework of labour relations, collective bargaining and strikes. The role of the State in manpower and employment policy; wages and incomes policy.

EXAMINATION: 1 paper of 3 hours.

The British Economy and its Management

Monday 9 to 10 and Wednesday 12 to 1.

For second-year students reading for the degree of Bachelor of Arts in economics and as an optional subject for second-year students reading for the degree of Bachelor of Arts in economics and geography, economics and politics, economics and sociology, or economics and textile industries.

The history of the British economy since 1914

This course examines the impact of the two world wars upon the British economy and the subsequent periods of reconstruction. The analysis of the inter-war years includes a discussion of the trade cycle, economic policy, foreign trade, population, national income, industry and labour.

BOOKS

W. Arthur Lewis, *Economic Survey, 1919-1939*
W. Ashworth, *An Economic History of England, 1870-1939*
C. L. Mowat, *Britain Between the Wars, 1918-1940*
A. G. Youngson, *The British Economy, 1920-1957*
S. Pollard, *The Development of the British Economy, 1914-1950*

The management of the economy since 1945

This part of the course deals with the objectives and techniques of management including budgetary and monetary policy and direct controls. It examines the behaviour of the economy since 1945 in relation to management problems.

EXAMINATION: 1 paper of 3 hours.

English Economic History 1066–1914

Tuesday 3 to 4 and Thursday 4 to 5.

For first-year students reading for the degree of Bachelor of Arts in economic history, and second-year students reading for the degree of Bachelor of Arts in economic history and geography, economics and history, and geography.

An outline course covering the period between the Norman Conquest and the First World War.

BOOKS

Sidney Pollard and David W. Crossley, *The Wealth of Britain*
Phyllis Deane, *The First Industrial Revolution*
Peter Mathias, *The First Industrial Nation*

EXAMINATION: 1 or 2 papers of 3 hours each.

Recent Economic History

Tuesday and Friday 3 to 4.

For second-year students reading for the degree of Bachelor of Arts in economic history and for third-year students reading for the degrees of Bachelor of Arts in economics and history or economic history and geography or Bachelor of Science in combined studies.

The British Economy since 1914

This course examines the impact of the two World Wars upon the British economy and the subsequent periods of reconstruction. The analysis of the inter-war years includes a discussion of the trade cycle, economic policy, foreign trade, population, national income, industry and labour.

BOOKS

W. Arthur Lewis, *Economic Survey, 1919-1939*
W. Ashworth, *An Economic History of England, 1870-1939*
C. L. Mowat, *Britain between the Wars, 1918-1940*
A. J. Youngson, *The British Economy, 1920-1957*
S. Pollard, *The Development of the British Economy, 1914-1950*

American Economic History, 1830-1941

This course outlines the growth of the United States since 1830, industrialisation, regional development, connections with Europe, the trade cycle, concentration of industry and economic reform from the point of view of economic development.

BOOKS

P. d'A. Jones, *The Consumer Society*
R. M. Robertson, *History of the American Economy*
L. E. Davies *et al.*, *American Economic History*
D. C. North, *Growth and Welfare in the American Past*

EXAMINATION: 1 paper of 3 hours.

Historical Statistics and Sources

For second-year students reading for the degree of Bachelor of Arts in economic history.

The examination of major documents, printed and statistical source material specially suited to enquire into economic history, together with important instances of their use by economic historians in published work. The statistical sources would mainly be those in B. R. Mitchell and Phyllis Deane, *Abstract of British Historical Statistics* (C.U.P., 1962).

EXAMINATION: 1 paper of 3 hours.

The History of the State and the Economy

For second-year students reading for the degree of Bachelor of Arts in economic history.

An account of the development of those institutions through which first the monarchy and then the central and local government of the modern state developed powers to tax; to regulate and encourage economic enterprise; to create a welfare state; and to develop public ownership.

EXAMINATION: 1 paper of 3 hours.

Comparative Economic Systems and Economic Development

Tuesday 12 to 1 and Friday 2 to 3.

An optional subject for second-year students reading for the degree of Bachelor of Arts in economics, economic history, economics and geography, economics and history, economics and politics, economics and sociology, economics and textile industries or (for second or third-year students) Chinese studies.

A synthetic analysis of stage of development in relation to market economies and centrally planned economies, bringing out the difference and similarities between capitalism and socialism and examining their convergence or divergence.

EXAMINATION: 1 paper of 3 hours.

Quantitative Methods in Decision Making

Tuesday 4 to 5 and Wednesday 9 to 10.

For second-year students reading for the degree of Bachelor of Arts in economics and textile industries and as an optional subject for second-year students reading for the degree of Bachelor of Arts in economics.

Operations Research

This is an introductory course in operations research emphasising the contribution that simple analytical tools can make to economic analysis. Topics include linear programming, game and decision theory, capital theory and capital budgeting, and their applications to economic theory and policy.

Management Accounting

This course builds on Accounting 1 and examines the contribution of accounting data to business decision making. Topics include business objectives and uncertainty, general budgeting, pricing and break-even analysis, and investment decisions.

EXAMINATION: 1 paper of 3 hours.

International Economics

Tuesday and Thursday 4 to 5.

An optional subject for second-year students reading for the degree of Bachelor of Arts in economics, economic history, economics and geography, economics and history, economics and politics, economics and sociology or (for second or third-year students) Chinese studies.

International Monetary Economics

The balance of payments, the foreign exchange market and the concept of external balance; national policies, the balance of payments, and adjustment mechanism under the present international monetary system; transfers (investment and aid) reform of the international monetary system.

Theory of International Trade

General equilibrium analysis and the theory of comparative advantage; factor mobility and location problems; trade and income distribution; gain from trade and instruments of commercial policy; special problems of less developed countries; the theory of commercial policy, customs unions.

EXAMINATION: 1 paper of 3 hours.

Supplementary Mathematics and Statistics

Monday 12 to 1 and Tuesday 2 to 3.

An optional subject for second-year students reading for the degree of Bachelor of Arts in economics.

Differentiation and integration. Multiple integrals. Restricted maxima and minima. Differential and difference equations. Determinants and matrices. Applications in economic theory.

Theoretical aspects of statistical methods, including moment generating functions, properties of estimators and maximum likelihood, relationships between standard statistical distributions, correlation and regression theory.

EXAMINATION: 1 paper of 3 hours.

Accounting 2

Monday 12 to 1 and Tuesday 2 to 3.

An optional subject for second-year students reading for the degree of Bachelor of Arts in economics.

Company Accounts

The application to limited companies of the principles established by the first-year course Accounting 1, supplemented by those aspects of company and revenue law essential to understanding and constructing the published financial statements of limited companies.

EXAMINATION: Parts of 1 paper of 3 hours.

Mergers

The two parts of this course reflect the ways in which the resources of more than one business entity may be brought under common control:

(a) Amalgamations (acquisition of assets)
The elementary principles underlying amalgamations and the accounting implications for both purchaser and vendor.

(b) Holding company scheme (acquisition of shares)
The principles and law governing the financial statements published by holding companies.

EXAMINATION: Parts of 1 paper of 3 hours.

Third year

Development of Modern Economic Thought

Thursday 2 to 3 and Friday 12 to 1.

For third-year students reading for the degree of Bachelor of Arts in economics, economic history, economics and geography, economics and history, economics and politics, economics and sociology, economic history and geography, economics and textile industries and for fourth-year students reading for the degree of Bachelor of Arts in Chinese studies.

The origins and content of current developments in economic thought as to methodology and in respect of:

(i) the allocation of resources and income
(ii) growth and development
(iii) monetary theory and policy
(iv) regional and international economics.

EXAMINATION: Parts of 1 paper of 3 hours.

Advanced Quantitative Methods

Friday 10 to 11.30.

An optional subject for third-year students reading for the degree of Bachelor of Arts in economics or economics and textile industries.

This is an intermediate course in the application of mathematical methods to problems in management and economics. Topics include mathematical programming and industrial applications, transport problems, network analysis, and queueing theory.

EXAMINATION: 1 paper of 3 hours.

Accounting 3

An optional subject for third-year students reading for the degree of Bachelor of Arts in economics. Students choosing option B take Management accounting (B), Business finance, Taxation, and Income measurement and valuations. Students choosing options C and D take Management accounting (B) and Business finance.

Management Accounting (B)

Wednesday 10 to 11.

This course examines the contribution of accounting data to business control and stock valuation. Topics include costing systems and cost allocation, standard costing, and assessing performance.

EXAMINATION: 1 paper of 3 hours.

Business Finance

Tuesday 11 to 12.

The theory of business finance; the cost of corporate capital for static and growing firms; the effect of leverage. Optimal dividend policy. Optimal financing policy.

Financial management: cash and working capital management. Sources of long and medium term finance. Planning the firm's capital structure. Influence of stock market behaviour on financing decisions.

EXAMINATION: 1 paper of 3 hours.

Taxation

Friday 9 to 10.

Taxation as it affects limited companies.

EXAMINATION: Parts of 1 paper of 3 hours.

Income Measurement and Valuations

Thursday 10 to 11.

(a) A comparison of current accounting practice regarding business income determination and asset valuation with the views of those economists who have influenced accounting thought and a critical examination of suggested improvements in income measurement

(b) Theory and practice of share valuation and its application to mergers and amalgamations.

EXAMINATION: Parts of 1 paper of 3 hours.

Special Subjects

One and a half hours each at times to be arranged.

For third-year students reading for the degree of Bachelor of Arts in Economics (options A and E) and for all other third-year students reading for degrees in which one (or more) special subject in economics is specified.

A wide choice of special subjects, representing the specialist interest of members of staff will be offered each year at the appropriate time. Some of these may require that certain second-year optional courses have been taken and/or that they should be combined with one of the following courses which will normally be available as special subjects every year:

Monetary theory and institutions
Public finance
Labour economics
Industrial relations
Industrial economics
Economic history (one or more courses).

The Economics of the Public Services

For third-year students reading for the degree of Bachelor of Arts in social and public administration.

The principles of welfare economics; public finance; the economics of the social services and public enterprises.

EXAMINATION: 1 paper.

Economic Development

For students reading for the degree of Bachelor of Arts in sociology.

One hour a week in the second and third terms.

The relationships between economic, social and political change. Historical trends and current development prospects. Capital formation and growth. Financing capital accumulation. Monetary and budgetary problems and policies. Trade and development. Structural change. The allocation of resources. Planning policies for development.

EXAMINATION: 1 paper.

Trade Unionism and Collective Bargaining

For third-year students reading industrial relations as an additional subject for the degree of Bachelor of Science in the Faculty of Applied Science.

An examination of the organisation of trade unions, the Trade Union Congress and workshop bodies. The functions of trade unionism and the methods employed. Strikes, collective bargaining, joint consultation and political action.

Applied Economics for Applied Scientists

For first-year students reading for the degree of Bachelor of Science in civil engineering.

BOOK

Speight, *Economics and Industrial Efficiency*

EXAMINATION: 1 paper of 3 hours.

Elements of Accounting

For second-year students reading for the degree of Bachelor of Science in two main subjects combined.

Monday 4 to 5.

Accounting statements, their derivation and underlying conventions; the influence of types of organisation and types of activity; compounding and discounting; valuation of individual assets; valuation of businesses; some aspects of short- and long-run decision making. Tutorials and seminars at times to be arranged.

EXAMINATION: 1 paper.

Geography

Environmental physiography 1

For first-year students reading for the degree of Bachelor of Arts in geography, Chinese studies, economic history and geography, economics and geography, geography and history, geography and politics, geography and sociology.

One hour a week; in addition, two hours of practical work for students reading for the degree of Bachelor of Arts in geography.

A study of the component elements and ecological integration of the natural environment. The lectures introduce the distinct fields of climatology, geomorphology, pedology and plant ecology but focus particular attention on (a) interactions between the physical and biological processes involved and (b) the relevance of these processes to problems of land utilisation and conservation. The supporting laboratory and field work deals with the techniques used to study the atmosphere and evolution of weather systems, with field and laboratory study of landforms, vegetation and soils, and with the construction and interpretation of geomorphological, soil and vegetation maps.

EXAMINATION: 1 paper.

Evolution of settlement and land use

For first-year students reading for the degree of Bachelor of Arts in geography, Chinese studies, economic history and geography, economics and geography, geography and history, geography and politics, geography and sociology.

One hour a week.

An introductory course dealing with: territoriality as a basis for social organisation at successive stages of socio-economic development; the effects of changing cultures and technologies on the emergence of the main ecotypes; the effects of the Neolithic, Urban and Industrial Revolutions on the location and functional organisation of settlement; the increasing complexity of territorial organisation; peasant colonization; traditional and industrial urban growth; the translation of European experience to new environments.

EXAMINATION: 1 paper.

Cartography and quantitative methods

For first-year students reading for the degree of Bachelor of Arts in geography, Chinese studies, economic history and geography, economics and geography, geography and history, geography and politics, geography and sociology.

Three hours a week.

An introduction via lectures and practical work to the theory and practice of representing the earth's surface at various scales on a sheet of paper, and an introduction to the methods of measurement and quantitative analysis in geography generally.

EXAMINATION: 1 paper.

Geographical problems, approaches and concepts

For first-year students reading for the degree of Bachelor of Arts in geography.

One hour a week.

A discussion and exemplification of the kinds of problems which distinguish geography as both natural science and social science and of the approaches and concepts employed in seeking solutions to these problems. Special attention is also given to introducing students to northern Britain.

EXAMINATION: 1 paper.

Environmental physiography 2

For second-year students reading for the degree of Bachelor of Arts in geography, Chinese studies, economic history and geography, economics and geography, geography and history, geography and politics, geography and sociology.

Two hours a week.

The climates of urban areas and atmospheric pollution; rural climates and the significance of the moisture balance at the earth's surface. Atmospheric extremes and climatic change. An introduction to the description of landforms and to the processes involved in their formation and distribution. Problems of soil classification and survey; limitations of environment on soil exploitation. Effects of systems of land use on soil properties. Aspects of world zoogeography, with particular reference to conservation problems.

EXAMINATION: 1 paper.

Systems of spatial organisation

For second-year students reading for the degree of Bachelor of Arts in geography, economic history and geography, economics and geography, geography and history, geography and politics, geography and sociology.

Two hours a week.

An investigation of the spatial organisation of human activity through a consideration of the principles underlying movement, and the origin of nodes, networks, hierarchies, surfaces and gradients. The processes involved in the location of economic activity are approached through a study of classical location theory relating to the firm, to competition for locations and to the relative locations of sets of activities. Laboratory classes deal with relevant techniques and methods of analysis.

EXAMINATION: 1 paper covering this course and Natural resource systems.

Urban systems

For second-year students reading for the degree of Bachelor of Arts in geography, Chinese studies, economic history and geography, economics and geography, geography and history, geography and politics, geography and sociology.

One hour a week.

An introduction to the study of urban areas as functional units. Consideration is given to: the form and function of urban areas, drawing upon empirical studies; the city as an economic system; the external relation of the city and its region; and to urban models, with particular reference to those which relate to transport, land use, urban growth and decline.

EXAMINATION: 1 paper covering this course and Migration and regional development.

Research methods*

For second-year students reading for the degree of Bachelor of Arts in geography, Chinese studies, economic history and geography, economics and geography, geography and history, geography and politics, geography and sociology.

Three hours a week.

An introduction to research procedures including approaches to verification and methods of assembling and analysing data. Practical work covers the testing of hypotheses, the use of aerial photographs, social survey and sampling techniques, and the use of historical documents and census returns.

*This course is designated *Practical work* in several schemes of study other than that in geography (single subject).

Natural resource systems

For *second-year* students reading for the degree of Bachelor of Arts in geography and for *third-year* students in Chinese studies, economic history and geography, economics and geography, geography and history, geography and politics, geography and sociology.

One hour a week.

Particular attention is given to land-use systems and water-resources systems, their spatial organisation and ecological relationships. Theories of resource use are discussed with special reference to human adjustment to natural resources.

EXAMINATION: 1 paper covering this course and Systems of spatial organisation.

Migration and regional development

For *second-year* students reading for the degree of Bachelor of Arts in geography and for *third-year* students in Chinese studies, economic history and geography, economics and geography, geography and history, geography and politics, geography and sociology.

One hour a week.

Problems involved in the study of human mobility over the earth's surface. The mechanism of migration and an assessment of case studies in relation to migration theory. Further consideration of migration in relation to the growth of large cities in underdeveloped countries. Population distribution and change; regional economic development in selected areas in Great Britain and the Indian sub-continent.

EXAMINATION: 1 paper covering this course and Urban systems.

Historical geography of Monsoon Asia

For second-year students reading for the degree of Bachelor of Arts in Chinese studies.

One hour a week.

A comparative study of India, Japan, South-East Asia and China with reference to significant phases of their human history and to the visible landscapes and invisible dynamics of their component regions.

EXAMINATION: 1 paper.

Urban and regional analysis

For third-year students reading for the degree of Bachelor of Arts in geography, and in economics and geography.

Two hours a week including seminar and practical work.

Consideration is given to recent advances in theoretical and analytical work on urban and regional systems.

EXAMINATION: 1 paper.

Resource analysis

For third-year students reading for the degree of Bachelor of Arts in geography.

Two hours a week including seminar and practical work.

Consideration is given to the definition of natural resource systems, to the assessment of alternatives in the use of natural resources and to the study of decision-making attitudes of resource users.

EXAMINATION: 1 paper.

Historical analysis of settlement in Britain

For third-year students reading for the degree of Bachelor of Arts in geography, economic history and geography, geography and history.

Two hours a week including seminar and practical work.

An investigation of the nature and limitations of archaeological, place-name, documentary and cartographic evidence relating to the location and functional organisation of settlement at successive stages in the history of Britain.

EXAMINATION: 1 paper.

Urban and regional planning

For third-year students reading for the degree of Bachelor of Arts in geography, economics and geography (optional), geography and politics (optional), geography and sociology (optional).

Two hours a week including seminar and practical work.

A consideration of the theory and practice of physical planning with exemplification from both market economies and centrally-planned economies.

EXAMINATION: 1 paper.

Cartography and photogrammetry

For third-year students reading for the degree of Bachelor of Arts in geography.

Three hours a week including practical work.

Principles and practice of topographical surveying; use of optical and electronic instruments. Survey computations and adjustments. Map compilation. Map projections of use for topographical maps and charts. Mapping from aerial photographs.

EXAMINATION: 1 paper.

Regional courses: China, Latin America and Union of Soviet Socialist Republics

Optional courses for all third-year students reading for the degree of Bachelor of Arts.

Two hours a week including seminar work.

(a) *China*. Selected topics including: the physiography and regional structure of China, the historical origins of regional differences in China, and the geographical implications of the reorganisation of Chinese economy and society. Attention is paid to problems of sources, and students are also required to undertake more specialised study of appropriate topics of their choice.

(b) *Latin America*. Selected topics including the colonial historical geography of Latin America, an analysis of the geographical implications of major social and economic problems of contemporary importance; and a discussion of specific problems with reference to Mexico, the Central Andean Republics and Argentina.

(c) *Union of Soviet Socialist Republics*. An assessment of Soviet achievements viewed in the light of communist ideology, against the background of a harsh physical environment and the heritage of Tsardom; the natural and institutional factors which have conditioned the development of diverse parts of the Union; regional disparities in economic achievements; centripetal versus centrifugal tendencies in Soviet economy and society.

EXAMINATION: 1 paper on the course chosen.

Degree of Bachelor of Science

For schemes of study leading to the degree of Bachelor of Science in geography (one main subject or two main subjects combined), see Prospectus of the Faculties of Science and Applied Science, 1971-72.

Courses Geography 3GG and Geography 3A include the following:

Geomorphology 1. An introduction to the description of landforms and to the processes involved in their formation and distribution.

One hour a week.

Climatology. Particular attention is given to the laws of movement in the atmosphere, radiation and the heat budget of the atmosphere and the earth's surface, and the detailed study of the general circulation of the atmosphere.

One hour a week.

Pedology 1. The nature and dynamic properties of soil and problems associated with its use. Particular attention is given to weathering processes, clay minerals, soil organisms, the cycling of elements, soil organic matter and classification and utilization of soils.

One hour a week.

Laboratory and field work. Practical work in the laboratory and the field related to the lecture courses: Geomorphology 1, Climatology and Pedology 1.

Three hours a week.

Research methods (3GG only). An introduction to research procedures including approaches to verification and methods of assembling and analysing data. Practical work pays particular attention to the role of photogrammetry and survey in physiographic investigations.

Three hours a week.

Courses Geography 4GG and Geography 4A are drawn from:

Geomorphology 2. Selected aspects of geomorphology; fluvial geomorphology; the development of hillslopes; minor weathering forms on silicate and carbonate rocks; limestone landforms in different climates; glacial depositional landforms.

Three hours a week including seminar and practical work.

Hydrometeorology. Consideration of the exchange of water between the ocean's surfaces, the earth's surface and the atmosphere. The observation and measurement of the various parameters involved in these exchanges. A study of the heat and moisture balance within a local catchment area.

Three hours a week including seminar and practical work.

Pedology 2. A study of the stages in the development of soils and of problems in estimating use capability. Particular attention is given to: rates of soil development in different environments; pollen analysis and vegetation records as applied to the study of soil development; and the influence of man on soil development.

Three hours a week including seminar and practical work.

Vegetation and conservation. The structure and regeneration of some of the earth's main plant formations with an assessment of the repercussions of human interference and the ensuing conservation problems. The scope of the course is world-wide but with detailed illustration from Britain, North America and Africa.

Three hours a week including seminar and practical work.

Management Studies

NOTE: In the following, the numbers refer to year of study and the letters to the course of study; e.g. Management Economics C1 is taken in the first year of Management Studies C.

Management Studies A

For the degree of Bachelor of Arts in one subject.

Management Studies A1

Introduction to Industrial Management A1

Mr. F. P. G. Whitaker

One hour a week and one hour discussion fortnightly.

A systems approach to the internal operations of the firm and to the firm in its external environment. The firm as a technological system: interdependence; resource flows; input-output relationships; specialisation and yield; product functions; systems approach to markets. The firm as a resource-flow system: interdependence; liquidity; choice; exchanges with the outside environment. The firm as a decision-making and information-processing system; strategical and tactical decision-making in the firm; management decisions: by whom and by what means they are taken. Processes of planning and of control. The firm as a social system: organisational devices and their consequences; management as environmental control.

EXAMINATION: 1 paper of 3 hours (objective test).

BOOKS

H. I. Ansoff, *Corporate Strategy*
T. Levitt, *Innovation in Marketing*
G. Pask, *An Approach to Cybernetics*
J. Rose, *Automation*
H. Bierman, *et al.*, *Management Decision-Making*
S. Beer, *Decision and Control*
S. Beer, *Cybernetics and Management*
A. Battersby, *Mathematics in Management*

Management Economics A1

Mr. P. W. T. Moreton

One hour a week.

A simple introduction to the economics of the business firm. The firm in economic theory (basic concepts): supply, demand and the price mechanism; elasticity; the law of diminishing returns; the economics of scale; specialisation; the margin; costs and revenue under perfect competition and monopoly. The firm in the real world: definitions of the firm; the profit motive and the role of enterprise; internal growth; the managerial team; risk and uncertainty and the direction of growth; diversification; acquisition and merger; large and small firms.

EXAMINATION: 1 paper of 3 hours.

BOOKS

Cairncross, *Introduction to Economics*
Dean, *Management Economics*
Penrose, *Growth of the Firm*

Management Studies A2

For students who have completed Management studies A1.

Organisation Theory A2

Mr. T. E. Stephenson

One hour a week.

An introduction to the administrative structures and problems of firms. The course will examine the major schools of thought in organisation theory and will relate them to such organizational problems as the achievement of objectives, the maintenance of the internal system and adaptation to the external environment.
Objectives: the problems of determining objectives. The internal system: the formal structure and human behaviour; staff and line; conflict; leadership styles; control and communications; the influence of technology. The environment: influence of external groups—trade unions; 'mechanistic' and 'organic' forms of organization; growth and adaptation.

EXAMINATION: 1 paper of 3 hours.

Quantitative Methods in Decision-Making A2

Mr. C. R. Clark

One hour a week.

A course to examine the principles of decision-making and problem-solving in an industrial environment. The course will cover some of the techniques used in operational research. Topics include: linear programming, the transportation problem, game theory, the appreciation of queueing theory and stock control. The course is mathematically orientated, so students should preferably have G.C.E. 'A' level in mathematics.

EXAMINATION: 1 paper of 3 hours.

BOOK

E. Duckworth, *Operational Research*

Management Studies A3

For students who have completed Management studies A2.

The course consists of Social and Industrial psychology A3 and *either* Applied organisation studies A3 *or* Management economics A3.

Social and Industrial Psychology A3

Dr. J. Hayes

One hour a week.

The purpose of the course is to give students an appreciation of some of the human problems encountered in organisations. Behaviour of individuals: motivation; frustration; perception; communication (with particular reference to interviewing, selection tests and advertising).
Behaviour of groups: norms and conformity; roles; influence of technology on social structure; leadership; authority. Theories of organisation: bureaucracy; the structural approach; the 'human relations' approach; the systems approach; change and stability. Groups will be formed in the class to study specialised areas.

EXAMINATION: 1 paper of 3 hours.

Either:

Applied Organisation Studies A3

Mr. K. W. Bamforth

One hour a week.

The course considers case studies and examples and the findings of empirical research. Selection and training: methods and measures; problems of role definition and role relationships and their part in communications. The changing pattern of the personnel function. Theories of organisation: applications in research and practice. Changes arising from transition from owner management to professional management. Systems models of organisations: theory and application. Social changes within organisations: group methods, in principle and in application.

EXAMINATION: 1 paper of 3 hours.

or:

Management Economics A3

One hour a week.

The purpose of the course is to examine the economic environment within which the firm operates and to examine some specific economic problems encountered by the manager. The firm and the economy: the components of aggregate demand, with special reference to investment; inflation; the balance of payments. The firm and the efficient use of resources; interests of owners and managers; role of the board of directors; acquisition as a method of growth and of re-allocating resources; monopoly and restrictive trading practices; the labour market, including forecasting and the impact of taxation. The firm and technical change: research and development; automation; change and redundancy; change and older workers. The firm and its markets.

EXAMINATION: 1 paper of 3 hours.

Management Studies C

For the degree of Bachelor of Arts in two subjects.

Each of the lecture courses listed below will be supported by tutorials or discussion sections, meeting at times to be arranged.

Management Studies C1

Introduction to Industrial Management C1

Mr. F. P. G. Whitaker

One hour a week and discussion sections each meeting fortnightly for one hour at times to be arranged.

A systems approach to the internal operations of the firm and to the firm in its external environment. The firm as a technological system: interdependence; resource flows; input-output relationships; specialisation and yield; product functions; systems approach to markets. The firm as a resource-flow system; interdependence; liquidity; choice; exchanges with the outside environment. The firm as a decision-making and information-processing system: strategical and tactical decision-making in the firm; management decisions: by whom and by what means they are taken. Processes of planning and of control. The firm as a social system: organisational devices and their consequences; management as environmental control.

EXAMINATION: 1 paper of 3 hours (objective test).

BOOKS

H. I. Ansoff, *Corporate Strategy*
T. Levitt, *Innovation in Marketing*
G. Pask, *An Approach to Cybernetics*
J. Rose, *Automation*

H. Bierman, *et al., Management Decision-Making*
S. Beer, *Decision and Control*
S. Beer, *Cybernetics and Management*
A. Battersby, *Mathematics in Management*

Management Economics C1

Mr. P. W. T. Moreton

One hour a week.

This course is designed to introduce students to some of the economic forces which influence the behaviour of business organisations. No previous knowledge of economics is assumed.

The course opens with an examination of the firm in economic theory (basic concepts); supply, demand and the price mechanism; elasticity; the law of diminishing returns, the economies of scale, specialisation; the margin; costs and revenue under perfect competition and monopoly.

The firm and the market is examined and special consideration is given to the relationship between marketing opportunities and product development. Advertising strategy and pricing procedures (marginal, full cost and incremental cost pricing) are also considered.

This leads to an examination of the characteristics of a typical business organisation: the different legal forms of business organisation; the firm as a co-ordinated administrative unit; the firm as a collection of resources; the profit motive; the role of enterprise; internal growth; the managerial team, risk and uncertainty; the direction of growth; diversifications; acquisition and merger; large and small firms.

The final phase of the course examines the economic environment within which the firm operates and considers some specific economic problems encountered by the manager.

EXAMINATION: 1 paper of 3 hours.

Management Studies C2

For students who have completed Management Studies C1.

Management Economics C2

One hour a week.

The purpose of this course is to examine the economic environment in which the firm operates and to examine some specific economic problems encountered by the manager. The firm and its markets. The firm and the economy. The firm and the efficient use of resources. The firm and technical change.

EXAMINATION: 1 paper of 3 hours.

Organisation Theory C2

Mr. T. E. Stephenson

One hour a week.

An introduction to the administrative structures and problems of the firm. Macro- and micro-theories of organisation: bureaucracy; classical administrative theory; behavioural theory; systems theory. These will be related to such organisational problems as the achievement of objectives, the maintenance of the internal system and adaptation to the external environment. Arising out of these problems are such issues as the location of authority and power; conflict; coalitions and decision-making; organisation planning; uncertainty absorption; strategy; growth and adaptation; the influence of external groups; trade unions; technology and structure.

EXAMINATION: 1 paper of 3 hours.

Management Studies C3

For students who have completed Management Studies C2.

The course consists of Social and industrial psychology C3 and *either* Quantitative methods in decision making C3 *or* Applied organisation studies C3.

Social and Industrial Psychology C3

Dr. J. Hayes

One hour a week throughout the year.

The purpose of the course is to give students an appreciation of some of the human problems encountered in organisations. Behaviour of individuals: motivation; frustration; perception; communication (with particular reference to interviewing, selection tests and advertising).

Behaviour of groups; norms and conformity; roles; influence of technology on social structure; leadership; authority. Theories of organisation: bureaucracy; the structural approach; the 'human relations' approach; the systems approach; change and stability. Syndicates will be formed in the class to study specialised areas.

EXAMINATION: 1 paper of 3 hours.

either

Quantitative Methods in Decision Making C3

Mr. C. R. Clark

One hour a week throughout the year.

The basic principles of decision-making within the firm will be investigated. The course will emphasize the mathematical techniques of Operational Research rather than its philosophy. Students taking this course should preferably have a good mathematical background. Topics include: simple 'modern' mathematics, elementary probability, the techniques of linear programming, theory of games, path and series analysis. To supplement the lectures tutorials will be arranged.

EXAMINATION: 1 paper of 3 hours.

BOOK

E. Duckworth, *Operational Research*

or

Applied Organisation Studies C3

Mr. K. W. Bamforth.

One hour a week throughout the year.

The course will consider the classical, bureaucratic, human relations, task and socio-technical theories of organisations and examine their implications in practice. The origins and outcomes of more recent developments will be studied and this will involve learning to view organisations as open systems and socio-technical systems, for understanding psychological, sociological and cultural factors at work and their relationship to the cultural, technological, economic and political environment.

Experience and research in the use of the small group in industry as a method of facilitating social change will be studied. This will involve understanding resistance to change and the social consequences of change.

Teaching will be in small groups, by seminars and tutorials which will place considerable reliance on students' initiative.

EXAMINATION: 1 paper of 3 hours.

Students will be required to complete a study project in connection with one of the two courses which they take in Management Studies C3.

Management Studies 1

As a subsidiary subject for the degree of Bachelor of Arts. One-year course.

Introduction to Industrial Management 1

Mr. F. P. G. Whitaker

One hour a week for one term.

The elements of a systems approach to the firm. The firm as a technological system, and as a resource flow system; the firm as an information-processing and decision-making system.

BOOKS

Ansoff, *Corporate Strategy*
Levitt, *Innovation in Marketing*

EXAMINATION: 1 paper of 1½ hours (objective test).

Organisation Theory 1

Mr. T. E. Stephenson.

One hour a week for one term.

This course will examined the basic theories of organisation and consider their significance to the solution of organisational problems.

EXAMINATION: 1 paper of 1½ hours.

Management Economics 1

Mr. P. W. T. Moreton

One hour a week for one term.

A general appraisal of some economic factors influencing the manager's decision-making.

EXAMINATION: 1 paper of 1½ hours.

Quantitative Methods in Decision Making 1

Mr. J. P. Dickinson

One hour a week for one term.

This course will briefly cover some of the mathematical techniques of operational research, and thereby give some insight into problem solving in an industrial environment.

EXAMINATION: 1 paper of 1½ hours.

One additional revision lecture will be given for each of the four series of lectures in Management Studies 1.

For the Degree of Master of Arts in Management Science

Operational Research

This course is an introduction to operational research followed by a study of some of the more usual techniques and applications including linear programming, game theory, network analysis, regression analysis, simulation, queueing theory, stock control.

Systems Models of the Firm

Closed and open systems. In open systems: types of input, their supply and control, their impact upon structure; the organisation, interaction, interdependency and integration of parts and elements; types of process, flow and balance within the firm; choice of process, and the implications of choice; resource allocation; the market and its impact upon process and structure; feedback and its significance for the firm.

System-wide issues arising out of open systems; problems of boundary definition; boundary-spanning units; search and perception; system design, system maintenance; system models for corporate strategy.

Socio-technical Systems

The course is about the interaction of social and technical phenomena in organisations, with special reference to their influence upon how decisions are made. Joint consideration of social and technical factors is introduced into the analysis of decision-making processes and other interactions, and into the design of decision-making structures.

Computing

This course is intended to provide a sound basis in the principles of computing. An introduction to the University's computing system is followed by series of lectures on numerical computation, information structures, and commercial data processing.

Advanced operational research techniques

In this course several of the techniques considered in the operational research course will be discussed in greater depth, while other techniques and their applications will be introduced. Topics covered will include advanced linear programming, integer programming, non-linear and dynamic programming, Markov processes and heuristic methods.

Operational research practice and elementary statistics

Model building and the method of approaching and tackling operational research problems will be discussed, and several case studies will be presented. Problems of presentation of results and implementation will be considered. A series of lectures will give students a suitable statistical basis on which work in the second term can be founded.

Operational research and its environment

This course will present topics on the interfaces of operational research with management and other management services, considering work study, organisation and methods, management information systems and planned programme budgeting. It will also investigate in depth operational research within one particular environment.

For the Degree of Master of Arts in Organisation Studies

Theories of organisation

The course reviews the literature of classical bureaucratic human relations and task theory and examines their implications in practice. The origins and outcomes of more recent developments will be studied and this will involve learning to view organisations as socio-technical systems for understanding psychological, sociological and cultural factors at work and their relationship to the technological, economic and political environment. This phase examines how the open systems approach uncovers important opportunities for, and constraints upon, the person concerned with organisational development.

Social Psychology of Organisations

This course is primarily concerned with interpersonal relationships and group dynamics within the broadly defined context of organisations. The course initially considers the individual through investigations of several theories of personality, motivation and conceptual systems. Behaviour in groups is studied both from the literature and by direct (T-group or group relations training) methods in examining the development and on-going process of groups, the helping process, conflict and collaboration, and T-group theory. This leads to consideration of organic and adaptive models of organisation, processes of influence and communication, leadership, authority and the impact of uncertainty in organisations.

Manpower Studies

The course deals with the individual in the context of work and with manpower management as a problem of technical and social strategy. It begins with an examination of theories of work, of vocational development and job satisfaction. This leads to an examination of performance in work roles and particular attention is given to the motivational determinants of effective job performance. Manpower is then considered in a broader context at the level of the firm and the economy. Attention is given to the rationale of manpower management, to manpower utilization and to the strategy of manpower planning at the national level.

Organisational Ecology

This course examines the organisation within its environment: the relations between the organisation, its environmental culture and various external institutions and groups; the mechanisms by which the organisation seeks to influence its environment and to protect itself and the impact of environment on organisational goals, structure and strategy. The effect of the environment on organisational growth and innovation is considered and the significance of organisational leadership is analysed. This study raises questions relating to different types of environment and to the relations which exist between environmental elements outside the organisation. Particular attention is paid to the interaction between trade unions and organisations, boundary-spanning units (e.g. personnel departments) and to various measures of inter-organisational effectiveness.

Methods of Diagnosis in Organisations

The purpose of this course is to introduce students to a conceptual framework for thinking about organisations and for use as a basis for diagnosis. The course is also intended to develop students' diagnostic skills. The content of the course therefore consists largely of a system model for understanding the technical, economic and social structures and processes of organisations. To meet the second objective of the course, namely the development of diagnostic skills, the method of the course is inductive. At an early stage in the course, students are required to go into organisations and then come back to discuss what they have seen. From these observations and discussions material is assembled for a picture of an organisation as a resource-flow system, as a technical system, as an information and decision-making system and as a social system. Since the course is inductively taught, the sequence of ideas depends in the first place on encounters in the field. In development of the conceptual framework, particular attention is paid to survival and growth, interdependence with external systems and the distinction between strategic and tactical decisions in an organisation.

Models and Methods of Decision Making

This course deals briefly with models of the decision-making process and at more length with the methods used to resolve certain types of decision problems. At an early stage an introduction to the subject of statistics is given, and the later development of the course uses quantitative methods to a large extent. In addition some of the techniques of operational research are introduced and the application of these, and of statistics, is illustrated by several case studies. It is expected that students attending this course have at least a good pass in 'O' level mathematics.

Processes of Social and Economic Change in Organisations

The course covers aspects of the nature of change; social systems and change models; the diffusion of innovation; the dynamics of influence, particularly the importance of the small group in the processes of planned change; factors involved in technological change and work adjustments; the nature and implementation of productivity agreements; the role of trade unions and management in the induction of change; resistance to change; and the social consequence of change.

Information and Control Processes in Organisations

Analysis of the functions of the information and control processes in organisations. Varieties of such processes. Investigation of the relationship between process chosen and subsequent trends in organisational growth and development. Choice of process in relation to the possibilities of, and requirements for, polycentrism in the organisation. The effect of the process used on the structure of interpersonal relations in the organisation. Examination of the consequences of developing processes as ends rather than as means.

Politics

Politics (The Political Structure of Great Britain) P1

For first-year students reading politics as part of a one-subject or two-subject degree scheme, or as an approved subsidiary subject in another scheme of study.

Mr. Swinhoe

An outline of British constitutional history; general principles of the constitution; parliament, the cabinet, the Crown, government departments and the civil service, the courts of law, political parties and the electoral system, local government.

British Constitutional and Political History from 1660 P2

For first-year students reading politics as part of a one-subject or two-subject degree scheme, or as an approved subsidiary subject in another scheme of study.

Dr. Fry

This course traces the development of the British constitution from the limited monarchy of the seventeenth century to the constitutional democracy of the twentieth. It considers the withdrawal of the Crown, the extension of the franchise, the emergence of parties, the cabinet and prime minister, the expansion of executive action, the development of local government and the consolidation of civil liberties.

Introduction to Political Science P3

For first-year students reading politics as part of a one-subject or two-subject degree scheme, or as an approved subsidiary subject in another scheme of study.

Mr. Rees (Department of Philosophy)

Political and Social Theory P4

For second- and third-year students reading politics as part of a one-subject or two-subject degree scheme.

Mr. Grossman

A study of the 'great issues' in political and social philosophy considered by topic and in connection with a number of texts, leading to an examination of the interaction between political theory and political practice in the contemporary world. Political and social philosophy as a form of inquiry; methods, types of theory, standards of judgment and verification. Concepts of the state, the state and the individual, the state and other associations. Relations between states. Freedom and responsibility. Concepts of power, authority and political obligation; rights, justice and equality. Theories of progress and change. Systems of political doctrine; nationalism, liberal-democratic doctrines, conservatism, fascism, socialism and related doctrines. Human nature and politics; the problem of irrational behaviour.

Politics 1: British Government and Administration P5

For second-year students reading politics as part of a one-subject or two-subject degree scheme.

Mr. Macdonald, Dr. Hartley and Dr. Fry

The broadening and deepening of the knowledge of British government acquired in the first year.

Politics 2: Modern Foreign Governments and Comparative Government P6

For second- and third-year students reading politics as part of a one-subject or two-subject degree scheme.

Mr. Feingold and Miss Saunders

The main features of the political institutions of the Soviet Union, United States, France and one other prescribed country. A detailed comparative study by topic: constitutions, electoral systems, parties and pressure groups, presidential and cabinet systems, legislatures, civil service organisation, local government, etc. These will be studied in their general social setting. The third-year work will consist of an introduction to the theory of comparative government: purpose and method in the comparative study of political institutions, types of comparison of specific institutions, comparison of political systems.

Modern Political Doctrines P7

For third-year students.

Mr. Grossman

A detailed examination of the history and characteristics of political doctrines which have had practical influence in the modern world: liberalism, nationalism, conservatism, Christian political thought, anarchism, socialism, communism, fascism.

British Politics since 1914 P8

For second-year students.

Dr. Fry

An examination from an historical standpoint of British politics from 1914 to the present day. It is not limited to domestic politics, but also considers the making of British foreign policy. The purpose is to provide an historical background to the study of modern British government and political institutions.

The Government of the U.S.A. P9

For third-year students.

Mr. Feingold

The development of the constitution; the federal system; the presidency, congress, the supreme court. The administration. Political parties and the electoral process. Issues in American national politics. State governments. Local government and administration.

The Government of the U.S.S.R. P10

For third-year students.

Miss Saunders

An analysis by topic of the U.S.S.R.: constitution, political party, economy, planning, agriculture, politics and social life, administration of justice, international affairs, Communist bloc.

The Political Problems of Developing Countries P11

For third-year students.

Professor Hanson

This course will concentrate on the problems of national unification and the building of viable political institutions in the 'new' states of Africa and Asia. The impact of political conditions on economic developments and *vice versa* will be studied and special attention will be paid to questions of administrative reform and planning.

Aspects of Modern Political Thought P12

For third-year students.

Mr. Grossman

An examination of selected themes in 20th-century political thought.

American Political Thought P13

For third-year students.

Mr. Feingold

An attempt to relate American thought and ideas to the growth and development of the United States from the time of the colonists to the mid-twentieth century.

Government and Politics of China P14

For students reading for the degree in Chinese studies or Political studies.

Mr. Macdonald

A study of the development of Chinese communism and the thought of Mao Tse-tung, and of the government of China since 1949.

International Organisations P15

For second-year students.

Mr. de Rusett

A study of the United Nations and other international institutions.

International Relations P61

For third-year students.

Mr. de Rusett and Mr. Ross

A study of the development of modern international society and its current problems. Sovereignty and the elements of statehood; international power and its limitations; nationalism and self-determination; imperialism, anti-colonialism and neutralism; methods of limiting conflict and regulating change; international social and economic organisation with special reference to the problems and needs of developing countries.

Local Government P17

For third-year students.

Dr. Hartley

The Theory of War and Military History P18

For third-year students.

Dr. Hartley

Political History of Western Europe and the U.S.A. from 1789 P19

For second-year students.

Dr. Wangermann and Dr. Woods (School of History)

Courses for the Diploma in Development Administration

Economic Development P20

Mr. Wynne Davies (School of Economic Studies)

The course is concerned with some of the leading issues or problem areas in the less developed economies; in particular with problems associated with the objective of accelerating the process of economic growth.

The course is in six parts:

(1) Characteristics of the less developed economies
(2) Theories of growth and the historical experience of the now developed economies
(3) The financing of development; internal and external sources
(4) Allocation of investment resources
(5) International trade aspects of development
(6) Planning.

BOOKS

Meier, *Leading Issues in Developing Economics*
Hagen, *Economics of Development*
Kuznets, *Modern Economic Growth*

EXAMINATION: 1 paper.

Public Enterprise **P21**

Professor Hanson

The place of public enterprise in a developing economy. Types of public enterprise with special reference to general, industrial and agricultural development and finance agencies. The organisation of public enterprise: government department, public corporation, state-owned company, 'mixed' enterprise etc. Financial and commercial aspects. Problems of control, managerial structure and personnel.

BOOKS

A. H. Hanson, *Public Enterprise and Economic Development*
United Nations, *Some Problems in the Organisation and Administration of Public Enterprises in the Industrial Field*
United Nations, *Report of the United Nations Seminar on Organisation and Administration of Public Enterprise*
United Nations, *Organisation and Administration of Public Enterprise—Selected Papers*
United Nations, *The Role of Public Enterprises in the Formulation and Implementation of Development Plans in Centrally Planned Economies*
William Diamond, *Development Banks*
Shirley Boskey, *Problems and Practice of Development Banks*
Leonard Tivey, *Nationalisation in British Industry*
First Report from the Select Committee on Nationalised Industries, Session 1967-8: Ministerial Control of the Nationalised Industries
V. V. Ramanadham, *The Structure of Public Enterprise in India*
W. A. Robson, *Nationalised Industry and Public Ownership*
A. H. Hanson (ed.), *Nationalisation*

EXAMINATION: 1 paper.

Industrial Organisation and Industrial Relations **P22**

Mr. Stephenson and Dr. Allen (School of Economic Studies)

Industrial Organisation

This course critically examines different approaches to the problems of industrial organisations. Commencing with a study of the 'classical' school of organisation theory, it proceeds to the 'behavioural' school and concludes with the 'systems' approach.

Specific topics will include—the organisational role of the manager; an examination of the validity of the principles of organisation and their underlying assumptions; the relationship of environment, task, technology and structure—mechanistic and organic structures; boundary spanning units, e.g. the personnel department, in organisations; organisational relations and conflict; the process of management by objectives.

BOOKS

E. F. L. Brech, *Management: Its Nature and Significance*
J. O'Shaughnessy, *Business Organisation*
H. Koontz and C. O'Donnell, *Principles of Management*
J. A. C. Brown, *The Social Psychology of Industry*
L. Urwick and Brech, *The Making of Scientific Management, III* (The Hawthorne Investigations)
T. Lupton, *Management and the Social Sciences*
A. D. Newman and R. W. Rowbottom, *Organisation Analysis*
A. K. Rice, *The Enterprise and Its Environment*
C. H. Northcott, *Personnel Management*

Industrial Relations

The nature of trade unionism—its universal character—necessary and sufficient conditions for it. The necessary conditions—growth of labour markets in developing countries. Meaning of industrialisation and the determinants of its spread. The characteristics of labour forces—labour migration—ethnic composition in India, tropical Africa and Malaya—the skill content—educational development. Colonialism and trade union development—legal constraints through Trade Union Ordinances—the consequences of the Ordinances. The imposition of the Western model of union organisation—examination of union development in the Philippines and the Sudan—evidence of the inappropriateness of the model. Problems of union organisation and leadership—role of international agencies and union bodies—lack of leaders in Africa—use of "outside" leaders in India. Trade Union involvement in nationalist movements—the case of India—the political suppression of unions—the case of Kenya. Trade unions and politically independent governments—government control—the reorganisation of unions in Ghana, Kenya and Tanzania. Trade unions and economic development—significance of international investment—the conflicting pressures of low living standards and the need to raise productivity—the argument for political stability.

BOOKS

W. Galenson (ed.), *Labour and Economic Development*
W. Galenson (ed.), *Labour in Developing Countries*
A. M. Ross (ed.), *Industrial Relations and Economic Development*
W. E. Moore and A. S. Feldman (ed.), *Labour Commitment and Social Change in Developing Areas*
Saad ed din Fawzi, *The Labour Movement in the Sudan, 1946-1955*
I. Davies, *African Trade Unions*
C. A. Myers, *Industrial Relations in India*
W. H. Knowles, *Trade Union Development and Industrial Relations in the British West Indies*
B. C. Roberts, *Labour in the Tropical Territories of the Commonwealth*
Adam Curle, *Educational Strategy for Developing Societies*

EXAMINATION: 1 paper.

Politics and Administration **P23**

Mr. Carey Jones

1. Societies, their form and structure. Organisations, politics, informal societies, movements. The function and dynamics of politics. Opinion formation and transmission. Politics in relation to development. Revolutions and post-revolutionary situations. Movements, ideologies and struggles between policies. The United Nations. Federations and common markets. The party as an organ of development. The role of the civil service. Problems of government.

2. Communication in organisations. The informal society, leadership and the role of the administrator. Organisational and staff structures in relation to personnel management and promotion. Discipline. Decision-making. Problem-solving and the techniques for this. Centralisation and decentralisation. Loyalty and teamwork.

3. Planning and the administration of development. Financial control (public and business). The administration of credit. The administration of prices, indirect subsidies and taxation.

This course is supplemented by practical exercises and case studies, by seminar courses with public enterprises in Britain and France, and by short additional courses in Computer Appreciation, Co-operation, Chinese organisation for development, and O. and M.

BOOKS

M. Duverger, *The Idea of Politics*
J. A. C. Brown, *The Social Psychology of Industry*
M. Gluckman, *Custom and Conflict in Africa*
Louis C. Gawthorp, *Bureaucratic Behaviour in the Executive Branch*
A. Waterston, *Development Planning: The Lessons of Experience*
A. H. Hanson, *The Process of Planning* (Chapters VII, VIII, XI and XIII)
Sir Geoffrey Vickers, *Towards a Sociology of Management*
The Soviet Bloc and the Developing Countries (published by Forschungsinstitut der Friedrich-Ebert-Stiftung)

EXAMINATION: 1 paper.

Agricultural Development and Administration — P24

Mr. Clarke and Mr. Carey Jones

1. Factors responsible for the characteristics of agriculture in economies at various stages of development. The two-sector growth model of Professor W. Arthur Lewis. Concepts of private and social costs and benefits. Reasons for a special approach to resource allocation for agriculture. The nature of agriculture's contribution to economic development. The strategy of agricultural development: (a) research, (b) extension, (c) new inputs, (d) education. Extension organisation, staffing and in-service training. Extension techniques. Techniques to help farmers with economic choice problems.

2. Agriculture in relation to economic development planning. Farm size problems; efficiency per acre or per man; farmers' decisions—labour inputs, incentives, returns to labour and to risks. Land tenure and reform: the large estate—landlord/tenant or moneylender systems—communal tenure—individual farming—co-operative farming—collective/state farming. Prices: stability and change; governmental methods of influencing and fixing prices; desirable limitations to this; price equalisation. Marketing: development of free markets; buffer stocks and state marketing monopolies; co-operative marketing; development of internal trade; organisation of marketing boards. Credit: hard and soft credit; supervised credit; means of handling credit to best advantage. Land settlement and irrigation schemes; their conditions and organisation. Research needs: technical, economic, social, machinery and equipment.

BOOKS

W. A. Lewis, *Development Planning*
C. Clark and M. Haswell, *Economics of Subsistence Agriculture*
P. P. Courtenay, *Plantation Agriculture*
E. Boserup, *Conditions of Agricultural Growth*
T. W. Schultz, *Transforming Traditional Agriculture*

EXAMINATION: 1 paper.

Courses for the Degree of Master of Arts

Comparative Government P25

Miss Saunders

Purpose and method in the comparative study of political institutions. Types of comparison, with special reference to (a) individual institutions and (b) whole systems. The development of criteria for the study of political parties and of political structure and behaviour in the 'developing' countries.

EXAMINATION: 1 paper.

Political Sociology P26

Dr. Nossiter

This course is intended to cover recent work in political behaviour together with the analysis of social movements and revolutions. The main topics are: the 'scientific' study of politics, political socialisation, authority and leadership, party formation and structure, political ideology and culture, mass society, electoral behaviour, models of government, games theory, social movements, labour, the radical right, and the 20th-century revolutions.

EXAMINATION: 1 paper.

Government and Politics of South and East Asia P27

Professor Hanson and Mr. Macdonald

Sociology and Social Administration

Approaches to Sociology S1

For students reading sociology in their first year as part of a degree scheme, and for students taking this subject as a subsidiary. One hour a week in the first, and part of the second, term (approximately 15 lectures).

Dr. Goldthorpe

The origins of sociology in nineteenth-century thought and its position today. Some notable sociologists of the past—the background of their lives and times and their views of sociology and of society. Recent studies exemplifying the methods and approaches of modern sociologists.

BOOKS

D. C. Marsh, *The Social Sciences: an Outline for Intending Students*
A. Inkeles, *What is Sociology?*
J. Madge, *The Origins of Scientific Sociology*

Social Institutions and Sociological Concepts

Mr. Watkins

The aim of this course is to provide a clear understanding of the vocabulary of sociology.

Particular consideration will be given to the substantive approaches to society of three great masters of sociological reasoning, Marx, Weber and Durkheim.

The course will explore the meaning and application of such basic concepts as society, community and association; class, status and power; anomie and alienation; socialisation and social control.

The manner in which theoretical reasoning is related to substantive concerns will be explored by studying the basic theories which underlie studies of social institutions.

BOOKS

L. A. Coser and B. Rosenberg (eds.), *Sociological Theory*
R. Aron, *Main Currents in Sociological Thought* (2 vols.)
P. Berger, *Invitation to Sociology*

EXAMINATION: Courses S1 and S2 are jointly examined on one paper.

The Sociology of Modern Britain S3

For students reading sociology in their first year as part of a degree scheme and for students taking this subject as a subsidiary. One hour a week throughout the year (approximately 25 lectures).

Mr. Warwick

A study of social institutions in modern Britain, involving a consideration of major trends in 19th and 20th century British social history. The course will attempt to provide a contemporary sociological analysis of the economy and the polity, the family and education, religion and the law, the mass media and the arts. The emphasis will be on empirical studies which throw light on the institutions and the problems of theory and method in sociology.

BOOKS

E. Butterworth and D. Weir (eds.), *The Sociology of Modern Britain*
Ronald Frankenberg, *Communities in Britain*
J. Ryder and H. Silver, *Modern English Society*
A. M. Carr-Saunders, D. C. Jones and C. A. Moser, *A Survey of Social Conditions in England and Wales*
D. C. Marsh, *Changing Social Structure of England and Wales 1871-1961*

EXAMINATION: 1 paper.

Quantitative Methods in the Social Sciences S4

For students reading sociology for a degree scheme in their first year. One hour a week throughout the year (approximately 25 lectures).

Mr. Royse

An introduction to basic research methods and their applications to the social sciences, including elementary statistical concepts and methods; basic sampling theory and techniques, tests of significance, hypothesis testing, measures of association, simple regression and correlation and non-parametric statistics.

EXAMINATION: 1 paper.

Sociology 1: Central Issues, Theories and Concepts S5

Two hours a week in the second year and one hour a week in the third year.

Professor Bauman

Lectures in the second year will be devoted to systematic discussion of sociological theories. The issues selected will be concepts of the social whole and the nature of social integration, the types of social bonds, the nature of authority and inequality, and the paradigm of stability and change.

Lectures in the third year will concentrate on the study of culture and cultural change as a central issue. The course will cover commonsensical, selective-evaluative and cartesian-phenomenological concepts of culture, as well as evolutionist, neo-evolutionist, cyclical, institutional and socio-psychological theories of cultural change.

Bibliographies will be discussed with students at the beginning of the course.

EXAMINATION: 1 paper.

The Institutions of Advanced Societies S6

For students reading sociology, economics and sociology, geography and sociology, politics and sociology, psychology and sociology, religious studies and sociology or philosophy and sociology.

One hour a week throughout the second year, two terms on Britain by Mr. Davies and one term on the U.S.A. by Dr. Nossiter.

An introduction to the study of the major social institutions of Britain and the U.S.A. treated comparatively.

BOOKS

A. N. J. den Hollander, *American Civilisation*
R. L. Simpson and I. H. Simpson, *Social Organisation and Behaviour*
A. J. Vidich and J. Bensman, *Small Town in Mass Society*
R. Merton and R. A. Nisbet, *Contemporary Social Problems*
S. M. Lipset, *First New Nation*
D. Bell, *End of Ideology*
J. K. Galbraith, *The New Industrial State*
G. Owen, *Industry in the U.S.A.*
M. Harrington, *The Other America*
S. Lubell, *The Future of American Politics*
E. Raab, *The Religious Conflict in America*
W. Herberg, *The Triple Melting Pot*
New York Times; Time Magazine; Life; Fortune
J. H. Goldthorpe *et al.*, *The Affluent Worker, I, II and III*
David Lockwood, *The Black Coated Worker*
S. C. G. Pollard, *The Genesis of Modern Management*
A. Christopher *et al.*, *Policy for Poverty*
E. G. West, *Education and the State*
Ronald Frankenberg, *Communities in Britain*
J. Klein, *Samples from English Cultures*
T. Brennan *et al.*, *Social Change in South West Wales*
B. & H. Elizabeth, *Family and Social Network*
W. Bagehot, *The English Constitution*
F. Parkin, *Middle Class Radicalism*
Milton Rokeach, *Open and Closed Mind*
David Martin, *A Sociology of English Religion*

EXAMINATION: 1 paper.

British Social and Political Institutions S7

For second-year students reading for the degree of Bachelor of Arts in social and public administration.

Mr. Kirk and Dr. Hartley

Selected sociological concepts; the citizen and the law; the machinery of justice; local government; trade unions.

EXAMINATION: 1 paper.

Methods of Social Investigation S8

For students reading this subject as part of a degree scheme in sociology. One hour a week throughout the second and part of the third year.

Mr. Royse

This course is concerned with the analysis and interpretation of statistical and survey data and the problems of design of relevant empirical investigations. Probability and sampling models; surveys and polls; tests of significance; hypothesis testing and the statistical design of experiments; analysis of variance and covariance; design of empirical investigations; introduction to multivariate analysis including factor analysis and allied procedures; analysis of qualitative data; introduction to classification, selection and decision procedures, special problems of measurement, observation and data collection.

EXAMINATION: 1 paper.

Sociology 2: Structures and Processes S9

For students reading sociology or a combined subject scheme including sociology.

Dr. Nossiter

One hour per week for three terms normally in the second year.

This course is designed to illustrate some of the major structures and processes in society by inter-relating empirical research with theory. Among topics normally covered are: the action frame of reference; structural functionalism; the definition of the situation; role theory; the professions; organisations; power and authority; stratification; the mass media and mass society; race relations; and social movements. The course will also include a series of lectures on problems in methodology with a review of techniques currently in use.

BOOKS

P. Cohen, *Modern Social Theory*
L. A. Coser and B. Rosenberg, *Sociological Theory*
M. Natanson, *Readings in Social Science*
M. Brodbeck, *Readings in the Philosophy of Social Science*
P. Berger, *Social Construction of Reality*
Social Reality of Religion
E. Goffman, *Encounters*
Presentation of Self in Everyday Life
Where the Action Is
A. Etzioni, *Sociological Reader on Complex Organisations*
T. Lupton, *On the Shop Floor*
T. Burns and G. M. Stalker, *Management of Innovation*
Everett M. Rogers, *Diffusion of Innovations*
D. McQuail, *Towards a Theory of Mass Communications*
J. H. Goldthorpe *et al.*, *The Affluent Worker*
R. Bendix and S. M. Lipset, *Class, Status and Power*
H. M. Vollmer and D. L. Mills, *Professionalisation*
B. J. Biddle and E. J. Thomas, *Role Theory*
N. Gross, *Explorations in Role Analysis*
N. Smelser, *Collective Behaviour*
T. Parsons, *Social System*
E. J. B. Rose, *Colour and Citizenship*

EXAMINATION: 1 paper.

Selected Problems in Sociological Analysis S10

For students reading Sociology in the second and third year. This will be a joint course in which members of staff will collaborate by offering short groups of lectures. The aim of the course is an exploration of selected sociological problems chosen by members of staff with particular reference to current research.

Sociology of Religion S11

For third-year students reading the subject as part of a one-subject or two-subject degree scheme.

One hour a week in the first two terms of the third year with supporting seminars.

Dr. Towler

Starting from the distinction traditionally drawn between magic, science, morals and religion, the development of the sociology of religion is traced with particular reference to the works of Marx, Durkheim, Weber and Malinowski, and to recent research which has been based on their theories. The place of religion in complex societies and its relationship to other social

institutions is examined, with illustrative studies of the structure of a variety of Western religious organisations. A discussion of the problems posed by secularisation, ecumenism and religious conflict leads back to the question of the nature of religion as studied sociologically.

EXAMINATION: 1 paper.

Political Sociology S12

Optional for the degree of Bachelor of Arts in sociology and in political studies. One hour a week for the first two terms of the third year.

Dr. Nossiter

This course is intended to cover recent work in political behaviour together with an analysis of the basis of social movements. The main topics are: whether politics can be treated as a social science or shares more in common with history; political socialisation and recruitment; authority and leadership; the formation of parties and their structures; political ideology and belief systems; mass society; elections; games theory; social movements; the mafia; and totalitarianism.

BOOKS

E. Hobsbawm, *Primitive Rebels*
H. D. Lasswell and D. Lerner, *World Revolutionary Elites*
E. Lutwak, *Coup d'état*
D. Schoenbaum, *Germany's Social Revolution*
A. Bullock, *Hitler*
N. Smelser, *Collective Behaviour*
F. Greenstein, *Children in Politics*
D. Easton and Dennis, *Children in the Political System*
G. Parry, *Political Elites*
S. Neumann, *Modern Political Parties*
M. Duverger, *Political Parties*
P.E.P., *European Party Systems*
S. M. Lipset and S. Rokkan, *Party Systems*
E. Allardt and Y. Littunen, *Cleavages, Ideologies and Party Systems*
S. M. Lipset, *Political Man*
H. Daudt, *The Floating Vote*
A. Campbell *et al.*, *Elections and the Political Order*
W. Miller, *The American Voter*
D. Butler and D. Stokes, *Political Change in Britain*
H. Eckstein and D. E. Apter, *Comparative Politics*
J. Blondel, *Comparative Politics*
W. J. M. Mackenzie, *Politics and Social Science*

EXAMINATION: 1 paper.

Industrial Sociology S13

For students reading this subject as part of a one-subject or two-subject degree scheme.

One hour a week for the first two terms of the third year.

Mr. Watkins

A systematic investigation of the social organisations of work; both in relation to their social, economic and technical environments and to their internal structure and functioning.

The placement of individuals in the occupational system (occupational choice) and the integration of the work-role with other roles. Role and role-conflict in organisations.

Authority and legitimation at work: industrial relations systems, theories of shared-control, trade unions and professional associations.

The impact of social and technical change on the forms of the organisation of work.

BOOKS

S. R. Parker *et al.*, *The Sociology of Industry*
J. Child, *The Business Enterprise in Modern Industrial Society*
S. Nosow and W. H. Form, *Man, Work and Society*
A. Fox, *Industrial Sociology and Industrial Relations* (Royal Commission on Trade Unions and Employers Research Paper no. 3)

EXAMINATION: 1 paper.

Criminology S14

For students reading the subject as part of a degree scheme.

Mr. Low

The nature of criminal law. Criminality and other forms of anti-social behaviour. Differences in crime between different social groups. Theories of the causation of crime. The history and theory of punishment. Modern penal systems, with special reference to Great Britain, the U.S.A. and Scandinavia. Prediction techniques and recidivism. Crimes of violence, sexual offences. Crimes against property.

BOOKS

P. J. West, *The Young Offender* (Pelican)
H.M.S.O. (Home Office), *The Sentence of the Court* (2nd ed.)
A. K. Cohen, *Deviance and Control* (paperback)
D. Maclean and D. J. Wood, *Criminal Justice and the Treatment of Offenders*
N. Walker, *Crime and Punishment in Great Britain* (2nd ed.)
Sentencing in a Rational Society

EXAMINATION: 1 paper.

Urban Society S15

For students reading this subject as part of a degree scheme. One hour a week in the first two terms of the third year.

Mr. Kirk

Urbanism in medieval society; pre-industrial urban economics and government. Impact of industrialism on the social and economic structure of urban society. Characteristics of urbanism in modern Asia and Africa. Social groups, community and association in modern cities. Urban politics and government; city life and social change.

BOOKS

A. Briggs, *Victorian Cities*
O. Handlin and Burchard, *The Historian and the City*
J. H. Mundy and P. Riesenberg, *The Medieval Town*
N. Anderson, *The Urban Community*
M. Weber, *The City*
P. K. Hatt and A. J. Reiss, *Cities and Society*
P. M. Hauser and L. F. Schnore, *The Study of Urbanization*

EXAMINATION: 1 paper.

The History and Principles of Social Policy S16

For students reading this subject as part of a degree scheme. One hour a week throughout the second year and the first two terms of the third year.

Mrs. Collins and Mrs. Fry

The social needs of industrial societies and the formulation of social policy in the modern state. The development of social services in Great Britain.

Modern welfare policies at home and in selected countries elsewhere. The work of some international agencies. The influence of social, political and demographic changes in policy with especial reference to the fields of social security, housing and the personal social services. Social support for the family. The role of social investigations in the processes of reform. Bureaucracy and professionalisation in the social services. Lay control and administrative patterns. The functions of self-help and voluntary organisation. The economics of welfare.

BOOKS

M. Bruce, *The Coming of the Welfare State*
R. Titmuss, *Essays on the Welfare State*
A. Forder (ed.), *Penelope Hall's Social Services of Modern England*
M. Ginsberg, *Law and Opinion in the 20th Century*
T. H. Marshall, *Social Policy*
G. Myrdal, *Beyond the Welfare State*

EXAMINATION: 2 papers.

Sociology of Education 1 S17

Mr. Warwick

An analysis of the development of the sociology of education. An outline of the main issues in education in the past one hundred years and a discussion of the contemporary process of education with special reference to primary and secondary education and the education of teachers. An examination of the role of the teacher, educational administrator and student. Problems for research in the sociology of education.

BOOKS

O. Banks, *The Sociology of Education*
D. F. Swift, *The Sociology of Education*
A. H. Halsey, J. Floud and C. A. Anderson, *Education, Economy and Society*
A Reader in the Sociology of Education
B. Simon, *Education and the Labour Movement, 1870-1920*
The Central Advisory Council for Education, *Children and their Primary Schools* (*The Plowden Report*), I and II
R. S. Peters (ed.), *Perspectives on Plowden*

EXAMINATION: 1 paper.

Problems of Health and Disease S18

Optional for students taking this subject as part of a single-subject degree scheme.

Mrs. Fry

A consideration of the increasing effectiveness of medical care in Britain and in some other countries. The measurement and changing incidence of mortality and morbidity. The major diseases of advanced societies. The evolution of the medical profession. The development of environmental health and medical care services. The structure and functioning of the British National Health Service. The recognition, treatment and care of mental illness and mental deficiency.

EXAMINATION: 1 paper.

Social Demography S19

For students reading the subject for a one-subject or two-subject degree scheme. Two terms in the third year.

Mr. Kirk

The biological principles underlying human population growth. The development of censuses and vital statistics. Mortality, and the change in mortality patterns between pre-industrial and industrial societies. The transition in fertility during the last 150 years. The development of methods of fertility control, and their dissemination, studied with special reference to Great Britain and some developing societies. The distinction between the demographic pattern of developed and undeveloped countries. Theories of population and attempts to influence population movements in different countries. The main migration currents in the last 150 years.

Reading for this course will consist largely of United Nations reports, transactions of conferences of various demographic bodies and current research in the periodical literature.

EXAMINATION: 1 paper.

Methods of Social Statistics S20

For students reading the subject as part of a one-subject or two-subject degree scheme. One hour a week throughout the second and third year.

Mr. Royse

Students attending this course will be expected to be familiar with the elements of the differential and integral calculus.

Elementary statistical theory; moments and cumulants. The binomial, Poisson and normal distributions, and their application to simple sampling problems. Tests of significance. Linear regression and correlation. Analysis of variance and covariance. The standard errors of regression and correlation coefficients. The elements of multivariate analysis. Theory of estimation. The application of statistical methods to social problems and surveys. Difficulties of sampling, and different sampling methods. Interviews and questionnaires. The design of social experiments. Statistical methods used in empirical studies. Problems of classification and measurement. Elementary decision theory and Bayesian strategies. History of social statistics.

EXAMINATION: 2 papers.

Sociological Problems of Developing Societies S21

For students reading this subject as part of a degree scheme. First and second term of the third year.

Dr. Goldthorpe

Developing countries: extensive and intensive definitions. The sociological characteristics of small-scale societies. Different views of the processes of change in present-day developing countries. Sociological implications of growth of scale in social relations. Sociological determinants and consequences of economic development and political modernization. Modern education and the emergence of new elites. Race relations and the new states. The notion of international stratification; relations between rich and poor nations.

BOOKS

J. H. M. Beattie, *Other Cultures*
Godfrey and Monica Wilson, *The Analysis of Social Change*
D. Lerner, *The Passing of Traditional Society*
Peter Worsley, *The Third World*

EXAMINATION: 1 paper.

Problems of Development with Special Reference to a Particular Area: East Africa S22

For students taking this subject as part of a degree scheme. First and second terms of the third year.

Dr. Goldthorpe

BOOKS

J. E. Goldthorpe, *Outlines of East African Society* (revised edition)
P. G. Clark, *Development Planning in East Africa*
Carl G. Rosberg, jr. and J. Nottingham, *The Myth of 'Mau Mau': Nationalism in Kenya*

EXAMINATION: 1 paper.

The Family S23

For students reading this subject as an option for the degree of B.A. and LL.B.

One hour a week in the third year.

Mrs. Fry, Dr. Goldthorpe and Mr. Schofield

The origins and varieties of family organization in human society. The needs of mothers and children for support and maintenance. The law relating to parents and children. Varieties of marriage in different societies, the English law of marriage, and the recognition by English courts of unions contracted under other systems of law or custom. Demographic factors, recent trends in fertility and mortality, and the small family system. The position of women. Family poverty as a problem for the social services; alternative methods of securing support for the family during the cycle of dependency. Marital breakdown, and the dissolution of marriage in English law. The position and needs of the one-parent family; substitute care for children.

BOOKS

C. C. Harris, *The Family*
Margaret Puxon, *The Family and the Law*, Penguin, 1963: second edition, McGibbon and Kee, 1967
R. Fletcher, *The Family and Marriage in Britain*, Penguin, 1967

EXAMINATION: 1 paper.

Sociology of Education 2 S24

For students reading this subject as part of a one-subject or two-subject degree scheme.

One hour a week for the first two terms of the third year.

Mr. Varcoe

The institutionalization of science; cultural growth and the knowledge explosion, the differentiation of scientific roles and institutions. The social organization of science, socialization, communication, social control. Pure and applied science and technology in different contexts. Science in relation to the policy and the economy in different societies, recruitment to science, support for science, the flow of innovation.

BOOKS

B. Barber and W. Hirsch, *The Sociology of Science*
T. S. Kuhn, *The Structure of Scientific Revolutions*
W. O. Hagstrom, *The Scientific Community*
D. de Solla Price, *Little Science, Big Science*

EXAMINATION: 1 paper.

The Social Structure of China S25

To be taken by third-year students reading sociology for the degree of Bachelor of Arts in Chinese studies.

Mrs. van der Sprenkel

An examination of Chinese society in imperial and recent times, the aims of which will be: to apply principles of sociological methods of analysis to Chinese material; to survey existing empirical studies with a view to discovering fruitful areas and methods for further research; to seek for relevant comparisons outside China. It will include demographic data; kinship organisation; production, marketing and employment relations; property ownership; social stratification, elites and mobility; socialisation processes; religious organisation, structures of leadership and authority; group organisation of varying scale; sources of societal cohesion; treatment of deviance.

EXAMINATION: 1 paper.

Given in the Department of Psychology

Social Psychology S26

For students reading sociology as part of a one-subject or two-subject degree scheme. Three terms beginning in the first term of the second year.

Dr. Whitaker

The effect of social and cultural factors on psychological characteristics and processes; e.g. perceiving, remembering, thinking, intelligence, values and attitudes.

The significance of culturally patterned child-rearing techniques and regularities of social interaction for personality growth and health. An examination of the processes of socialisation and social control. The study of social interaction through the observation of natural groups and the experimental manipulation of arranged groups, particularly the emergence of group structure (e.g. leader-follower relations) and group norms, patterns of communication and the effect of contrasted group atmospheres, e.g. authoritarian and democratic. Some of the practical contributions of the subject to industry, education and mental health will be examined in the light of urgent contemporary problems.

EXAMINATION: 1 paper.

Given in the Nuffield Centre for Hospital and Health Service Studies

Medical Sociology (S) S27

For students reading this subject as part of a one-subject or two-subject degree scheme.

One hour a week in the first and second term of the third year.

Mr. Johnson

The role and contribution of the social scientist in medical care; sociological perspective on health and disease and socio-epidemiology of disease. Concepts of health and illness as normative behaviour and deviance. The medical profession, the role status of the physician. The sociology of medical training and organisation. Nursing as a problem in status and professionalism. Medical institutions, hospital and institution studies. Organisation theory and hospitals. Medical care, the hospital and the community.

BOOKS

David Mechanic, *Medical Sociology*
E. Gartley Jaco, *Patients, Physicians and Illness*
Freeman, Levine & Reeder (eds.), *Handbook of Medical Sociology*
Duff and Hollingshead, *Sickness and Society*
Susser and Watson, *Sociology in Medicine*

Stanton & Schwartz (eds.), *The Mental Hospital*
Eliot Friedson (ed.), *The Hospital in Modern Society*
Paul Benjamin, *Health, Culture and Community*
T. McKeown, *Medicine in Modern Society*
J. S. Folta & E. S. Deck, *A Sociological Framework for Patient Care*
Samuel Bloom, *The Doctor and His Patient: A Sociological Interpretation.*

EXAMINATION: 1 paper.

Elements of Human Genetics S28

For second-year students reading sociology. 10 lectures in the first term.
Professor Fincham and Dr. Crawfurd

Courses for students reading for the degree of M.A. in Sociology

Research Methods S29

Mr. Royse

The course provides a basic training in the theory and methods of sociological research and includes related empirical course work. In addition to the general course, opportunity is provided for students to work in special areas of methodology of their choice.

The course builds on the undergraduate statistics and methodology courses and students are expected to be familiar with the basic statistical concepts and strategies normally included in such courses; these will be revised, however, at the start of the course. Account is also taken in the course of the relevance of computer facilities in social research and students will be able to take a Computer Appreciation Course provided by the Electronic Computing Laboratory.

The main areas covered, not necessarily in the order given, are:

1. *Research Design and Sampling:* research design and procedures; probability sampling and sampling design; statistical design of experiments, surveys and other empirical investigations; theory of data, measurement and indicators.

2. *Data Collection and Processing:* data matrices and types of covariance; types and forms of interviewing; questionnaire construction and control; other methods of data collection; coding procedures.

3. *Data Analysis:*

(a) Tabulation and presentation of data; statistical tests of significance and hypothesis testing; analysis of variance and covariance; measures of association; correlation and regression; nonparametric statistical tests.

(b) Scaling and measurement: introduction to scaling methods and multi-variate procedures.

Political Sociology S30

Dr. Nossiter

Advanced Sociological Theory S31

This course is designed to give graduate students with a training in sociology an opportunity to examine in detail the assumptions and status of several parts of contemporary sociological theory.

Courses for students reading for the Postgraduate Diploma in Health Services Administration

Social Structure, Public and Social Administration S32

The course is designed to introduce students to the more important features of the social structure of modern society. The second part of the course, analysing public and social policy and the way it is administered, draws heavily on the prior knowledge of sociological variables.

Social Structure. The meaning of social structure; the nature of social change. Social stratification: social class and social status; components, determinants and manifestations. The family: structure and functions of the modern family; changing family relationships, position of women. Social change and social pathology: deviance in a changing society; significance of norms; alienation and anomie. Social factors in mental illness and delinquent behaviour. Social change and social policy.

Social and Public Policy. Scope and content of social policy: some theoretical and philosophical points concerning the government's role in social welfare; the issue of re-distribution; the concept of "need". The development of central and local government involvement in the field of health and welfare. The National Health Service: evolution and formation. A critical review of its development and problems. Future changes and current debate. Local authority health and welfare services: policy and problems relating to the pre-school child, children and the young offender, the elderly and disabled; housing. Hospitals: changing role, problems of structure and finance; co-ordination and community medicine. Mental health: changing concepts of mental illness; changing patterns of care; staffing and finance. Social security: development; evaluation of Beveridge; "insurance" or social security; re-distribution; the extent of poverty; current developments. The coming of community care.

Community Health Care S33

Environmental and hereditary influences on disease; community aspects of disease, including administrative measures in relation to communicable and other diseases; descriptive epidemiology. Developments in health education; occupational and industrial health. Trends and patterns in disease and implications for health care planning; impact of developments in medical, surgical and nursing treatment and techniques; the contribution of para-clinical and para-medical services. Comparative study of developments in the systems of medical care in the United States, Western Europe and U.S.S.R.

Social Psychology of Organisations S34

The purpose of the course is to give students an appreciation of some of the human problems encountered in organisations. Behaviour of individuals: motivation; personality; conflict. Behaviour of groups: norms and conformity; roles; influences of technology on social structure; leadership; authority. Basic principles and methodology of problem-solving and conflict-resolution. Theories of organisation: bureaucracy; the structural approach; the 'human relations' approach; the systems approach; change and stability; the contributions of each to contemporary theories of organisation. Communication in the organisation. Consideration is given to organisational and environmental pressures on decision-making including the interaction of organisational and social sub-systems. Emphasis is placed on the unavoidable nature of the decision-maker's values and perceptions, and the determination of these. Emphasis is also placed on the relative effectiveness of various organisational forms and upon methods of effecting organisational change.

Statistics—including statistical method S35

The collection and classification of data, tabulations and data processing: descriptive statistics; averages and measures of dispersion; correlation and elementary sampling theory. Epidemiological factors: measures of mortality and morbidity; the principles underlying clinical trials; the nature of official data on health and disease; problems of forecasting. The use of computers in hospital activity, sampling and medical care. Socio-medical investigations and research.

Comparative Medical Care S36

A more detailed study of the organisation, provision and administration of existing and emerging systems of medical care and allied social welfare provision abroad. Special study will be made of the systems of the United States, the Soviet Union, France, Germany and

Scandinavia. Reference will also be made to the systems of care being evolved in certain of the developing countries of Africa and Asia. The following aspects will be specifically studied: Role of government and government agencies; national and local organisation and administration of institutional and domiciliary services; methods of finance and economic factors; manpower problems in the medical and social services.

Economics and Accounting S37

A general introduction to economic reasoning, with an examination of some of the central theories and concepts used in analysing the economic behaviour of decision-makers, e.g. governments, public enterprises, private firms. Macro-economics: examination of national economic policies; Gross National Product. Micro-economics of the National Health Services, particularly budgeting and cost-control mechanisms. Cost-benefit and cost-effectiveness in medical care. Consideration of administrative and financial care studies, drawn from the health care field in the United Kingdom and other countries. Study of public finance and taxation.

Medical Sociology (N) S38

Mr. Johnson

The role of the social scientist in medical care and sociological perspectives on health and disease. The socio-epidemiology of disease; social and psychological causes and results of illness and disease. Health norms and the deviant nature of illness. Illness as a form of human behaviour—a critical appraisal of "sick-role" theories. The social role of the patient. Problems of compliance and non-compliance. Examination of the role of the healing professions, including medical education and the medical sub-culture. The hospital as a social institution; the relevance of complex organisations theory; the therapeutic milieu; a critique of Goffman's "total institution" concept; psychiatric and general hospitals—an analytical comparison. The hospital and the community.

Social Research Methods S39

Mr. Johnson

An introduction to the theories and techniques of social research. Measurement and explanation in social research; the relation of theory, concepts and data, and problems of validity. Data sources and data collection—study design, alternative methods; descriptive and explanatory surveys; retrospective and prospective studies; formulation and testing of hypotheses. Data collection—the survey. Observation, interviewing, documentary sources. An examination of the principles and problems of questionnaire design. The self-administered questionnaire; the interview schedule. Sources of error and bias. Data analysis—Processing the data, establishing of causal relations. Interpretation of data and the fallacious correlation. Report presentation.

THE UNIVERSITY OF LEEDS

Faculty of Law

1971-72

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Ordinance IV

Degrees in Law

1. The degrees in law shall be:
Bachelor of Laws (LL.B.)
Master of Laws (LL.M.)
Master of Laws in Commercial Law (LL.M.Com.)
Doctor of Philosophy (Ph.D.)
Doctor of Laws (LL.D.)

The Degree of Bachelor of Laws

2. The degree of Bachelor of Laws may be conferred, on payment of the proper fee, upon candidates who have fulfilled the requirements of this Ordinance and the relevant regulations as to study and examinations; the degree may be awarded with honours to those candidates who attain a sufficiently high standard in the examinations.

3. All candidates for the degree of Bachelor of Laws shall be required to satisfy the requirements for entry upon a degree course as prescribed from time to time by the Joint Matriculation Board, except such as may have been exempted therefrom, and thereafter to have pursued an approved course of study for not less than three academic years; provided that graduates of the University other than graduates in law, or, subject to the approval of the Senate, graduates of other approved universities shall be required to have pursued an approved course of study for not less than two academic years.

4. (a) Every candidate for the degree of Bachelor of Laws shall normally be required to present himself for the first part of the final examination at the end of the second academic year and for the second part of the final examination at the end of the third academic year from the time of his entry upon the approved course of study.

(b) Except by special permission of the Senate, every candidate for the degree of Bachelor of Laws shall be required to present himself for the first part of the final examination not later than the end of the third academic year from the time of his entry upon the approved course of study.

(c) No candidate shall be allowed to proceed to the second part of the final examination unless he has previously satisfied the examiners in the first part.

(d) Except by special permission of the Senate, every candidate for the degree of Bachelor of Laws shall be required to present himself for the second part of the final examination not later than the end of the fifth academic year from the time of his entry upon the approved course of study.

(e) A candidate failing in either part of the final examination shall not be allowed, except with the special permission of the Senate, to present himself for re-examination in that part on more than one occasion.

(f) A candidate who does not attain a sufficiently high standard at the first attempt in each part of the final examination shall not normally be eligible for the award of the degree with honours.

5. A candidate admitted for a two-year scheme of study under article 3 of the Ordinance:

(a) shall normally be required to present himself for the scheme's first-year examinations at the end of the first academic year, and for the scheme's second-year examinations at the end of the second academic year from the time of his entry upon the approved course of study

(b) shall not, except by special permission of the Senate, be allowed to present himself for the scheme's second-year examinations later than the end of the third academic year from the time of his entry upon the approved course of study

(c) shall normally not be eligible for honours unless he attains a sufficiently high standard at the first attempt in the scheme's first- and second-year examinations.

6. Candidates who have passed both parts of the examination for the degree of Bachelor of Laws may be awarded:

(a) The degree of Bachelor of Laws with first-class honours
(b) The degree of Bachelor of Laws with second-class honours, division (i)
(c) The degree of Bachelor of Laws with second-class honours, division (ii)
(d) The degree of Bachelor of Laws with third-class honours
(e) The degree of Bachelor of Laws.

The Degree of Master of Laws
The Degree of Master of Laws in Commercial Law

7. The degree of Master of Laws or the degree of Master of Laws in Commercial Law may be conferred, on payment of the proper fee and subject to the conditions laid down in the following articles, upon Bachelors of Laws who have *either* followed an approved course of advanced study *or*, in exceptional circumstances, prosecuted research on an approved subject, and who thereafter satisfy the examiners for the degree.

Graduates of the University

8. Except with the special permission of the Senate, given on the recommendation of the Board of the Faculties of Arts, Economic and Social Studies and Law, graduates must, before their acceptance as candidates for either degree, have obtained the degree of LL.B. with honours.

9. Candidates proceeding to either degree *by examination* after a course of advanced study shall be required to fulfil the following conditions:

(a) to be registered as students of the University

(b) to be accepted by the Senate as candidates for the degree

(c) to pursue a course of advanced study in the University for a period of not less than one year

(d) to present themselves for a written examination and, if the examiners so decide, an oral examination in the field of their studies.

10. In exceptional circumstances, a candidate may, on the recommendation of the Board of the Faculties of Arts, Economic and Social Studies and Law, be allowed to proceed to the degree by the presentation of a dissertation satisfactory to the Senate on a subject approved by the Board of the Faculties of Arts, Economic and Social Studies and Law.

11. Candidates proceeding to either degree *by dissertation* shall fulfil the following conditions:

(a) to pursue a course of advanced study or research under the supervision of the head of the Department of Law or of a member of the University staff appointed by the Senate on his recommendation, for a period of not less than two years

(b) to attend such course or courses of tuition at the University as the Senate, on the recommendation of the Board of the Faculties of Arts, Economic and Social Studies and Law, may require

and, in addition, may be required at the end of the first year of study and before being allowed to proceed with the course *either* to pass a qualifying examination on the subject or subjects prescribed under (b) above; *or* to provide other evidence acceptable to the Board of the Faculties of Arts, Economic and Social Studies and Law that their work has been satisfactory.

Graduates of other universities

12. The degree of Master of Laws or the degree of Master of Laws in Commercial Law may be conferred, on payment of the proper fee, upon graduates in law of other approved universities who have obtained first-class or high second-class honours, or upon holders of an equivalent qualification or of a degree in law of standing higher than bachelor, and who have *either* followed an approved course of advanced study *or*, in exceptional circumstances, prosecuted research on an approved subject and who thereafter satisfy the examiners for the degree, subject to the conditions laid down in the following articles.

13. All candidates shall be required to fulfil the following conditions:

(a) to be registered as students of the University

(b) to be accepted by the Senate as candidates for the degree

(c) to pursue a course of advanced study or research in the University for a period of not less than two academic years; provided that candidates whose qualifications are deemed sufficient may be allowed to proceed to the degree *by examination* after they have followed, for a period of not less than one year, a course of advanced study in the University.

14. Except in the case of candidates allowed under the provisions of article 13, paragraph (c) to proceed to the degree by examination after a period of not less than one year, all candidates shall be required to attend, during their first year of study, such course or courses of tuition in the University as the Senate, on the recommendation of the Board of the Faculties of Arts, Economic and Social Studies and Law may require, and at the end of that year, and before being allowed to proceed with the course, to pass a qualifying examination.

15. Candidates proceeding to the degree by examination shall, at the end of the course, present themselves for a written examination and, if the examiners so decide, an oral examination in the field of their studies.

16. In exceptional circumstances, a candidate may, on the recommendation of the Board of the Faculties of Arts, Economic and Social Studies and Law, be allowed to proceed to the degree by the presentation of a dissertation satisfactory to the Senate on a subject approved by the Board of the Faculties of Arts, Economic and Social Studies and Law.

17. Candidates proceeding to either degree *by dissertation* shall fulfil the following conditions:

(a) to pursue a course of advanced study or research under the supervision of the head of the Department or of a member of the University staff appointed by the Senate on his recommendation, for a period of not less than two years

(b) to attend such course or courses of tuition at the University as the Senate, on the recommendation of the Board of the Faculties of Arts, Economic and Social Studies and Law may require

and, in addition, may be required, at the end of the first year of study and before being allowed to proceed with the course, *either* to pass a qualifying examination on the subject or subjects prescribed under (b) above *or* to provide other evidence acceptable to the Board of the Faculties of Arts, Economic and Social Studies and Law that their work has been satisfactory.

Examination results and re-examination

18. The names of candidates who have satisfied the examiners shall be published in alphabetical order in such form as to distinguish the degree which each has been awarded. *Distinction* may be awarded for work of exceptional merit at the discretion of the examiners.

19. Any candidate proceeding to the degree by course of advanced study and examination, who does not pass the examination at the first attempt, shall be allowed to present himself for re-examination on one further occasion only, in a subsequent year, provided that

(a) he shall present himself for re-examination in all the papers and may be required to submit himself for a further oral examination

(b) he shall not be eligible for the award of the degree with distinction.

The Degree of Doctor of Laws

20. The degree of Doctor of Laws shall be conferred by the University upon graduates of the University who shall be deemed by the Senate, after considering a report from one or more of the Boards of Faculties, to have distinguished themselves by special research or learning; provided that the Senate may in such cases as it shall think fit, after considering a report from one or more of the Boards of Faculties, also require candidates to pass such an examination as it may from time to time determine.

21. A graduate of the University may make application for the degree of Doctor of Laws in the sixth or any subsequent year from the date of graduation.

22. Such application shall be made in writing to the Registrar, and shall contain a full statement of the grounds on which the claim for the degree is based, together with one or more copies of any thesis, whether in print or in manuscript, which the applicant may desire to submit in support of the application.

Regulations

Candidates should note that in order to qualify for admission to a scheme of study for a first degree in the University, they must satisfy both a *General Requirement* and a *Course Requirement*. For information regarding the *General Requirement*, for purposes of matriculation, candidates should write to The Secretary, Joint Matriculation Board, Manchester, M15 6EU.

The Degree of Bachelor of Laws

Course Requirement

For admission to the scheme of study passes in any two approved subjects at advanced level are required.

Scheme of Study and Examinations

1. Candidates will not be admitted to the scheme of study unless they have satisfied the requirements for entry upon a degree course as prescribed from time to time by the Joint Matriculation Board.

2. Candidates must present themselves for departmental examinations arranged in connection with any courses they may take.

3. Candidates will not be permitted to present themselves for any examination unless they have regularly attended the classes prescribed in the course of study, and have performed the work of the classes to the satisfaction of the head of department.

4. Subject to Ordinance IV (above p. F1) every candidate shall be required:

(a) In his first year to attend courses on:
(i) constitutional law
(ii) elements of property law
(iii) English legal system and English legal method
(iv) law of contract.

At the end of the first academic year there shall be a qualifying examination in these subjects. Candidates must pass the qualifying examination as a whole before proceeding to the second year of the scheme of study.

A candidate who fails in one subject only may be referred in that subject. A candidate who fails in two subjects only shall fail the whole examination unless the examiners, having regard to his overall performance, refer him in those two subjects only. A candidate who fails more than two subjects shall fail the whole examination.

Supplementary qualifying examinations will be held (usually in the September following the end of the first academic year) for candidates who have failed or have been referred.

(b) In his second year to attend courses on:
(i) commercial law
(ii) criminal law
(iii) public international law
(iv) land law
(v) law of torts.

At the end of the second academic year there will be an examination (Part I of the final examination) in these subjects. Candidates who attain at the first attempt a sufficiently high standard in these examinations shall be allowed to proceed to the third year of the scheme of study.

(c) In his third year to attend courses on:
(i) equity and trusts
(ii) jurisprudence; and

(iii) any three of the following subjects:*
administrative law
company law (including partnership)
conflict of laws
conveyancing
criminology
evidence
law of employment
law and sociology of the family
legal history
mercantile law
revenue law
Roman law

At the end of the third academic year there will be an examination (Part II of the final examination) in these subjects.

5. A candidate who:

(a) attains a sufficiently high standard may be awarded the degree of Bachelor of Laws with honours
(b) does not attain a sufficiently high standard for the award of the degree of Bachelor of Laws with honours, may be awarded the degree of Bachelor of Laws
(c) fails the examination may be allowed to present himself for re-examination, on one further occasion only, for the degree of Bachelor of Laws and shall follow the scheme specified in regulation 6 below.

6. A candidate who does not attain a sufficiently high standard in Part I of the final examination for the degree of Bachelor of Laws with honours, may be allowed to proceed for the degree of Bachelor of Laws. Such a candidate shall, in the third year of his scheme of study, attend courses on:

(i) equity and trusts;
(ii) jurisprudence; and
(iii) subject to the approval of his choice by the head of the Department, any *two* of the optional subjects available in the third year of the scheme of study for the degree of Bachelor of Laws with honours (see above).

At the end of the third year of the scheme of study there will be an examination in these subjects. A candidate who satisfies the examiners may be awarded the degree of Bachelor of Laws.

7. A candidate who fails Part I of the final examination at the first attempt may be allowed to present himself for re-examination, on one further occasion only, in commercial law, criminal law, land law, and law of torts. Such a candidate may, on satisfying the examiners, be allowed to proceed for the degree of Bachelor of Laws and shall follow the scheme of study set out in regulation 6 above.

Two-Year Scheme of Study for Graduates

8. Candidates, who are graduates accepted under Ordinance IV for a two-year scheme of study, shall be required:

(a) In the first year to attend courses on:
(i) English legal system and English legal method
(ii) law of contract
(iii) law of torts; and
(iv) any two of the following subjects:
constitutional law
criminal law
public international law

* Not all these subjects will necessarily be offered every year, and additional subjects may be offered from time to time.

At the end of the first academic year there will be an examination in these subjects. A candidate who:

(1) attains a sufficiently high standard may be allowed to proceed to the second year of the two-year scheme of study for the degree of Bachelor of Laws with honours

(2) does not attain a sufficiently high standard may be allowed to proceed to the second year of the two-year scheme of study for the degree of Bachelor of Laws

(3) fails the examination may be allowed to present himself for re-examination on one further occasion only. Such a candidate may, on satisfying the examiners, be allowed to proceed to the second year of the two-year scheme of study for the degree of Bachelor of Laws.

(b) In the second year to attend courses on
(i) land law
(ii) commercial law; and
(iii) subject to the approval of his choice by the head of the Department, any *three* of the subjects available in the third year of the scheme of study for the degree of Bachelor of Laws with honours (see above).

At the end of the second academic year there will be an examination in these subjects.

9. A candidate who:

(a) attains a sufficiently high standard may be awarded the degree of Bachelor of Laws with honours

(b) does not attain a sufficiently high standard may be awarded the degree of Bachelor of Laws

(c) fails the examination may be allowed to present himself for re-examination, on one further occasion only, for the degree of Bachelor of Laws.

The Degree of Master of Laws

4. The examination for the degree of Master of Laws shall consist of five papers, one of which shall be an essay on a legal topic selected by the candidate and approved by the head of the department. The remaining four papers shall be selected by the candidate, subject to the approval of the head of the Department of Law, as follows:

(a) In the field of legal method and legal theory:
at least *one* but not more than *three* papers

(b) In the field of substantive English law or in comparative law:
at least *one* but not more than *three* papers

(c) In the field of economics, politics or social studies closely linked to law:
not more than *one* paper.

A list of the subjects offered in each of the heads (a), (b) and (c) is obtainable on request from the Chairman, The Advanced Studies Committee, The Faculty of Law, The University of Leeds, Leeds, LS2 9JT.

The Degree of Master of Laws in Commercial Law

5. The examination for the degree of Master of Laws in Commercial Law shall consist of five papers, one of which shall be an essay on a legal topic selected by the candidate and approved by the head of the Department. The remaining four papers shall be selected by the candidate, subject to the approval of the head of the Department of Law, as follows:

(a) In the field of the law of business, industrial and commercial organisations and their taxation:
at least *one* but not more than *three* papers;

(b) In the field of the law of business and commercial transactions and their taxation:
at least *one* but not more than *three* papers;

(c) In the field of the law of international business and commercial organisations and transactions:
not more than *one* paper.

A list of the subjects offered in each of the heads (a), (b) and (c) is obtainable on request from the Chairman, The Advanced Studies Committee, The Faculty of Law, The University of Leeds, Leeds, LS2 9JT.

The Degree of Master of Laws

The Degree of Master of Laws in Commercial Law

6. A candidate must not submit as his dissertation one for which a degree has been awarded in the University of Leeds or in any other university, or which is under consideration for the award of a degree in another university; but he will not be precluded from incorporating in his dissertation any part of such work provided that he states his desire to do so at the time of his application for acceptance as a candidate and in his dissertation itself indicates the part of the work so incorporated. A copy of the dissertation approved for the degree will be retained in the University Library.

[Applications for admission should be addressed to the Registrar, The University of Leeds, Leeds, LS2 9JT and should reach him by 30 April prior to the beginning of the academic year for which application is made. All other correspondence should be addressed to the Chairman, The Advanced Studies Committee, The Faculty of Law, The University of Leeds, Leeds, LS2 9JT.]

The Degree of Doctor of Philosophy

See the prospectus *Faculty of Arts*.

The Degree of Doctor of Laws

7. A candidate shall not be permitted to submit in chief or sole support of his application for the degree a thesis for which a degree has been awarded in this or any other university, or which is under consideration for the award of a degree in another university; but he shall not be precluded from submitting in additional support of his application a thesis for which a degree has already been awarded or from incorporating (in whole or in part) such work in the thesis submitted provided he clearly indicates the work thus submitted or incorporated.

8. If the application be approved by the Senate, the degree may be conferred at the first convenient date thereafter. A copy of the thesis approved for the degree shall be retained in the University library. The application must be accompanied by the prescribed fee.

Courses for the Degrees of Bachelor of Laws with Honours and Bachelor of Laws

Before the course students are recommended to read: James, *An Introduction to English Law;* Glanville Williams, *Learning the Law.*

First-Year Courses

1. Constitutional Law

A study of modern constitutional and administrative law.

Preliminary reading: Prophet, *Structure of Government.*

Textbooks: Wade and Phillips, *Constitutional Law* or Hood Phillips, *Constitutional Law;* Wilson, *Cases and Materials on Constitutional and Administrative Law.*

2. Elements of Property Law

An introduction to the study of the Law of Real and Personal Property.

Preliminary reading: Hargreaves, *Introduction to the Land Law.*

Textbooks: Megarry, *Manual of the Law of Real Property* or Megarry and Wade, *The Law of Real Property;* Crossley Vaines, *Personal Property.*

3. English Legal System and English Legal Method

This course will include a general survey of modern English legal institutions, their origin and development.

Textbooks: Jackson, *The Machinery of Justice in England* and Walker and Walker, *The English Legal System.*

Reference should be made to Abel Smith and Stevens, *Lawyers and the Courts;* Maitland, *The Forms of Action at Common Law;* Hood Phillips, *A First Book of English Law;* Kiralfy, *The English Legal System;* Radcliffe and Cross, *The English Legal System.*

4. Law of Contract

An introduction to the study of the Law of Contract.

Textbooks: Smith and Thomas, *Casebook on Contract;* Anson, *Principles of the Law of Contract;* or Cheshire and Fifoot, *Law of Contract;* or Sutton and Shannon, *Law of Contract.*

Reference should be made to Treitel, *The Law of Contract;* Atiyah, *Introduction to the Law of Contract.*

Apart from recommended preliminary reading, first-year students should await advice from lecturers and tutors at the beginning of the year before purchasing books. Reading lists for second- and third-year courses will be advised on completion of the preceding year.

Lectures and Tutorials

Courses of lectures are arranged in all the subjects prescribed for the degree of Bachelor of Laws.

Tutorials (usually two hours in each week during term time) are held for LL.B. students. Every student is placed under the personal supervision of a member of the staff for the whole of his course.

Tuition Fees

Full information concerning tuition and other fees will be found in the prospectus *Fees*, available from the Registrar, The University of Leeds, Leeds, LS2 9JT.

Appendices

The Relation of the Degree of Bachelor of Laws to the Professional Examinations and to the period of Articles

1. *The Bar examinations and call to the Bar*

A person wishing to be called to the Bar is required to join one of the four Inns of Court and must there keep terms by 'eating dinners'. Dr. M. R. R. Davies and Mr. J. Prophet, members of the staff, advise and assist students who intend to become barristers.

THE BAR EXAMINATIONS

In 1969 the Council of Legal Education introduced a new scheme for education and training for the Bar. This scheme applies to all students admitted to an Inn of Court after 31 March 1969, or in the case of students who graduated in 1969 after 30 June 1969. The following notes relate only to the new scheme, and are compiled from the Council of Legal Education's "New Scheme of Education and Training for the Bar". The scheme may be subject to further amendment.

The subjects for the new Part I examinations consist of two Groups as follows:

Group A
1. The law of contract
2. The law of tort
3. Criminal law
4. The law of land.

Group B
5. Constitutional and administrative law
6. The history of the legal system and of English law
7. Equity and trusts
8. Company law (including Partnership)

A person holding the degree of Bachelor of Laws with honours of Leeds University will normally be eligible for total exemption from Part I, provided that he or she takes appropriate options in the third year. Applications for exemption, and all queries regarding exemption should be addressed to the Secretary, The Council of Legal Education, Gray's Inn Place, London W.C.1.

No exemptions are granted from the new Part II examinations, which consist of six papers, three of which are compulsory and three of which may be selected from a number of optional subjects.

The three compulsory papers for the Part II examinations are:

1. General Paper No. 1
2. General Paper No. 2
3. Civil and criminal procedure and evidence.

The questions in the two general papers take the form of a statement of facts in some detail raising one or more questions of law. The required answers are to be in the form of an opinion advising the client, in addition to which the student may be required to draft an appropriate document such as a pleading, an indictment, a notice of appeal, etc. There are a choice of questions, of which two only need to be answered. In one paper are set problems of Common Law and Criminal Law; in the other problems on Equity and Land Law and upon some special topic studied in greater depth during the courses for Part II. The special subject will be changed at intervals of two or three years.

The optional papers are as follows (subject to further amendment):

1. Revenue law
*2. Divorce
*3. Landlord and tenant
*4. Hire purchase and sale of goods
*5. Local government and planning
*6. Practical conveyancing
*7. Conflict of laws
*8. Law of international trade
9. Public international law
10. Roman-Dutch law of property.

A student who intends to enter into actual practice at the Bar of England and Wales should note particularly that (a) his choice of options is restricted to Revenue Law plus two of the options marked with an asterisk above, and (b) attendance at the Part II course at the Inns of Court School of Law in London is compulsory. These two qualifications do not apply to any student who wishes to qualify as a barrister but who does not wish to practice.

2. *The Law Society's examinations and the period of articles*

A person seeking admission as a solicitor in England or Wales is required to have enrolled as a student with the Law Society, to have passed the Law Society's Qualifying Examination, and to have served for a period under articles of clerkship. Mr. J. R. Atkinson, Mrs. S. Plowright and Mrs. M. A. Richards, members of the staff, advise and assist students who intend becoming solicitors.

THE QUALIFYING EXAMINATION

This examination is in two parts, Part I comprising five heads:

1. Outlines of constitutional and administrative law and outlines of the English legal system
2. Contract
3. Torts
4. Criminal law
5. Land law.

A candidate may be granted exemption from Part I of the examination if he or she has passed a degree examination at one of the universities specified in the Society's regulations, which list includes Leeds, and who, in that examination, has passed in a head or heads equivalent to a head or heads in Part I of the Society's examination. Partial exemption may be granted to a candidate who, whilst having passed a degree examination, has failed to pass in one or more subjects equivalent to the head or heads in the Part I syllabus.

Persons holding the degree of Bachelor of Laws of Leeds University will, therefore, normally be eligible for total exemption from Part I of the examination, if, in their degree course, they have passed papers equivalent to those in the Part I syllabus.

No exemptions are granted from Part II of the Qualifying Examination, which comprises six compulsory heads, namely:

(a) Conveyancing
(b) Accounts
(c) Revenue law
(d) Equity and succession
(e) Commercial law
(f) Company law and partnership.

Candidates are also required to pass in one of the following optional heads, namely:

(g) Family law
(h) Local government law
(i) Magisterial law.

ARTICLES OF CLERKSHIP

After passing or being granted total exemption from Part I of the Qualifying Examination, every prospective solicitor must complete a period of service under articles of clerkship in the office of his principal for an uninterrupted period of not less than two years (the obligatory term). That is the shortest period a person may be required to serve under articles; in some cases it is longer, depending mainly upon the educational standard attained before entry into articles.

For a person who, before entering into articles, has taken a degree, not being an honorary degree, at Leeds University or who is in a position to supplicate for such a degree and who has passed or been granted total exemption from Part I of the Qualifying Examination, the period of articles is the obligatory two-year term. A graduate who has neither passed nor been granted total exemption from Part I of the Qualifying Examination may elect to pass any outstanding head or heads of Part I before entering into articles for a term of two years or he may enter into articles immediately for a period of two and a half years. In the latter event the entire obligatory term of two years must be served after passing any outstanding head or heads of Part I of the Qualifying Examination, even though the effect may be to extend the total period of service under articles beyond two and a half years.

A person who qualifies to be articled for the minimum term of two years may take Part II of the Qualifying Examination before entry into articles, provided he has enrolled as a student with the Law Society before giving notice of his intention to sit the examination. In such circumstances a candidate who passes in five or six heads may, during the first year of the obligatory term, present himself for re-examination in the head or heads which he has previously failed provided he achieved not less than a 'D' grade in such head or heads. Otherwise a person who, prior to entry into articles, has passed in at least three but less than five heads of Part II of the Qualifying Examination may take the outstanding heads after serving the obligatory term.

If Part II of the Qualifying Examination is not attempted before entry into articles a person may, subject to completing the obligatory term, take it whenever he wishes. Provided three heads are passed at the same sitting, the remaining heads may be taken together or separately. There are prescribed periods of notice to be given to the Law Society by candidates desiring to take Parts I and II of the Qualifying Examination.

ENROLMENT

Before a person may attempt either part of the Qualifying Examination or enter into articles of clerkship he must enrol as a student with the Law Society. The Society must be given six weeks' notice of intended enrolment, during which period a candidate is interviewed by a panel of solicitors who require to be satisfied as to his character, suitability and fitness for service as an articled clerk.

Applications for exemption from Part I of the Qualifying Examination, for forms of notice to be enrolled and to take the Society's examinations as well as enquiries for further information concerning qualifying as a solicitor, should be addressed to The Secretary (Education and Training), The Law Society, The Law Society's Hall, Chancery Lane, London, WC2A 1PL.

Prizes and Awards

In addition to the prizes and other awards open to all student members of the University, particulars of which will be found in the prospectus *Student Awards, Financial Aid, Medals and Prizes*, the following awards may be made to students in the Department of Law.

1. *The Hughes Prizes*

Upon the retirement, in 1951, of Professor J. D. I. Hughes, a fund was raised by contributions from students, former colleagues, and members of the legal profession. In accordance with the wishes of Professor Hughes this fund has been devoted to the following purposes:

(a) To the award of a prize of law books (not exceeding the value of £5) to be made yearly to the most successful candidate* in the summer examination for first-year students reading for the degree of Bachelor of Laws.

(b) To the award of a prize (not exceeding the value of £10) to be made yearly to the most successful candidate* obtaining honours in the final examination for the degree of Bachelor of Laws.

(c) To a special award, the holder of which shall be known as a 'Hughes Prizeman'. This award will only be made to a candidate who obtains honours in the final examination for the degree of Bachelor of Laws and whose work is of outstanding merit. The value of the award will depend upon the amount of accumulated income available in any particular year, after provision has been made, if necessary, for prizes (a) and (b). In a year in which a Hughes Prizeman is elected, prize (b) may also be awarded to another candidate.

HUGHES PRIZEMEN

1954 P. R. Milligan
1961 P. A. Lovell
1967 T. J. Follows

2. *The William Harrison and Margaret Simpson Harrison Endowments*

In 1967 William Harrison, LL.D., a graduate of the Law School, and his wife Margaret Simpson Harrison, provided an endowment for the following purposes:

(a) For the provision of a scholarship to be awarded from time to time to a student of outstanding ability.

(b) For the provision of assistance for graduate students of high academic merit to assist them in completing their professional training.

(c) For the provision of a William Harrison Graduate Scholarship to be awarded upon recommendation to graduate students of outstanding ability to assist them in the pursuit of approved higher studies in law in this University or elsewhere.

(d) For the provision of Margaret Simpson Harrison Graduation Prizes (to the value of £5 each) to be awarded upon recommendation to the most successful candidates in each of the following subjects of the final examination for the LL.B.:

Common law (Contract and Torts)
Equity
Jurisprudence
Land law

(e) For the provision of a Margaret Simpson Harrison Prize (to the value of £10) to be awarded annually upon recommendation to the most successful student in the second-year departmental examination held for LL.B. students.

3. *The Batt Prize*

This prize was established in 1962 from funds presented by Mrs. A. H. Batt in memory of her husband, K. F. Batt, a student in the Department of Law from 1959 to 1962. The prize, to the value of approximately £5, will be awarded annually by the Senate upon the recommendation of the head of the Department of Law, to the most meritorious candidate in the final examination in criminal law. If in any year no candidate is deemed to have attained a sufficiently high standard the prize will not be awarded and the interest accruing in that year will be added to the capital fund.

*Awards of prizes (a) and (b) will only be made in years in which the work of the most successful candidate shows sufficient merit.

4. *The Kenneth Hargreaves Studentships in Law*

The studentships were instituted in 1963 by Brigadier Kenneth Hargreaves, *C.B.E.*, *T.D.*, D.L. and are to the total annual value of £600. They may be awarded for the purpose of assisting deserving students to complete their studies in the Faculty of Law or to prosecute advanced study and research in the Faculty of Law, preference being accorded to students in the field of commercial law.

[Further details may be obtained from the University Registrar]

5. *The Bedford Cup*

In 1954, Mr. G. M. Bedford, Bachelor of Laws, a former student of the Department of Law, and an ex-president of the Leeds University Union Law Society, presented a silver cup to be awarded annually to any student [being a member of the society] who shall be adjudged, as the result of an annual competition, the most proficient public speaker of his or her year.

HOLDER

1971 T. Robinson

6. *The Norris Cup*

In 1969, Mr. B. Norris, Bachelor of Laws, an ex-president of the Leeds University Law Society, presented a silver cup to be awarded annually for the best performance in a mooting competition.

HOLDERS

1971 J. Dowse and Miss C. J. Jones

The Leeds University Union Law Society

Membership of this society is open to all members of the University Union and will be of particular interest to students of law. A small membership subscription is charged. The society holds frequent meetings, moots and debates, and arranges an annual dinner to which members of staff, and one eminent guest, are by tradition invited. The aims of the society, apart from offering social activities, are to promote interest in the law, and to give students as much practice as possible in public speaking.

The Library

The Law Library, which (though it is a part of the Brotherton Library) is situated in the Law Faculty Building, has been very considerably augmented largely due to generous gifts by three graduates, the late Judge Frankland, Dr. William Harrison and Mr. R. C. Yablon. It contains valuable collections of textbooks in every field of law and all the more important legal periodicals, as well as all the standard United Kingdom Law Reports, and many Reports from Commonwealth countries. In 1965 Mr. R. C. Yablon made a gift of £5,000 for the purchase of books on American law. A considerable number of American law reports are now in process of being collected for the Library.

There is also a growing Law Rental Library. The subscription, which is paid by all students, is £3 per annum, and in return for this each student may borrow three books during the term and four during the vacation.

The University of Leeds Careers and Appointments Service

The University provides a careers advisory service and helps students and graduates to obtain posts. Students are welcome to use the Service throughout their time at the University. Enquiries should be addressed to The Secretary, The Careers and Appointments Service, The University of Leeds, Leeds, LS2 9JT.

THE UNIVERSITY OF LEEDS

Faculties of Science and Applied Science
1971-72

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ORDINANCE V. DEGREES IN PURE SCIENCE AND IN APPLIED SCIENCE

1. The degrees in pure science and applied science shall be:
Bachelor of Science (B.Sc.)
Master of Science (M.Sc.)
Master of Philosophy (M.Phil.)
Doctor of Philosophy (Ph.D.)
Doctor of Science (D.Sc.)

THE DEGREE OF BACHELOR OF SCIENCE

2. The degree of Bachelor of Science, either as an ordinary degree or as an honours degree, shall be conferred upon candidates who have fulfilled the requirements as to study and examinations.

3. All candidates for the degree of Bachelor of Science shall be required to have passed the examination for matriculation or to have obtained a certificate of exemption therefrom, before entering upon a degree course and thereafter to have pursued a prescribed scheme of study for not less than three academic years, except as provided in Ordinance X, *Calendar*, Part I, page 43.

4. A candidate may transfer from any scheme of study leading to the degree of Bachelor of Science to any other scheme of study leading to the degree of Bachelor of Science with the approval of the heads of departments concerned (or, in respect of combined studies schemes, the Director of Combined Studies) and in conformity with the provisions laid down by the Board of the Faculties.

5. Except with the special permission of the Senate:

(a) Every candidate for the degree of Bachelor of Science shall be required to present himself for the examination for the degree not later than the end of the fifth year of study in the University from the time when he entered upon a scheme of study prescribed for the degree.

(b) No candidate will be allowed to present himself for any re-examination for the degree of Bachelor of Science later than the end of the sixth calendar year after his entry upon a prescribed scheme of study.

6. A candidate who has been awarded the degree of Bachelor of Science may not present himself a second time for the examination on the same scheme of study.

THE ORDINARY DEGREE OF BACHELOR OF SCIENCE

7. The ordinary degree of Bachelor of Science may be awarded to candidates who have pursued a scheme of study prescribed for the ordinary degree of Bachelor of Science and have passed the required examinations.

8. The ordinary degree of Bachelor of Science may be awarded with credit in conformity with provisions laid down by the Board of the Faculties.

THE DEGREE OF BACHELOR OF SCIENCE WITH HONOURS

9. Candidates who have pursued a prescribed scheme of study for the degree of Bachelor of Science with honours and have passed the required examinations may be awarded:

(i) the degree of Bachelor of Science with honours, class I

or (ii) the degree of Bachelor of Science with honours, class II, division (i)

or (iii) the degree of Bachelor of Science with honours, class II, division (ii)

or (iv) the degree of Bachelor of Science with honours, class III

or (v) the degree of Bachelor of Science.

10. Except with the special permission of Senate, a candidate presenting himself on a second or subsequent occasion for the same honours examination shall not be eligible for the award of a classified honours degree.

11. Candidates who have not attained a sufficiently high standard in the examination for the degree of Bachelor of Science with honours to merit the award of that degree may, if they have fulfilled the requirements of the ordinary degree, be awarded that degree.

12. A candidate who has passed the examinations for an ordinary degree may be permitted to proceed with an approved scheme of study for the degree of Bachelor of Science with honours and to present himself for examination for the degree with honours, subject to the provisions of article 5(a) of this Ordinance.

13. A candidate who has passed the examinations prescribed for the degree of Bachelor of Science with honours may, with the permission of the Senate given on the recommendation of the Board of the Faculties, present himself for examination for the degree of Bachelor of Science with honours on another of the prescribed schemes of study in the Faculties of Science and Applied Science after attending approved courses in the University for not less than one further year.

THE DEGREE OF MASTER OF SCIENCE

14. The degree of Master of Science may be conferred, on payment of the proper fee, and on satisfactory completion of an approved full-time or part-time scheme of advanced study in the University and on the passing of the prescribed examinations:

(a) upon graduates of the University of Leeds or of any approved university

(b) in approved cases upon persons who are not graduates

(c) upon persons holding such other qualifications as may be deemed by the Senate to be acceptable as equivalent to or in lieu of a degree

provided that all such persons have qualifications which are acceptable to the Senate as an appropriate preparation for the particular advanced study scheme involved.

15. Schemes of advanced study leading to the degree of Master of Science may vary in length from subject to subject but the period of full-time study shall not be less than one academic year and the period of part-time study shall not normally be less than two academic years.

16. Candidates who have graduated with first- or second-class honours or whose qualifications are deemed equivalent to a first- or second-class honours degree, or who have gained a post-graduate diploma at a sufficiently high standard in a subject regarded as an adequate preparation will be eligible to proceed to the degree after the minimum period of study prescribed in article 15 above.

17. Candidates who hold a degree or a qualification which is deemed equivalent to a degree but who are unable to satisfy the requirements of article 16 above may be accepted for the degree on the recommendation of the appropriate Board of Faculty and will normally be required to undertake an approved scheme of advanced study for such period in excess of the minimum as may be determined in each case.

18. In exceptional cases, approved by the Senate on the recommendation of the appropriate Board of Faculty, candidates accepted under the provisions of article 17 above may be permitted to proceed to the degree after the minimum period of study appropriate to their scheme of study if they have, following upon the award of their first degree, gained industrial or other experience of special relevance to the scheme of advanced study they wish to pursue. (See also the regulations on page G5).

THE DEGREE OF MASTER OF PHILOSOPHY

The degree of Master of Philosophy is governed by Ordinance VIII, articles 10 to 20 and relevant regulations which are set out on pages G7-8 and G11.

THE DEGREE OF DOCTOR OF PHILOSOPHY

The degree of Doctor of Philosophy is governed by Ordinance VIII, articles 21 to 28 and relevant regulations which are set out on pages G8-10 and G12.

THE DEGREE OF DOCTOR OF SCIENCE

19. The degree of Doctor of Science is conferred by the University upon graduates of the University who shall be deemed by the Senate, after considering a report from one or more of the Boards of Faculties, to have distinguished themselves by their original contributions to science; provided that the Senate may, in such cases as it shall think fit, after considering a report from one or more of the Boards of Faculties, also require candidates to pass such an examination as it may from time to time determine.

20. A graduate of the University may make application for the degree of Doctor of Science in the sixth, or any subsequent year from the date of graduation.

21. If the application be approved by the Senate, the degree may be conferred at the first convenient date thereafter.
(See also the regulations on page G6.)

THE DIPLOMAS IN PURE AND APPLIED SCIENCE

Diplomas are governed by Ordinance XVI (*Calendar*, Part I, page 45).

Regulations

THE DEGREE OF BACHELOR OF SCIENCE

1. For admission to schemes of study for the degree of Bachelor of Science candidates must comply with any special requirements relating to the subjects they propose to study; for some of these previous knowledge of certain subjects may be required.

2. Candidates proceeding to the degree of Bachelor of Science are required to pursue courses as prescribed in the ensuing sections 'Prescribed Schemes of Study for the Degree of Bachelor of Science'.

3. Except as provided in Ordinance X, candidates who satisfy the examination requirements for the ordinary degree in two sessions must satisfactorily pursue a scheme of study in the third session approved by the Board of the Faculties and present themselves for the examinations thereon.

4. Candidates must present themselves for the examinations arranged in connection with any courses prescribed in their scheme of study, except that candidates will not be permitted to present themselves for examination in any subject unless they have satisfactorily attended the prescribed courses and performed the work of the class to the satisfaction of the head of the department providing the course of study.

5. Except as permitted by the Board of Faculties, a candidate may not proceed to a more advanced course in a subject until he has attained a sufficient standard in the examination on the preceding course laid down for that subject.

6. Degree examinations will ordinarily be held in June of each year. Unless they are deemed by the examiners not to have made a serious attempt at the examination, candidates failing in one or more courses in the examinations at the end of their first year of residence may be permitted to present themselves for re-examination in the following September, but except with the special permission of the Senate no candidate will be admitted to a September re-examination unless he has already presented himself for the corresponding examination in the preceding June.

7. The record of students at examinations on courses taken earlier in the scheme of study may be taken into account in assessing the results of degree examinations.

8. Candidates may with the consent of the head of the department (or, in respect of combined studies schemes, the Director of Combined Studies) offer additional courses or courses at a more advanced grade than those required by the prescribed scheme of study for the degree. Additional courses need not be confined to the Faculties of Science and Applied Science.

9. Candidates presenting themselves for examination on a course and failing to pass may, at the discretion of the examiners, be recommended for a pass in a course in that subject of a less advanced grade.

10. With the approval of the Board of the Faculties, candidates for the ordinary degree of Bachelor of Science who have failed examinations on a prescribed course or courses at the second- or third-year level, may offer equivalent courses and examinations in substitution.

11. Candidates will be required to show by examination to the satisfaction of their head of department that they have attained a standard sufficient for the purpose of their scheme of study in courses prescribed for the first year of a four-year scheme of study (or in the first year

of a three-year scheme of study for an ordinary degree) which are not prescribed in the approved scheme of study for the same subject for a later year, nor are included in the three-year scheme of study for honours.

12. The names of candidates who have passed the examination for the degree of Bachelor of Science shall be grouped so as to distinguish the main subject or subjects of the scheme of study in which each candidate has passed. The names of candidates in each group shall be arranged alphabetically within the list for each class for the degree of Bachelor of Science with honours and within the list for the ordinary degree of Bachelor of Science.
(Attention is drawn to the general regulations for all examinations set out in the prospectus *General Regulations*, pages A9-10.

THE DEGREE OF MASTER OF SCIENCE

13. Candidates accepted for the degree of Master of Science shall be required:

(a) to be registered as students of the University

(b) to attend to the satisfaction of their head of department such course or courses of instruction in the University as the Senate, on the recommendation of the appropriate Board of Faculty, may require

(c) if accepted under the provision of article 17, to give evidence, by examination or otherwise, to their head of department not later than the end of the third term of their period of study that their progress has been satisfactory.

14. Schemes of advanced study approved for the purpose of the degree of Master of Science will normally start in October each year, at the beginning of the academic session.*

15. The examination for the degree may include, in addition to any written papers, assessment of a dissertation on a minor research project and, at the discretion of the examiners, an oral examination.

16. The names of candidates who have satisfied the examiners shall be arranged in alphabetical order, and distinction may be awarded for work of exceptional merit.

17. A candidate who has failed in the examination for the degree of Master of Science may be permitted, on the special recommendation of the examiners, to present himself for re-examination on one occasion only.

THE DEGREE OF MASTER OF PHILOSOPHY

The degree of Master of Philosophy is governed by Ordinance VIII, articles 10 to 20 and relevant regulations which are set out on pages G7-8 and G11.

THE DEGREE OF DOCTOR OF PHILOSOPHY

The degree of Doctor of Philosophy is governed by Ordinance VIII, articles 21 to 28 and relevant regulations which are set out on pages G8-10 and G12.

* Details of the scheme approved in each subject and prescribed examinations are given on pages G101-15.

THE DEGREE OF DOCTOR OF SCIENCE

18. Application for the degree of Doctor of Science shall be made in writing to the Registrar. It should be accompanied by three copies of the thesis and/or publications submitted in support of the application. Theses not already published must be drawn up in a form suitable for publication. In the case of work submitted under joint authorship, the applicant must indicate to the satisfaction of the Senate his own share in the joint production. A copy of the thesis approved for the degree will be retained in the University library. A candidate must not submit in chief or sole support of his application for the degree a thesis for which a degree has been awarded in this or any other university, or which is under consideration for the award of a degree in another university; but he will not be precluded from submitting in additional support of his application a thesis for which a degree has already been awarded or from incorporating (in whole or in part) such work in the thesis submitted provided he clearly indicates the work thus submitted or incorporated.
The application must be accompanied by the prescribed fee.

DIPLOMAS IN THE FACULTY OF APPLIED SCIENCE

19. Candidates for diplomas are required to pursue courses as prescribed in the ensuing section 'Prescribed Schemes of Study for Diplomas', to give satisfactory attendance at all courses which form part of their scheme of study, and to present themselves for any departmental examinations that may be required.

20. At the end of the scheme of study candidates will be required to present themselves for such examination in the main subject of study as may be prescribed. The record of students at departmental examinations will be taken into account in deciding the results of the diploma examination.

21. Some deviation from the prescribed courses may be sanctioned in special cases and students who on entering upon a diploma course produce evidence that they possess a sufficient knowledge of the work done during a part of the course may be excused some attendance. Applications for excusal from attendance should be made to the head of the department concerned, who shall bring them before the standing committee of the Senate appointed to deal with such matters.

ORDINANCE VIII. RESEARCH DEGREES

1. The research degrees shall be:

Bachelor of Divinity (B.D.)
Master of Education (M.Ed.)
Master of Laws (LL.M.)
Master of Laws in Commercial Law (LL.M.Com.)
Master of Philosophy (M.Phil.)
Doctor of Philosophy (Ph.D.).

THE DEGREE OF MASTER OF PHILOSOPHY

10. The degree of Master of Philosophy may be conferred, on payment of the proper fee, and on presentation of a thesis, on candidates who have completed approved research (in addition to which courses of advanced study formally examined may be prescribed by the Senate) and who thereafter satisfy the examiners for the degree; subject to the fulfilment of the conditions laid down in the following articles and in the regulations governing the award of the degree (see page G11).

11. Except as provided in subsequent sections of this Ordinance, the period of full-time or, where appropriate, part-time study will normally be not less than two academic years.

12. Graduates of the University of Leeds may present themselves for examination for the degree of M.Phil. in an approved subject without being required to attend the University, or to study under the supervision of a member of staff, or to pay fees other than the examination fee. Such candidates are, however, required to consult fully with the appropriate head of department on their subject of research and programme of work. In all other respects they will be required to satisfy the conditions as laid down in the Ordinance and the regulations governing the award of the degree.*

Candidates in the Faculty of Science, Applied Science and Medicine

16. Graduates of any approved university and of any faculty in this University, persons who have been awarded an approved diploma in applied science of this University in a subject regarded by the Senate as an appropriate preparation for the proposed research, or persons whose qualifications by study in an approved institution have been accepted by the Senate as equivalent to or in lieu of a degree, may be accepted as candidates for the degree of M.Phil. and shall fulfil the conditions laid down in the following articles to qualify for the award of the degree.

17. Candidates shall undertake research work, normally extending over not less than two academic years under supervision in the University on a subject approved by the appropriate committee and shall thereafter present a thesis embodying the results of their research. They shall also attend such formal courses of instruction as may be prescribed by the head of the department concerned.

* Such candidates are advised to maintain regular contact with the department, which should be kept informed about the progress of their studies.

18. (a) Candidates who have

(i) graduated as Bachelors of Science with first- or second-class honours or who hold qualifications which are deemed equivalent or

(ii) been awarded an approved postgraduate diploma in a subject regarded by the Senate as an appropriate preparation for the proposed research and achieved a sufficiently high standard in the examination or

(iii) obtained qualifications by study in an approved institution accepted by the Senate on the recommendation of the appropriate committee as equivalent to a first- or second-class honours degree,

may be allowed to present themselves for the degree before the expiry of two academic years provided that they have prosecuted research under supervision in the University for a period of not less than one calendar year and made satisfactory progress. Although the award of the degree may be approved at an earlier date it may not be conferred until a period of two academic years has elapsed from the date of the commencement of the candidate's study;

(b) Candidates qualified under (i) to (iii) in (a) above who have industrial or other experience of special relevance to their subject of research may, on the recommendation of the head of the department concerned and of the appropriate committee, receive the degree before the expiry of two academic years provided that they have prosecuted research under supervision in the University for a period of not less than one calendar year and thereafter satisfied the examiners.

19. Persons qualified under article 16 who are

(a) members of the full-time teaching staff of any institution approved in each case by the Senate for this purpose; or

(b) members of the staff of industrial or scientific establishments geographically near to the University and approved by the Senate in each case for this purpose;

shall be required to undertake approved research under supervision, normally by a member of staff of the University, both at their place of work and in the University for a total period extending over not less than nine terms.

20. In exceptional cases, persons who are not graduates but who have satisfied the Senate that their educational attainments and experience are adequate may be accepted as candidates for the degree with such period of full-time or part-time study as may be prescribed in each case.

THE DEGREE OF DOCTOR OF PHILOSOPHY

21. The degree of Doctor of Philosophy may be conferred, on payment of the appropriate fee and on presentation of a thesis, subject to the conditions in the following articles and in the regulations governing the award of the degree (see page G12):

(a) on persons who are registered graduates of the University of Leeds or graduates of an approved university;

(b) on the holder of a recognised degree awarded as a result of study at an approved institution other than a university; or of a diploma awarded by such an institution not empowered to confer degrees; or of any other qualification approved for this purpose by the Senate; provided that the course of study in the subject for which the degree has been awarded has extended over not less than three years of full-time study and is acceptable to the Senate as being an adequate preparation for the research proposed;

(c) in exceptional circumstances, on the holder of a diploma of the University of Leeds, provided that the Senate is satisfied regarding the course of study towards such diploma and the standard attained by the candidate in the examination for the diploma.

22. A candidate applying for acceptance for the degree under the provisions of paragraphs (b) and (c) of article 21 will be required to present to the Senate evidence of a satisfactory general education; and in the absence of such evidence may be required to pass an examination to be prescribed in each case by the Senate, before his acceptance.

23. Except as may hereinafter be provided, all candidates for the degree of Doctor of Philosophy are required to pursue for not less than three academic years (of which not less than two calendar years must be of full-time study in residence at the University) an approved course of advanced study and research under such supervision and direction as may be prescribed.

24. In special circumstances, candidates may be permitted to devote such periods as may be deemed advisable by the Senate to full-time study and research in other approved universities or institutions, or in an approved scientific or industrial establishment, while remaining under the direction of the University or of persons nominated by the University, provided that they spend in the University not less than one calendar year or an equivalent period prescribed by the Senate.

(Persons working in approved scientific or industrial establishments will be eligible for acceptance for the degree of Doctor of Philosophy under the provisions of article 24 only if the terms of their employment permit them to devote their whole time to their research for the degree; and will normally be expected to be in full-time residence at the University for at least the first two terms of their course, when they may be required to attend formal instruction at an advanced level. The Senate reserves the right to extend the overall minimum period of study of three academic years in such cases.)

25. Normally, applicants for acceptance as candidates for the degree of Doctor of Philosophy under the provisions of article 21 above will, in the first instance, either be required to apply for acceptance as candidates for the degree of Master of Philosophy or be asked to register as research students, and may, with the approval of the appropriate committee, be accepted as candidates for the degree of Doctor of Philosophy on completion of their first year of study to the satisfaction of the head of the department concerned. The Senate may waive this requirement in the case of

(a) persons already holding a higher degree of an approved university or institution awarded on completion of a course of advanced study or research undertaken after the award of a first degree;

(b) persons whose academic qualifications reach the required standard and who have, in addition, industrial or other experience of special relevance to the proposed subject of research, and who are recommended by the head of the department concerned as being suitably qualified for direct acceptance for the degree.

26. Candidates in the Faculties of Science, Applied Science and Medicine whose academic qualifications reach the required standard and who have industrial or other experience of special relevance to the proposed subject of research or who have made outstanding progress in their studies may, on the recommendation of the head of the department concerned and with the approval of the appropriate committee, present themselves for the examination for the degree after a minimum of two calendar years of full-time study. Such candidates shall not be eligible to have the degree conferred upon them (except as specified in article 27) until the expiry of the full miminum period of study of three academic years.

27. The Senate shall be empowered:

(a) to reduce, in exceptional cases, the minimum period of three academic years of full-time study for the degree of Doctor of Philosophy in cases where the academic qualifications of a

candidate or the excellence of his work for the degree merit such a reduction, provided that no candidate may have the degree conferred upon him before the completion of two calendar years of full-time study, or such equivalent period as may be determined;

(b) to permit persons holding approved higher degrees to present themselves for examination for the degree after two calendar years.

28. In the case of persons accepted for the degree under article 21 (a) and (b) above, the normal requirement of three academic years of full-time study may be waived at the discretion of the Senate. Such candidates will be required to undertake a part-time course of advanced study and research in the University for a minimum period of *three calendar years;* and during this period to maintain such personal contact with their supervisor as may be prescribed by the appropriate committee.

(The provisions of article 28 will normally be restricted to candidates already holding a higher degree obtained by advanced study and research, or other relevant qualification or experience. (See also the regulations on page G12).

Regulations. Research Degrees

THE DEGREE OF MASTER OF PHILOSOPHY

All Candidates

12. Except in the case of graduates of the University accepted as candidates under the provisions of article 12 of Ordinance VIII, all candidates for the degree of M.Phil. shall be required:

(a) to be registered as students of the University

(b) to undertake an approved course of research or combination of research and advanced study, as prescribed by the appropriate committee, under the supervision of the head of the department concerned or any other person nominated for this purpose by the University

(c) to give evidence of satisfactory progress by such means as may be prescribed by heads of departments

(d) to satisfy the examiners for the degree.

13. A candidate must not submit as his thesis one for which another degree or similar qualification has been awarded, or which is under consideration for such an award; but he will not be precluded from incorporating in his thesis any part of such work provided that he states his wish to do so at the time of his application for acceptance as a candidate and in the thesis itself indicates the part of the work so incorporated.

14. In all subjects the examination for the degree may, at the discretion of the examiners, include an oral examination and such other test as may be deemed appropriate.

15. Not less than three months before the completion of his course the candidate must make application to the Registrar to be examined. Thereafter, but not more than six weeks before the end of the course, the candidate must submit two copies of a thesis each containing a short abstract which should be bound at the front of the thesis. Theses must be bound in a standard form, particulars of which may be obtained from the Registrar. The top copy (not the first carbon copy) of the thesis approved for the degree will be retained in the University library.

Normally there will be a period of six to eight weeks between the submission of the thesis and the announcement of the result of the examination.

16. The names of candidates who have satisfied the examiners shall be arranged in alphabetical order, and distinction may be awarded for work of exceptional merit.

Candidates in the Faculties of Science, Applied Science and Medicine

20. Candidates accepted under the provisions of articles 19 and 20 shall be required:

(a) to be registered as students of the University

(b) to maintain frequent personal contact with their supervisors and to attend in the University for periods as specified in individual cases by the appropriate committee

(c) to give evidence by examination or otherwise to the head of department concerned not later than the end of the third term of their period of study that their progress has been satisfactory.

THE DEGREE OF DOCTOR OF PHILOSOPHY

21. Before entering on the course of advanced study and research, a candidate must:

(a) submit to the Senate for its approval his proposed course of advanced study and research and present evidence satisfactory to the Senate that he is qualified to undertake the proposed course;

(b) register as a student of the University and pay the prescribed fees for tuition.

22. Except with the special permission of the Senate, no candidate for the degree of Ph.D. may submit a thesis later than six years if engaged in full-time study, or later than eight years in part-time study, from the date of registration for the degree.

23. On completing the course of advanced study and research a candidate must:

(a) present a thesis of the subject of his advanced study and research, and satisfy the examiners that it contains original work worthy of publication, and that it is of a sufficient standard of merit to qualify for the degree of Doctor of Philosophy;

(b) present himself for an oral examination, except in the case of mathematics, on matters relevant to his thesis and, if required, for a written examination, and satisfy the examiners in the examination as well as in the thesis presented.

24. The application of a candidate for admission to the course for the degree must give particulars of his educational career and qualifications as well as the subject of his proposed course of advanced study and research. The application must be addressed to the Registrar.

(A candidate is advised, before making application to the Registrar, to consult the head of the department which is concerned with the subject he proposes to study.)

25. A full-time candidate during his course must devote his whole time to his advanced study and research; but in exceptional cases the Senate is prepared to allow the candidate to undertake a limited amount of outside work which, in its judgment, would not interfere with the prosecution of his proposed course of advanced study and research.

26. A candidate must not submit as his thesis one for which another degree or similar qualification has been awarded, or which is under consideration for such an award; but he will not be precluded from incorporating in his thesis any part of such work provided that he states his wish to do so at the time of his application for acceptance as a candidate and in the thesis itself indicates the part of the work so incorporated.

27. It will be generally convenient that the candidate's course should begin at the opening of the academic year in October; but the Senate is prepared to consider applications for leave to begin the course at some other time.

28. Not less than three months before the completion of his course the candidate must make application to the Registrar to be examined. Thereafter, but not more than six weeks before the end of the course, the candidate must submit two copies of a thesis each containing a short abstract which should be bound at the front of the thesis. Theses must be bound in a standard form, particulars of which may be obtained from the Registrar. The top copy (not the first carbon copy) of the thesis approved for the degree will be retained in the University Library.

29. Normally there will be a period of six to eight weeks between the submission of the thesis and the announcement of the result of the examination.

RULES REGARDING PROGRESS PROCEDURE

1. A clear indication will be given to each student at the outset of his course that unless there are special circumstances affecting his progress he will be expected to fulfil the University's examination requirements within the normal time.

2. Warnings, not necessarily in writing, may be given to students at any time by heads of departments, deans or sub-deans that failure to improve the standard of their work may lead to their course of study being terminated.

3. A student may be required to terminate his course, after consideration of his examination results, without previously having been warned.

SCHEME OF CO-OPERATION FOR POSTGRADUATE STUDY BETWEEN THE UNIVERSITY OF LEEDS AND THE WOOL INDUSTRIES RESEARCH ASSOCIATION

Duly qualified graduates in science or technology may fulfil the requirements of the Ordinances and regulations governing the degrees of Master of Philosophy (see pages G7-8 and G11) and Doctor of Philosophy (see pages G8-10 and G12) of the University and may proceed to either degree after carrying out research at the Wool Industries Research Association, Leeds, LS6 1BW under the Director of that Association.

Graduates of universities other than Leeds, and Leeds graduates without satisfactory previous training in textile industries who wish to avail themselves of these facilities must attend approved courses in the Department of Textile Industries for at least one year, normally *before* they begin work at Wira. In exceptional circumstances and with the approval of the Senate the fulfilment of this requirement may be concurrent with the period at Wira.

Students reading for higher degrees under the scheme will be, throughout, under the immediate and direct control of the Director of the Wool Industries Research Association who must be approved by the University for this purpose, but periodical discussion of the work will take place between the Director and head of the Department of Textile Industries. For the purposes of the scheme, the Director has been appointed an honorary member of the staff of the Department of Textile Industries, with the title of Director of Research Students at Wira. All students proceeding to degrees through research carried out at Wira must be duly registered students of the University and, as such, will be subject to its discipline. They will be required to pay such fees for tuition as the University Council may determine and on payment of the appropriate additional fees they shall be entitled to all student facilities, for example, University Union membership, library, residence, health service, careers and appointments service.

Schemes of Study for Degrees and Diplomas in the Faculties of Science and Applied Science

SCHEMES OF STUDY FOR THE DEGREE OF BACHELOR OF SCIENCE

1. *Schemes of Study in One Main Subject in the Faculty of Science*

Candidates may be admitted directly to honours degree schemes in the following main subjects; direct entry to ordinary degree schemes is also available where indicated:

Bacteriology
Biochemistry
Biophysics
Botany
Chemistry
Computational Science
Earth Sciences
Geography
Geology
Mathematics (also ordinary degree)
Pharmacology
Physics
Physiology
Psychology (also ordinary degree)
Zoology

Anatomy: There is a four-year scheme of study in anatomy, but no further admissions are being made to it for the time being. For details see *Calendar 1970-71*.
One-year and two-year schemes of study leading to the degree of B.Sc. in anatomy are available for medical and dental students.

2. *Schemes of Study in One Main Subject in the Faculty of Applied Science*

Candidates may be admitted directly to ordinary or honours degree schemes for all these subjects, unless otherwise indicated:

Agricultural Botany (honours only)
Agricultural Chemistry (honours only)
Agricultural Sciences (honours only)
Agricultural Zoology (honours only)
Applied Mineral Sciences
Architectural Engineering (honours only)
Ceramics (honours only)
Chemical Engineering
Civil Engineering
Colour Chemistry (honours only)
Control Engineering
Dyeing (ordinary degree only)
Electrical and Electronic Engineering
Food Science
Fuel and Combustion Engineering
Fuel and Combustion Science
Mechanical Engineering
Metallurgy
Mining
Textile Chemistry (honours only)
Textile Engineering (honours only)
Textile Industries
Textile Physics (honours only)

Agriculture: There are schemes of study in Agriculture, but no further admissions are being made to them.

Leather Science: There are schemes of study in Leather Science, but no further admissions are being made to them.

3. *Schemes of Study in Two Main Subjects (combined) in the Faculties of Science and Applied Science*

Candidates may be admitted directly to honours degree schemes in the following combinations:

Bacteriology-Biochemistry
Bacteriology-Botany
Bacteriology-Chemistry
Bacteriology-Food Science
Bacteriology-Genetics
Bacteriology-Zoology
Biochemistry-Botany
Biochemistry-Food Science
Biochemistry-Genetics
Biochemistry-Physiology
Biochemistry-Zoology
Botany-Chemistry
Botany-Genetics
Botany-Zoology

Chemistry-Applied Mineral Sciences
Chemistry-Earth Sciences
Chemistry-Economics
Chemistry-Fuel Science
Chemistry-History of Science and/or Philosophy
Chemistry-Mathematics
Chemistry-Physics
Chemistry-Physiology
Computational Science-Earth Sciences
Computational Science-Mathematics
Computational Science-Physics
Earth Sciences-Mathematics
Earth Sciences-Physics
Economics-Statistics
Food Science-Physiology
Genetics-Zoology
Geography-Geology
Geography-Mathematics
Mathematics-History of Science and/or Philosophy
Mathematics-Physics
Mathematics-Statistics
Mining Geology
Pharmacology-Physiology
Physics-Electronic Engineering
Physics-History of Science or Philosophy
Physics-Statistics
Physiology-Zoology
*Psychology-Zoology

SCHEMES OF STUDY FOR THE DEGREE OF MASTER OF SCIENCE

Faculty of Science

Clinical Psychology
Combustion and Explosion
Electronic Computation
Engineering Geology and Geotechnics
Geochemistry
Geophysics
Mathematics
Medical Physics
Physics
Statistics
Steroid Endocrinology

Faculty of Applied Science

Colour Chemistry
Combustion and Explosion
Construction Engineering
Engineering Geology and Geotechnics
Environmental Pollution Control
Exploitation of Materials
Fibre Science
Food Engineering
Food Science
Geophysics
Leather Science
Microwave and Communication Engineering (jointly with the University of Sheffield)
Transportation Engineering
Tribology

SCHEMES OF STUDY FOR DIPLOMAS

Faculty of Science
Postgraduate diplomas

Applied Geophysics
History and Philosophy of Science

Faculty of Applied Science
Diplomas

Agriculture (in abeyance)
Dyeing

Leather Manufacture: There is a scheme of study in Leather Manufacture, but no further admissions are being made to it.

*This course will be in abeyance from October, 1971.

Postgraduate Diplomas

Agriculture (Farm Management)*
Applied Geophysics
Ceramics
Food Science
Fuel Engineering
Fuel Science
Leather Science
Metallurgy
Mineral Dressing and Coal Preparation
Textile Industries

PRESCRIBED SCHEMES OF STUDY FOR THE DEGREE OF BACHELOR OF SCIENCE

Candidates should note that in order to qualify for admission to a scheme of study for a first degree in the University, they must satisfy both a *General Requirement* and a *Course Requirement*. For information regarding the *General Requirement* for purposes of matriculation, candidates should write to the Secretary, Joint Matriculation Board, Manchester, M15 6EU. The *Course Requirement* is set out at the beginning of each of the entries below for schemes of study in the Faculties of Science and Applied Science.

Approved schemes of study under the Ordinance and regulations for the degree of Bachelor of Science in the Faculties of Science and Applied Science are shown below as schemes of study in one main subject by alphabetical order within each Faculty, followed by schemes of study in two main subjects (combined) also by alphabetical order covering both the Faculties.

Schemes of study in the Faculty of Science and combined schemes of study are generally honours schemes which extend over four years; however, direct entry to the second year is usually possible for suitably qualified candidates who may thereby complete an honours degree in three years. Exceptions to this general rule are the scheme in Geography which extends over three years only, and the schemes in Bacteriology, Biophysics and Psychology in which exemption from the first year of the schemes is not normally possible. The ordinary degree of Bachelor of Science may be awarded after three years of residence to candidates in the Faculty of Science who successfully complete the first three years of a four-year honours scheme, or to candidates taking a combined studies scheme, who meet the ordinary degree requirements stipulated for the scheme. Direct entry to ordinary degree schemes in the Faculty of Science is offered only where specifically stated.

Most departments in the Faculty of Applied Science offer candidates the possibility of taking either four-year or three-year schemes for the degree with honours depending on qualifications at entry. In addition, departments generally offer direct entry to three-year ordinary degree schemes.

Details of courses specified in the schemes of study are given under the corresponding subject headings in the sections on COURSES IN THE FACULTIES OF SCIENCE AND APPLIED SCIENCE, pages G120-76, and COURSES GIVEN BY OTHER FACULTIES FOR SCHEMES IN SCIENCE AND APPLIED SCIENCE, pages G177-85.

Enquiries should be addressed to the head of the appropriate department in the case of schemes in one main subject and to the Director of Combined Studies in the case of schemes in two main subjects.

*No students will be accepted for this scheme from October 1972.

Faculty of Science

Anatomy

Medical students who have completed the second M.B., Ch.B. examination may be permitted to intercalate a year to follow a one-year scheme of study for the Bachelor of Science in anatomy. Dental students who have completed the second B.Ch.D. examination may be permitted to follow a two-year scheme of study for the degree of Bachelor of Science in anatomy.

TWO-YEAR SCHEME OF STUDY FOR THE DEGREE WITH HONOURS

First Year
Anatomy 3AT
A course in another subject approved by the head of the Department of Anatomy.

Second Year
Anatomy 4AT

ONE-YEAR SCHEME OF STUDY FOR THE DEGREE WITH HONOURS
Anatomy 4AT

Bacteriology

A scheme of study normally extending over a period of four years and leading to the degree of Bachelor of Science with honours in one main subject in Bacteriology.

COURSE REQUIREMENT

For admission to the scheme of study passes in two approved subjects at advanced level are required.
One of these passes must be in chemistry.
The *second* should normally be in physics.
In addition candidates should have a good knowledge of mathematics and a modern foreign language. It is desirable that candidates should have passed at advanced level in chemistry and physics at a high standard so that they may be exempted from first-year courses in chemistry and biophysics and be permitted to follow a more advanced course in chemistry in the first year.

FOUR-YEAR SCHEME OF STUDY FOR THE DEGREE WITH HONOURS

First Year
Biophysics 1A
Chemistry 1A *or* 1B
Zoology 1A
Botany 1A *or* 1B

Second Year
Bacteriology 2A
Chemistry 2D *or* another approved subject
Biochemistry 2A

Third Year
Bacteriology 3A
Chemistry 3E *or* another approved subject
Biochemistry 3A *or* another approved subject.

Fourth Year
Bacteriology 4BY and approved parts of Bacteriology 4A
A knowledge of modern languages is advantageous.

Ordinary Degree
The ordinary degree of Bachelor of Science in Bacteriology may be awarded on successful completion of the first three years of the four-year scheme for the degree with honours.

Biochemistry

The scheme of study leading to the degree of Bachelor of Science with honours in one main subject in Biochemistry extends over four years, but suitably qualified candidates will be exempted from the first year and be able to complete the scheme in three years.

COURSE REQUIREMENT

Four-year scheme for the degree with honours: for admission to the scheme of study passes in three approved subjects at advanced level are required.
For exemption from the first year of the four-year honours scheme: passes in three subjects at advanced level are normally required, of which *one* must be in chemistry, and the *second* and *third* should be in two of the following: biology, botany, mathematics (pure and applied) or mathematics for science, physics or zoology.
The passes in chemistry and in either the second or third subject must be at a high standard. In addition, candidates not having passes in mathematics or physics at advanced level must have passes in these subjects at ordinary level. A knowledge of elementary calculus is particularly desirable.

FOUR-YEAR SCHEME OF STUDY FOR THE DEGREE WITH HONOURS

First Year
Chemistry 1A *or* 1B
Two first-year subjects to be chosen from zoology, botany, biology (if neither zoology nor botany is chosen), physics, biophysics and mathematics.
First-year courses in other approved subjects may be substituted for any of the above in which the student has already attained a satisfactory standard.

Second Year
Biochemistry 2BI
Chemistry 3E
Physiology 2A

Third Year
Biochemistry 3BI
Chemistry 2D

Fourth Year
Biochemistry 4BI
Tutorials and essays are arranged regularly throughout the third and fourth years and in the fourth year each student undertakes a short individual practical investigation.

Ordinary Degree

The ordinary degree of Bachelor of Science in Biochemistry may be awarded on successful completion of the first three years of the four-year scheme for the degree with honours.

BIOCHEMISTRY IN RELATION TO MEDICINE

Scheme of Study

Entry into the scheme of study leading to the degree of Bachelor of Science with honours in biochemistry in relation to medicine is open to students who have successfully completed the second M.B., Ch.B. examination and who have achieved a good performance in biochemistry in that examination. Selected students may intercalate a year in order to follow a one-year course of study in biochemistry—Biochemistry 4MS.

Biophysics

Three alternative schemes of study extending over a period of four years and leading to the degree of Bachelor of Science with honours in one main subject in Biophysics.

Scheme I is the standard scheme. Schemes II and III are provided, for the time being only, for those candidates who present biology instead of mathematics (Scheme II) or chemistry (Scheme III).

SCHEME I—COURSE REQUIREMENT

For admission to the scheme passes in three approved subjects at advanced level are required.
One of these passes should be in physics.
The *second* should be in chemistry.
The *third* should be in mathematics.
A knowledge of modern languages and of biology is advantageous.

First Year
Physics 2A
Chemistry 2D
Mathematics 2PX

Second Year
Physics 3A
Mathematics 3PX
Biology 1A

Third Year
Biochemistry 2A
Chemistry 3E
Biophysics 3BP

Fourth Year
Biophysics 4BP
(With the permission of the departments concerned, Chemistry 3E in the third year may exceptionally be replaced by Botany 2A *or* Zoology 2A.)

SCHEME II—COURSE REQUIREMENT

For admission to the scheme passes in three approved subjects at advanced level are required.
One of these passes should be in physics.
The *second* should be in chemistry.
The *third* should be in biology.
A knowledge of mathematics beyond ordinary level and of modern languages is advantageous.

First Year
Chemistry 2D
Biochemistry 2A
Mathematics 1A

Second Year
Chemistry 3E
Physics 2A
Mathematics 2BP

Third Year
Physics 3A
Mathematics 3BP
Biophysics 3BP

Fourth Year
Biophysics 4BP

SCHEME III—COURSE REQUIREMENT

For admission to the scheme passes in three approved subjects at advanced level are required.
One of these should be in physics.
The *second* should be in mathematics.
The *third* should be in biology.
A knowledge of chemistry beyond ordinary level and of modern languages is advantageous.

First Year
Chemistry 1A
Physics 2A
Mathematics 2BP

Second Year
Chemistry 1D
Physics 3A
Mathematics 3BP

Third Year
Biochemistry 2A
Chemistry 3E
Biophysics 3BP

Fourth Year
Biophysics 4BP
(With the permission of the departments concerned, Mathematics 3BP in the second year or Chemistry 3E in the third year may exceptionally be replaced by Botany 2A *or* Zoology 2A.)

Ordinary Degree

The ordinary degree of Bachelor of Science in Biophysics may be awarded on successful completion of the first three years of the four-year scheme for the degree with honours.

Botany

The scheme of study leading to the degree of Bachelor of Science with honours in one main subject in Botany may extend over four years, but suitably qualified candidates will be exempted from the first year and be able to complete the scheme of study in three years.

COURSE REQUIREMENT

Four-year scheme for the degree with honours: or admission to the scheme of study passes in two approved subjects at advanced level are required. These passes may be in any approved subject, but a good knowledge of the physical sciences and/or mathematics is desirable.

For exemption from the first year of the four-year honours scheme passes at a high standard in three approved subjects at advanced level are normally required.

One pass should be in chemistry.
The *second* should be in biology.
The *third* should be in physics or mathematics or geography or another approved subject.
Alternatively the *second* and *third* may be in botany and zoology.

FOUR-YEAR SCHEME OF STUDY FOR THE DEGREE WITH HONOURS

First Year

Botany 1A
Chemistry 1A *or* 1B
Physics 1A, Biophysics 1A *or* Mathematics 1A *or* a first-year course in one other approved subject.

Second Year

Botany 2A
together with *two* of the following, chosen in consultation with the head of the department:

Biochemistry 2A
Bacteriology 2A
Chemistry 2B
Zoology 2A
One approved first- *or* second-year course.

Third Year

Botany 3BT (Botany 3A and Botany 3B)
Agricultural chemistry 3F(1) *or* Genetics 3A *or* another second- or third-year course approved by the head of the Department.

Fourth Year
Botany 4BT.

Field Work
The courses in botany will include field work during term and vacation; one field course will be held abroad.

Ordinary Degree
The ordinary degree of Bachelor of Science in Botany may be awarded on successful completion of the first three years of the four-year scheme for the degree with honours.

Chemistry

The scheme of study leading to the degree of Bachelor of Science with honours in one main subject in Chemistry may extend over four years but suitably qualified candidates will be exempted from the first year and be able to complete the scheme of study in three years.

COURSE REQUIREMENT

Four-year scheme for the degree with honours: for admission to the scheme of study, passes in three approved subjects at advanced level are required.
One of these passes must be in chemistry.
The *second* and the *third* should preferably be in physics and mathematics.
Three-year scheme: for exemption from the first year of the four-year scheme passes at a high standard in chemistry and in either physics or mathematics (which if taken as one subject must include both pure and applied mathematics) are normally required.

FOUR-YEAR SCHEME OF STUDY FOR THE DEGREE WITH HONOURS

First Year
Chemistry 1CH *or* 2A
Mathematics 1A *or* 1Z
Physics 1A

Second Year
Chemistry 2CH; students who have taken Chemistry 2A in the first year may take Chemistry 3A instead of Chemistry 2CH.
Students will be required to take an additional subject in either the first or second year of the scheme of study chosen from the following:

History of science 2CH
Mathematics 2CH
Statistics 2A
Physics 2B
Biochemistry 2A
Agricultural chemistry 2A and 2B (lectures only).

Third Year
Chemistry 3CH

Fourth Year
Chemistry 4CH
In the final year of study for the honours degree, students will specialize in two of the three branches of chemistry.

Students may elect to take in the first, second, or third years of the schemes of study an optional additional course chosen from those listed above, or another approved by the chairman of the School.
Students admitted to the first year may be required to attend one or more additional courses, according to whether they have already reached a satisfactory standard in chemistry, mathematics and physics; these additional courses may be chosen from the list for the second year, or may be other courses approved by the chairman of the School.
Students admitted directly to the second year who have not already reached a satisfactory standard in both mathematics and physics will include Mathematics 1A *or* 1Z, or Physics 1A, as the case may be, in the second year of the scheme of study.

Ordinary Degree

The ordinary degree of Bachelor of Science in Chemistry may be awarded on successful completion of the first three years of the four-year scheme for the degree with honours.

Computational Science

The scheme of study leading to the degree of Bachelor of Science in one main subject in Computational Science extends over four years, but suitably qualified candidates may be exempted from the first year and be able to complete the scheme of study in three years.

COURSE REQUIREMENT

For admission to the scheme of study passes in two approved subjects at advanced level in the General Certificate of Education are required but passes in three subjects are preferred. The subjects must normally include mathematics, examined either as one subject or as two subjects and including pure and applied mathematics. There are no special requirements restricting the choice of supporting subjects at advanced level. Nevertheless, some knowledge of physics or computing, while not a requirement, would be an advantage.
Exemption from the first year of the scheme of study will normally require passes in three approved subjects at advanced level.

FOUR-YEAR SCHEME OF STUDY LEADING TO THE DEGREE WITH HONOURS IN COMPUTATIONAL SCIENCE

First Year
Mathematics 1A
First-year courses in two other approved subjects.

Second Year
Computational science 2A
Mathematics 2A
A second-year course in one other approved subject.

Third Year
Computational science 3CT
A second- or third-year course in one other approved subject, normally within the School of Mathematics.

Fourth Year
Computational science 4CT

Ordinary Degree
The ordinary degree of Bachelor of Science in Computational Science may be awarded on successful completion of the first three years of the four-year scheme for the degree with honours.

Earth Sciences

The scheme of study leading to the degree of Bachelor of Science with honours in one main subject in Earth Sciences may extend over four years, but suitably qualified candidates will be exempted from the first year and should be able to complete the scheme of study in three years.

COURSE REQUIREMENT

Four-year scheme for the degree with honours: for admission to the scheme of study passes in three approved subjects at advanced level are required. These passes may be in any approved subject at advanced level but candidates must have passes in chemistry, mathematics and physics at least at ordinary level.

For exemption from the first year of the four-year honours scheme passes at a high standard in three approved subjects at advanced level are required.
One of these passes should be in chemistry.
The *second* should be in pure and applied mathematics or in mathematics for science.
The *third* should be in physics.

FOUR-YEAR SCHEME OF STUDY FOR THE DEGREE WITH HONOURS

First Year
Mathematics 1A
Physics 1A
Chemistry 1A *or* 1B
First-year courses in other approved subjects may be substituted for any of the above subjects in which the student has already reached a satisfactory standard.

Second Year
Earth sciences 2TS
Mathematics 2TS

Third Year
Earth sciences 3TS

Fourth Year
Earth sciences 4TS
A scientific investigation of a specific area including appropriate mapping.
The courses in earth sciences will include field work during terms and vacations.

Ordinary Degree
The ordinary degree of Bachelor of Science in Earth Sciences may be awarded on successful completion of the first three years of the four-year scheme for the degree with honours.

Geography

The scheme of study leading to the degree of Bachelor of Science with honours in one main subject in Geography may extend over four years, but suitably qualified candidates may be exempted from the first year and be able to complete the scheme of study in three years. *

COURSE REQUIREMENT

Four-year scheme: for admission to the scheme of study passes in at least *two* (*three* if geography be included) approved subjects at advanced level are required. A good knowledge of the natural sciences is desirable.
For exemption from the first year of the four-year scheme: passes at a high standard in *three* approved subjects at advanced level are required.
One pass must be in geography.
The *second* and *third* must normally be from biology, chemistry, mathematics, physics.
At least a pass at ordinary level in mathematics is required. A modern foreign language to ordinary level is desirable.

FOUR-YEAR SCHEME OF STUDY FOR THE DEGREE WITH HONOURS

First Year
Three first-year courses, normally chosen from botany, chemistry, mathematics, physics and zoology.

* For information regarding the scheme of study leading to the degree of Bachelor of Arts in Geography, see prospectus *Faculty of Economic and Social Studies*, pages E26-28.

Second Year
Geography 2GG
Economics 2C
Geology 1C
A first- or second-year course in a science subject may be substituted for geology and/or economics with the approval of the head of the Department.

Third Year
Geography 3GG
A course in one other science subject, normally a second-year course.

Fourth Year
Geography 4GG
Field work in terms and vacation is an integral part of the degree scheme. In addition to local projects, all students must attend field training courses in the second, third and fourth years; one course will normally be abroad.

Ordinary Degree
The ordinary degree of Bachelor of Science in Geography may be awarded on successful completion of the first three years of the four-year scheme for the degree with honours.

Geology

The scheme of study leading to the degree of Bachelor of Science with honours in one main subject in Geology may extend over four years, but suitably qualified candidates will be exempt from the first year and should be able to complete the scheme of study in three years.

COURSE REQUIREMENT

Four-year scheme for the degree with honours: for admission to the scheme of study passes in three approved subjects at advanced level are required. These passes may be in any approved subject at advanced level. Candidates should have passes in mathematics and in physics or chemistry or physics with chemistry and one other science subject at ordinary level.
For exemption from the first year of the four-year honours scheme passes at a high standard in three approved subjects at advanced level are required.

One of these passes should be in geology.
The *second* should be in mathematics, physics or chemistry.
The *third* may be in geography, botany, zoology or biology.

FOUR-YEAR SCHEME OF STUDY FOR THE DEGREE WITH HONOURS

First Year
Geology 1C
A first-year course in two of the following approved subjects:
Physics 1A, Chemistry 1A, Mathematics 1A *or* 1Z, Botany 1A, Zoology 1A
Courses in other approved subjects may be substituted for any of the above subjects in which the student has already reached a satisfactory standard.

Second Year
Geology 2TS
One other course, normally the second year of one of the courses taken in the first year.

Third Year
Geology 3TS

Fourth Year
Geology 4TS
A scientific investigation of a specific area including appropriate field work. The courses in geology will include field work during term and vacations.

Ordinary degree

The ordinary degree of Bachelor of Science in Geology may be awarded on successful completion of the first three years of the four-year scheme for the degree with honours.

Mathematics

The schemes of study leading to the degree of Bachelor of Science in one main subject in Mathematics extend over four years, but suitably qualified candidates may be exempted from the first year and be able to complete a scheme of study in three years.

COURSE REQUIREMENT

For admission to the schemes of study candidates must produce evidence of ability in mathematics.
Candidates will normally have taken mathematics, including both pure and applied mathematics, either as one subject (Mathematics) or as two subjects (Mathematics and Further Mathematics, Mathematics and Higher Mathematics, or Pure Mathematics and Applied Mathematics) at the advanced level in the General Certificate of Education examination. Candidates who offer Pure Mathematics and Physics at advanced level will be considered.
There are no special requirements restricting the choice of supporting subjects at advanced level. Nevertheless, some knowledge of physics, at least up to the ordinary level of the General Certificate of Education examination, is desirable.

SCHEME OF STUDY FOR THE DEGREE WITH HONOURS

1 (a) The prescribed courses in mathematics for the four-year scheme of study leading to the degree of Bachelor of Science with honours are Mathematics 1MM, 2MM and 3MM, taken in successive years, and followed by either Mathematics 4MM(A) or 4MM(B).
In the first year of the four-year scheme of study, in addition to the prescribed courses in mathematics, a candidate must reach a satisfactory standard in a one-year course in an ancillary subject approved by the chairman of the School of Mathematics. The ancillary subject will be selected from a number of one-year courses in the Faculties of Arts, Economic and Social Studies, Science and Applied Science.

(b) The prescribed courses for candidates who have been exempted from the first year of the four-year scheme are Mathematics 2MM and 3MM, taken in successive years, and followed by either Mathematics 4MM(A) or 4MM(B).

SCHEME OF STUDY FOR THE ORDINARY DEGREE

2 (a) The prescribed courses in mathematics for the four-year scheme of study leading to the ordinary degree of Bachelor of Science are Mathematics 1MM, 2P, 3P and 4P, taken in successive years.

In the first year of the four-year scheme of study, in addition to the prescribed courses in mathematics, a candidate must reach a satisfactory standard in a one-year course in an ancillary subject approved by the chairman of the School of Mathematics. The ancillary subject will be selected from a number of one-year courses in the Faculties of Arts, Economic and Social Studies, Science and Applied Science.

(b) The prescribed courses for candidates who have been exempted from the first year of the four-year scheme are Mathematics 2P, 3P and 4P, taken in successive years.

Arrangements for Transfer between Schemes of Study

3 (a) Candidates for the degree of Bachelor of Science with honours who do not reach a standard in the Mathematics 2MM examination sufficient for them to proceed to Mathematics 3MM may, with the approval of the Board of the Faculties of Science and Applied Science, given on the recommendation of the chairman of the School of Mathematics, be awarded a pass in the Mathematics 2P examination and may then be permitted to transfer to the scheme of study leading to the ordinary degree of Bachelor of Science.

(b) Candidates for the ordinary degree of Bachelor of Science who achieve a sufficiently high standard in the Mathematics 2P examination may, with the approval of the Board of the Faculties of Science and Applied Science, given on the recommendation of the chairman of the School of Mathematics, be awarded a pass in the Mathematics 2MM examination and may then be permitted to transfer to the scheme of study leading to the degree of Bachelor of Science with honours.

(c) Candidates who complete a scheme of study leading to the ordinary degree of Bachelor of Science may, with the approval of the Board of the Faculties of Science and Applied Science, given on the recommendation of the chairman of the School of Mathematics, be permitted to transfer to the final year of the scheme of study leading to the degree of Bachelor of Science with honours.

(d) Candidates who complete the courses prescribed for the first three years of the four-year scheme of study leading to the degree of Bachelor of Science with honours and who pass the necessary examinations will be eligible for the award of the ordinary degree of Bachelor of Science except that candidates who complete these requirements after two years of residence will be required to follow an approved course of study for a further year and to pass the necessary examinations before graduating.

Pharmacology

There are two schemes of study leading to the degree of Bachelor of Science with honours in one main subject in Pharmacology. Under Scheme A candidates are admitted to a scheme of study which extends over four years, but suitably qualified candidates will be exempted from the first year and be able to complete the scheme in three years. Under Scheme B, a scheme of study which extends over one year may be followed by medical students, who have completed the third M.B., Ch.B. examination and who are permitted to intercalate a year into their medical studies, by graduates in Medicine and Surgery of this University and by students who have obtained the degree of Bachelor of Science with honours in Pharmacy of this University.

SCHEME A

COURSE REQUIREMENT

Four-year scheme for the degree with honours: for admission to the scheme of study passes in two approved subjects at advanced level are required. These must include *one* of the following subjects: chemistry, physics, zoology (or biology) and mathematics.

In addition, candidates not having passes at advanced level in chemistry, physics and mathematics must normally have passes at ordinary level in these subjects.

For exemption from the first year of the four-year honours scheme: passes at an approved standard in three approved subjects at advanced level are normally required.
One of these should be in chemistry.

The *second* and *third* should be in two of the following: physics, zoology (or biology) and mathematics.

In addition, candidates not having passes at advanced level in physics, zoology (or biology) and mathematics must normally have passes at ordinary level in these subjects.

FOUR-YEAR SCHEME OF STUDY FOR THE DEGREE WITH HONOURS

First Year

Chemistry 1A *or* 1B *or* another approved subject
Physics 1A *or* Biophysics 1A
Zoology 1A *or* Mathematics 1Z

Second Year

Pharmacology 2A
Physiology 2A
Biochemistry 2A

Third Year

Pharmacology 3FM
Physiology 3A

Fourth Year

Pharmacology 4FM

Tutorials and essays are arranged regularly during the third and fourth years, and in the fourth year each student undertakes individual project work.

SCHEME B

Pharmacology 4MS

A reading knowledge of modern languages is desirable for both schemes.

Ordinary Degree

The ordinary degree of Bachelor of Science in Pharmacology may be awarded on successful completion of the first three years of the four-year scheme (Scheme A) for the degree with honours.

Physics

The scheme of study leading to the degree of Bachelor of Science with honours in one main subject in Physics may extend over four years, but suitably qualified candidates will be exempted from the first year and be able to complete the scheme of study in three years. The scheme of study leading to the ordinary degree of Bachelor of Science in one main subject in Physics normally extends over three years.

COURSE REQUIREMENT

For admission to the schemes of study passes in two approved subjects at advanced level are required.
One of these passes will normally be in physics.
The *second* will normally be in pure and applied mathematics taken either as one or as two subjects.
Candidates possessing other subject combinations will be considered.
For exemption from the first year of the four-year honours scheme passes at a high standard at advanced level are normally required in physics and in mathematics, which, if examined as one subject, should preferably include pure and applied mathematics.

FOUR-YEAR SCHEME OF STUDY FOR THE DEGREE WITH HONOURS

First Year

Entrants to the four-year scheme of study will take Physics 1PX. Courses on other subjects, appropriate to their background and interests, will be arranged individually. These will normally include courses in mathematics and in one other subject.

Second Year

Physics 2PX *or* 2PX(B)
Mathematics 2PX
An introductory or one-year course in Russian for science students, philosophy, geology or an approved alternative subject.

Third Year

Physics 3PX
Mathematics 3PX

Fourth Year

Physics 4PX

Candidates in the third or fourth year of the scheme may be advised to take appropriate additional courses or lectures.

THREE-YEAR SCHEME OF STUDY LEADING TO THE ORDINARY DEGREE

First Year

Entrants to the ordinary degree scheme of study will take Physics 1P. Courses on other subjects appropriate to their background and interests will be arranged individually. These will normally include courses in mathematics and in one other subject.

Second Year

Physics 2P
Mathematics 2PX

An introductory or one-year course in Russian for science students, philosophy, geology or an approved alternative subject.

Third Year

Physics 3P
Mathematics 3PX

The ordinary degree of Bachelor of Science in Physics may also be awarded on successful completion of the first three years of the four-year scheme for the degree with honours.

Arrangements for transfer between schemes of study

(a) Candidates for the degree of Bachelor of Science with honours who do not reach a standard in the Physics 2PX(B) examination sufficient for them to proceed to Physics 3PX may, with the approval of the Board of the Faculties of Science and Applied Science, given on the recommendation of the chairman of the Department of Physics, be awarded a pass in the Physics 2P examination and may then be permitted to transfer to the scheme of study leading to the ordinary degree of Bachelor of Science.

(b) Candidates for the ordinary degree of Bachelor of Science who achieve a sufficiently high standard in the Physics 2P examination may, with the approval of the Board of the Faculties of Science and Applied Science, given on the recommendation of the chairman of the Department of Physics, be awarded a pass in the Physics 2PX(B) examination and may then be permitted to transfer to the scheme of study leading to the degree of Bachelor of Science with honours.

Physiology

There are two methods of entry to schemes of study leading to the degree of Bachelor of Science with honours in one main subject in Physiology. Under Scheme A candidates are admitted to a scheme of study which extends over four years, although suitably qualified candidates will be exempted from the first year and be able to complete the scheme in three years. Under Scheme B, medical students who have completed the second M.B., Ch.B. examination may be permitted to intercalate a year to follow a one-year scheme of study for the degree of Bachelor of Science with honours in Physiology, based on the course work of Physiology 4FI.

SCHEME A

COURSE REQUIREMENT

Four-year scheme for the degree with honours: for admission to the scheme of study passes in two approved subjects at advanced level are required.

One of these passes should preferably be in chemistry.
The *second* should preferably be in physics.
In addition, some knowledge of mathematics would be an advantage (a knowledge of elementary calculus is particularly useful). Candidates without these qualifications may be considered.

For exemption from the first year of the four-year honours scheme passes at a high standard in three approved subjects at advanced level are normally required.
One of these passes should be in chemistry.
The *second* should be in physics.
The *third* may be in zoology, biology or mathematics.

FOUR-YEAR SCHEME OF STUDY FOR THE DEGREE WITH HONOURS

First Year
Physics 1A *or* Biophysics 1A
Chemistry 1A *or* 1B
Zoology 1A *or* Biology 1A *or* Mathematics 1A.

Second Year
Physiology 2FI
Biochemistry 2A
Chemistry 2D *or* another approved second-year course
Students may be required to attend Anatomy 2Z (Histology).

Third Year
Physiology 3FI
Biochemistry 3A *or* second-year *or* third-year course in physics, zoology *or* another approved course.

Fourth Year
Physiology 4FI

Ordinary Degree
The ordinary degree of Bachelor of Science in Physiology may be awarded on successful completion of the first three years of the four-year scheme (Scheme A) for the degree with honours.

Psychology

There are two schemes of study in Psychology to which candidates may be admitted, one extending over four years and leading to the degree of Bachelor of Science with honours in one main subject in Psychology, and the other extending over three years and leading to the ordinary degree of Bachelor of Science in Psychology.

COURSE REQUIREMENT

For admission to both the four-year honours scheme and the three-year ordinary degree scheme passes in at least two subjects at advanced level are required, which must include two of the following: pure and applied mathematics (or mathematics for science), physics, chemistry, biology (except where botany and/or zoology are offered), botany and zoology.
Candidates must have passed mathematics at ordinary level.

FOUR-YEAR SCHEME OF STUDY FOR THE DEGREE WITH HONOURS

First Year
Psychology 1PS
together with *two* of the following, chosen in consultation with the head of the department:
- Chemistry 1A *or* 1B
- Mathematics 1A
- Engineering 1PS
- Zoology 1A
- General economics 1
- Introduction to sociology 1
- Russian for science students 1A
- Another approved subject

Second Year
Psychology 2PS
Anatomy 2PS (neuroanatomy)

Third Year
Psychology 3PS

Fourth Year
Psychology 4PS
Students are normally required to attend for a fortnight at an outside institution of research or professional application some time during their scheme of study.

THREE-YEAR SCHEME FOR THE ORDINARY DEGREE

First and Second Years
As for the first two years of the scheme for the degree with honours.

Third Year
Psychology 3P
A course in another subject approved by the Board of the Faculties of Science and Applied Science.

The ordinary degree of Bachelor of Science may also be awarded on successful completion of the first three years of the scheme for the degree with honours. Candidates for either the honours or ordinary degree schemes will not be allowed to proceed to any year of either scheme unless their performance on the preceding year's work is satisfactory. Candidates who fail to reach a satisfactory standard in the examinations at the end of the second or third years of the scheme for the degree with honours may be required to transfer to the ordinary degree scheme.

Zoology

The scheme of study leading to the degree of Bachelor of Science with honours in one main subject in Zoology may extend over four years, but suitably qualified candidates will be exempted from the first year and be able to complete the scheme of study in three years.

COURSE REQUIREMENT

Four-year scheme for the degree with honours: for admission to a four-year scheme of study passes in two subjects at advanced level are required. These passes may be in any approved subjects either in Arts or in Science.
For exemption from the first year of the four-year scheme passes at a high standard in three approved subjects at advanced level are normally required.
One of these should be in chemistry.
The *second* should be in zoology or biology.
The *third* should be in mathematics, physics, botany, geology, or, exceptionally, in some other approved subject.

FOUR-YEAR SCHEME OF STUDY FOR THE DEGREE WITH HONOURS

First Year
Zoology 1A
Chemistry 1A *or* 1B
A first-year course in one other approved subject.

Second Year
Zoology 2A
Biochemistry 2A *or* in suitable cases another second-year course approved by the head of department.
A course in one other approved subject.

Third Year
Zoology 3ZO (Zoology 3A and Zoology 3B)
A course in one other subject, which will usually be a third-year course in a subject taken in the second year but may in suitable cases be another second- or third-year course approved by the head of department.

Fourth Year
Zoology 4ZO—full-time study of advanced aspects of the subject together with such project work as may be prescribed.

Field Work: Whole-day and half-day class excursions are arranged from time to time during term. In addition, students are required to attend three field courses (two in marine zoology and one in terrestrial ecology) which may be arranged either during term or in vacations. One of these courses will normally be held at the Department's Wellcome Marine Laboratory at Robin Hood's Bay and one may be held abroad.

Ordinary Degree
The ordinary degree of Bachelor of Science in Zoology may be awarded on successful completion of the first three years of the four-year scheme for the degree with honours.

Faculty of Applied Science

Agricultural Sciences

Agricultural Botany, Agricultural Chemistry, Agricultural Science, Agricultural Zoology

There are four schemes of study in the agricultural sciences, each of which may extend over four years, but suitably qualified candidates will be exempted from the first year and thus be able to complete a scheme in three years. One scheme leads to the degree of Bachelor of Science with honours in Agricultural Botany, a second to the degree of Bachelor of Science with honours in Agricultural Chemistry, a third to the degree of Bachelor of Science with honours in Agricultural Science and a fourth to the degree of Bachelor of Science with honours in Agricultural Zoology.

COURSE REQUIREMENT

For admission to the schemes of study, passes in two approved subjects at advanced level are required.

One of these will normally be in chemistry and the other in biology or botany or physics or zoology.

For exemption from the first year of a scheme of study, passes in three approved subjects, two of which must be at a sufficiently high standard, are normally required.

One of those at this standard should be in chemistry.

For the scheme of study in agricultural botany, the *second* should be in botany or biology.

For the scheme of study in agricultural chemistry, the *second* should be in physics or mathematics or botany or biology or zoology, but all candidates must have at least a pass at advanced level in physics or mathematics; at least a pass at ordinary level in a biological subject would be an advantage.

For the scheme of study in agricultural science, the *second* should be in biology or botany or mathematics or physics or zoology, but all candidates must have at least a pass at advanced level in a biological subject.

For the scheme of study in agricultural zoology, the *second* should be in zoology or biology.

FOUR-YEAR SCHEME OF STUDY LEADING TO THE DEGREE OF BACHELOR OF SCIENCE WITH HONOURS IN AGRICULTURAL BOTANY

First Year
Chemistry 1A *or* 1B
Botany 1A *or* 1B
and one of the following courses:
Mathematics 1A *or* 1Z
Physics 1A
Zoology 1A
Geology 1C

Second Year
Botany 2A
Biochemistry 2A
Agricultural biology 2F

Third Year
Botany 3A
Agricultural botany 3F
Agricultural chemistry 3F(1)

Fourth Year
Agricultural botany 4F
Students are expected to spend at least part of one long vacation working at an approved research institute and in the third and fourth years to attend organised visits to research and other institutions.

FOUR-YEAR SCHEME OF STUDY LEADING TO THE DEGREE OF BACHELOR OF SCIENCE WITH HONOURS IN AGRICULTURAL CHEMISTRY

First Year
Chemistry 1A *or* 1B
and two of the following courses:
Botany 1A *or* 1B
Mathematics 1A *or* 1Z
Physics 1A
Zoology 1A
Geology 1C

Second Year
Chemistry 2D
Biochemistry 2A
Agricultural biology 2F

Third Year
Chemistry 3E
Chemistry 4B
Agricultural chemistry 3F(1)
Agricultural chemistry 3F(2)

Fourth Year
Agricultural chemistry 4F
Students are expected to spend at least part of one long vacation working at an approved research institute or laboratory and in the third and fourth years to attend organised visits to research and other institutions.

FOUR-YEAR SCHEME OF STUDY LEADING TO THE DEGREE OF BACHELOR OF SCIENCE WITH HONOURS IN AGRICULTURAL SCIENCE

First Year
Chemistry 1A *or* 1B
and two of the following courses:
Botany 1A *or* 1B
Mathematics 1A *or* 1Z
Physics 1A
Zoology 1A
Geology 1C

Second Year
Biochemistry 2A
Agricultural biology 2F
and one of the following courses:
Botany 2A* or Botany 3A*
Chemistry 2D*
Zoology 2A*

Third Year
Agricultural science 3F
and (for students who have successfully completed Botany 2A or Chemistry 2A)
Agricultural botany 3F
Agricultural chemistry 3F(1)
or (for students who have successfully completed Chemistry 2A or Zoology 2A)
Agricultural chemistry 3F(2)
Agricultural zoology 3F(1)

Fourth Year
Either
Scheme A (Animal science)—Agricultural science 4F(A)
or
Scheme B (Plant science)—Agricultural science 4F(B)
Students are expected to spend at least part of one long vacation working at an approved research institute or similar unit and in the third and fourth years to attend organised visits to research and other institutions.

FOUR-YEAR SCHEME OF STUDY LEADING TO THE DEGREE OF BACHELOR OF SCIENCE WITH HONOURS IN AGRICULTURAL ZOOLOGY

First Year
Chemistry 1A *or* 1B
Zoology 1A
and one of the following courses:
Botany 1A *or* 1B
Mathematics 1A *or* 1Z
Physics 1A
Geology 1C

Second Year
Zoology 2A
Biochemistry 2A
Agricultural biology 2F

Third Year
Zoology 3A
Agricultural zoology 3F(1)
Agricultural zoology 3F(2)

Fourth Year
Agricultural zoology 4F
Students are expected to spend at least part of one long vacation working at an approved research institute and in the third and fourth years to attend organised visits to research and other institutions.

* For entry into Botany 2A, Chemistry 2D or Zoology 2A a pass in, or exemption from, the corresponding first-year course is required.

Agricultural Bacteriology

A student wishing to specialise in this field should apply to the Department of Bacteriology, declare his interest in agricultural bacteriology and arrange to take the optional specialisation available in this subject.

Applied Mineral Sciences*

There are three schemes of study in applied mineral sciences. Two schemes lead to the degree of Bachelor of Science with honours, one extending over four years, one extending over three years. The third scheme extends over three years and leads to the ordinary degree of Bachelor of Science.

COURSE REQUIREMENT

For admission to the four-year honours and the ordinary degree schemes of study passes n two approved subjects at advanced level are required.
One of these passes must be in chemistry or physics.
The *second* should be in mathematics.
For admission to the three-year honours scheme passes at a satisfactory standard in three approved subjects are normally required.
One of these passes should be in chemistry.
The *second* should be in mathematics pure and applied (taken as one or two subjects).
The *third* should be in physics.

FOUR-YEAR SCHEME OF STUDY LEADING TO THE DEGREE WITH HONOURS IN APPLIED MINERAL SCIENCES

First Year
Applied mineral sciences 1F
Mathematics 1A
Chemistry 1A *or* 1B
Physics 1A

Second Year
Applied mineral sciences 2F
Mathematics 2AM
Chemistry 2T
Geology 1AM
Metallurgy 1AM

Third Year
Applied mineral sciences 3F
Geology 2AM
Metallurgy 2AM

Fourth Year
Applied mineral sciences 3H

* Given by the Department of Mining and Mineral Sciences.

THREE-YEAR SCHEME OF STUDY LEADING TO THE DEGREE WITH HONOURS IN APPLIED MINERAL SCIENCES

First Year

Applied mineral sciences 1H
Mathematics 2AM
Chemistry 2T
Geology 1AM
Metallurgy 1AM

Second Year

Applied mineral sciences 2H
Geology 2AM
Metallurgy 2AM

Third Year

Applied mineral sciences 3H

THREE-YEAR SCHEME OF STUDY LEADING TO THE ORDINARY DEGREE IN APPLIED MINERAL SCIENCES

First Year

Applied mineral sciences 1F
Mathematics 1A
Chemistry 1A *or* 1B
Physics 1A

Second Year

Applied mineral sciences 2P
Engineering 1T or Chemistry 2T or Mathematics 2AM
Geology 1AM
Metallurgy 1AM

Third Year

Applied mineral sciences 3P
Geology 2AM

Vacation Work

Students are normally required to engage in approved vacation work for a period of at least six weeks during each of the two long vacations. In addition, students are required to take part in industrial tours and field work arranged by the Department.

Architectural Engineering*

There are two schemes of study leading to the degree of Bachelor of Science with honours in Architectural Engineering, one extending over four years, the second over three years. Entry to both schemes is through one of the schemes of study leading to the degree of Bachelor of Science with honours in Civil Engineering.

COURSE REQUIREMENT

For admission to the four-year scheme of study leading to the degree with honours, the course requirement is that set out for admission to the first year of the four-year scheme of

*Given by the Department of Civil Engineering

study leading to the degree of Bachelor of Science with honours in Civil Engineering (p. G42) and for admission to the three-year scheme of study for the degree with honours the course requirement is that set out for admission to the first year of the three-year scheme of study leading to the degree with honours in Civil Engineering (p. G43). A combination of advanced level passes in arts and science subjects is acceptable.

FOUR-YEAR SCHEME OF STUDY LEADING TO THE DEGREE WITH HONOURS IN ARCHITECTURAL ENGINEERING

First and second years
As for the first and second years of the four-year honours scheme in Civil Engineering.

Third Year
Architecture 2CV
Civil Engineering 2H(D)

Fourth Year
Architecture 3CV
Civil Engineering 3H(D)

THREE-YEAR SCHEME OF STUDY LEADING TO THE DEGREE WITH HONOURS IN ARCHITECTURAL ENGINEERING

First Year
As for the first year of the three-year honours scheme in Civil Engineering.

Second Year
Architecture 2CV
Civil Engineering 2H(D)
Geology 1CV

Third Year
Architecture 3CV
Civil Engineering 3H(D)

Ceramics

The scheme of study leading to the degree of Bachelor of Science with honours in Ceramics extends over four years but suitably qualified candidates will be exempted from certain first-year courses and be able to complete the scheme in three years.

COURSE REQUIREMENT

Four-year scheme: for admission to the scheme of study passes in mathematics, physics and chemistry at advanced level are normally required.

For exemption from the first year of the four-year scheme: passes at a sufficiently high level are normally required in physics, chemistry and, normally, in mathematics (which, if examined as one subject, must include both pure and applied mathematics).

FOUR-YEAR SCHEME OF STUDY LEADING TO THE DEGREE WITH HONOURS IN CERAMICS

First Year

Mathematics 1A
Physics 1A
Chemistry 1B
Ceramics 1F

Second Year
Mathematics 2CR
Physics 2T
Chemistry 2T
Ceramics 2F

Third Year
Chemistry 3CR
Metallurgy 1CR
Fuel and combustion science 1CR
Engineering 1CR
Ceramics 3F

Fourth Year
Ceramics 4F

Vacation work
Students are normally required to engage in approved vacation work for a period of at least six weeks during each of three long vacations (or two long vacations in the case of students completing the scheme in three years).

In addition, students are required to take part in industrial tours arranged by the Department for a period of up to one week during each of two Easter vacations.

Chemical Engineering

The degree of Bachelor of Science with honours in Chemical Engineering may be taken by schemes of study extending over either three or four years, the final year being identical for both schemes. The slower scheme provides for introductory courses to be taken in the first year and also allows students to read ancillary subjects, as desired, in the penultimate year. In the final stages of both schemes a choice is made between the normal option A which prepares students for careers in design, development and research, and an alternative option B in which there is more emphasis on economics and management studies. There is also a three-year scheme leading to the ordinary degree of Bachelor of Science in Chemical Engineering.

COURSE REQUIREMENT

For admission to all schemes of study passes at the advanced level in the General Certificate of Education examination in mathematics, physics and chemistry at a good standard are desirable. Highly recommended candidates with good passes in only two of these subjects can be admitted to the four-year honours degree scheme or the three-year ordinary degree scheme. Strong passes at the advanced level in all three subjects are essential to those seeking entry to the three-year honours scheme.

FOUR-YEAR SCHEME OF STUDY LEADING TO THE DEGREE WITH HONOURS IN CHEMICAL ENGINEERING (FOR THOSE WITH THE MINIMUM ENTRY QUALIFICATIONS)

First Year
Chemical engineering 1F
Mathematics 1A
Physics 1A
Chemistry 1B

Second Year
Chemical engineering 2F
Fuel science 1T
Engineering 1CE
Engineering 2CE
Mathematics 2CE
Chemistry 2T

Third Year
Chemical engineering 3F
Ceramics 2CE
Chemistry 3CE
Chemistry 3T
and *either* Mathematics 3CE (*Scheme A*) *or* Management studies 2CE (*Scheme B*)

Fourth Year
SCHEME A*
Chemical engineering 3H(A)
Metallurgy 2CE

SCHEME B†
Chemical engineering 3H(B)
Metallurgy 2CE
Management studies 3CE

Vacation Work
Students are normally required to engage in approved vacation work for a period of at least six weeks during each of two long vacations.

THREE-YEAR SCHEME OF STUDY LEADING TO THE DEGREE WITH HONOURS IN CHEMICAL ENGINEERING

First Year
Chemical engineering 1H
Engineering 1CE
Mathematics 2CE
Chemistry 2T
Chemistry 3CE

Second Year
Chemical engineering 2H
Fuel science 1T
Ceramics 2CE
Engineering 2CE
Chemistry 3T
and *either* Mathematics 3CE (*Scheme A*) *or* Management studies 2CE (*Scheme B*)

Third Year
SCHEME A*
Chemical engineering 3H(A)
Metallurgy 2CE

SCHEME B†
Chemical engineering 3H(B)
Metallurgy 2CE
Management studies 3CE

Vacation work
Students are normally required to engage in approved vacation work for a period of at least 6 weeks during each of two long vacations.

* The assessment of the final examination will include the results of the examination in Metallurgy 2CE.
† The assessment of the final examination will include the results of the examinations in Metallurgy 2CE and Management Studies 3CE.

THREE-YEAR SCHEME OF STUDY LEADING TO THE ORDINARY DEGREE IN CHEMICAL ENGINEERING (FOR THOSE WITH THE MINIMUM ENTRY QUALIFICATIONS)

First Year
Chemical engineering 1F
Mathematics 1A
Physics 1A
Chemistry 1B

Second Year
Chemical engineering 2F
Fuel science 1T
Engineering 1CE
Engineering 2CE
Mathematics 2CE
Chemistry 2T

*Third Year**
Chemical engineering 3P†
Chemistry 3CE
Ceramics 2CE
Metallurgy 2CE

Vacation work

Students are normally required to engage in approved vacation work for a period of at least six weeks during each of the long vacations.

Civil Engineering

There are three degree schemes in civil engineering: two schemes, one extending over four years, the second over three years, lead to the degree of Bachelor of Science with honours in Civil Engineering; the third extends over three years and leads to the ordinary degree of Bachelor of Science in Civil Engineering.

COURSE REQUIREMENT

For admission to all schemes of study passes in three approved subjects at advanced level are normally required.
One of these passes must be in mathematics and must include pure and applied mathematics.
Candidates with only two passes at an appropriate level may be considered.
Admission to the four-year scheme is normally reserved for candidates who have not taken mathematics at advanced level but who have good qualifications otherwise.
Candidates should note that a pass in Higher National Certificate may be regarded as equivalent to the above qualifications for the purpose of admission to the schemes of study in civil engineering.

* Up to three of the following five courses or course components may be taken and assessed in the second year: Ceramics 2CE, Chemistry 3CE and the components Fluid mechanics, Heat transfer and Process instrumentation of Chemical engineering 3P; if Chemistry 3CE is one of these only one other third-year course or course component may be taken in the second year.

† The assessment of the final examination will include the results of the examinations in Ceramics 2CE, Metallurgy 2CE and Chemistry 3CE.

FOUR-YEAR SCHEME OF STUDY LEADING TO THE DEGREE WITH HONOURS IN CIVIL ENGINEERING

First Year
Mathematics 1A
Metallurgy 1CV
Geology 1CV
and *one* of the following:
Physics 1A
Chemistry 1A
An approved alternative subject

Second Year
Civil Engineering 1H
Mathematics 2CV
Applied economics for applied scientists *or* Management studies A1 *or* an approved alternative subject

Third Year
Civil Engineering 2H
One of the following:
Mathematics 3CV
Metallurgy 2CV
Industrial relations
Management studies A2*
Architecture 2CV
An approved alternative subject

Fourth Year
SCHEME A
Civil Engineering 3H(A)

SCHEME B†
Civil Engineering 3H(B) and *one* of the following:
The State and industrial relations *and* Trade unionism and collective bargaining‡
Management studies A3*
Mathematics 4CV
Architecture 3CV§

SCHEME C
Civil Engineering 3H(C)

THREE-YEAR SCHEME OF STUDY LEADING TO THE DEGREE WITH HONOURS IN CIVIL ENGINEERING

First Year
Civil Engineering 1H
Mathematics 2CV
Metallurgy 1CV
Applied economics for applied scientists *or* Management studies A1 *or* an approved alternative subject

* Candidates wishing to proceed to Management studies A2 *must* take Management studies A1, and candidates wishing to proceed to Management studies A3 *must* take Management studies A2.
† The assessment of the final examination will include the results of the examinations in one of the following:— The State and industrial relations and Trade unionism and collective bargaining; Management studies A3; Mathematics 4CV; Architecture 3CV.
‡ Candidates for these courses must have taken Industrial relations.
§ Courses in Architecture are given within the Department of Civil Engineering. Candidates wishing to proceed to Architecture 3CV must take Architecture 2CV.

Second Year
Civil Engineering 2H
Geology 1CV
and *one* of the following:
Mathematics 3CV
Metallurgy 2CV
Industrial relations
Management studies A2*
Architecture 2CV†
An approved alternative subject

Third Year
SCHEME A
Civil Engineering 3H(A)

SCHEME B‡
Civil Engineering 3H(B)
and *one* of the following:
The State and industrial relations *and* Trade unionism and collective bargaining§
Management studies A3*
Mathematics 4CV
Architecture 3CV†
An approved alternative subject

SCHEME C
Civil Engineering 3H(C)

THREE-YEAR SCHEME OF STUDY LEADING TO THE ORDINARY DEGREE IN CIVIL ENGINEERING

First Year
Civil Engineering 1H
Mathematics 1A
Metallurgy 1CV
Applied economics for applied scientists *or* Management studies A1 *or* an approved alternative subject.

Second Year
Civil Engineering 2H
Mathematics 2CV
Geology 1CV

Third Year
Civil Engineering 3H(B)

Colour Chemistry

The scheme of study leading to the degree of Bachelor of Science with honours in Colour Chemistry extends over four years, but suitably qualified candidates will be exempted from the first year and be able to complete the scheme in three years.

* Candidates wishing to proceed to Management studies A2 *must* take Management studies A1, and candidates wishing to proceed to Management studies A3 *must* take Management studies A2.
† Courses in Architecture are given within the Department of Civil Engineering. Candidates wishing to proceed to Architecture 3CV *must* take Architecture 2CV.
‡ The assessment of the final examination will include the results of the examinations in one of the following:— The State and industrial relations and Trade unionism and collective bargaining; Management studies A3; Mathematics 4CV; Architecture 3CV.
§ Candidates for these courses must have taken Industrial relations.

COURSE REQUIREMENT

For admission to the four-year scheme of study passes in three approved subjects at advanced level are normally required.
One of these passes must be in chemistry.
The *second* and *third* should normally be in physics and mathematics.
Exemption from the first year of the four-year scheme may be granted on the basis of achievement in the advanced level examinations.

FOUR-YEAR SCHEME OF STUDY LEADING TO THE DEGREE WITH HONOURS IN COLOUR CHEMISTRY

First Year
Mathematics 1A
Physics 1A
Chemistry 1B
Colour chemistry 1F

Second Year
Chemistry 2D
Chemistry 3E
Dyeing 2F
Textile technology 1T
Colour chemistry 1F (for students in their first year of residence)

Third Year
Chemistry 4B
Dyeing 3F
Colour chemistry 3F
Textile technology 2CC
Engineering 1U *or* Management studies 1
or Chemical engineering 2CC

Fourth Year
Colour chemistry 4F
Dyeing 4F
Candidates for the degree with honours in colour chemistry will be required to translate into English a passage of German or Russian with the aid of a dictionary.

Control Engineering

There are three degree schemes in control engineering. Two schemes lead to the degree of Bachelor of Science with honours in Control Engineering, one extending over four years, the second over three years. The third scheme extending over three years leads to the ordinary degree of Bachelor of Science in Control Engineering. Entry to all three schemes of study is through one of the schemes of study leading to the degree of Bachelor of Science with honours in either Mechanical Engineering or Electrical and Electronic Engineering.

COURSE REQUIREMENT

For admission to the four-year scheme of study for the degree with honours and the three-year scheme for the ordinary degree the course requirement is that set out for admission to the first year of the four-year scheme of study leading to the degree of Bachelor of Science with honours in either Mechanical Engineering or Electrical and Electronic Engineering depending on the scheme to be taken by the student in the first year. For admission to the three-year scheme

of study for the degree with honours the course requirement is that set out for admission to the first year of the three-year scheme of study leading to the degree of Bachelor of Science with honours in either Mechanical Engineering or Electrical and Electronic Engineering depending on the scheme to be taken by the student in the first year.

FOUR-YEAR SCHEME OF STUDY LEADING TO THE DEGREE WITH HONOURS IN CONTROL ENGINEERING

First Year
Either
The first year of the four-year scheme leading to the degree of Bachelor of Science with honours in mechanical engineering
or
The first year of the four-year scheme leading to the degree of Bachelor of Science with honours in electrical and electronic engineering

Second Year
Control engineering 2F
Mathematics 2CG

Third Year
Control engineering 3F(1) and 3F(2)
Mathematics 3CG(1) and 3CG(2)

Fourth Year
Control engineering 3H

THREE-YEAR SCHEME OF STUDY LEADING TO THE DEGREE WITH HONOURS IN CONTROL ENGINEERING

First Year
Either
The first year of the three-year scheme leading to the degree of Bachelor of Science with honours in mechanical engineering

or
The first year of the three-year scheme leading to the degree of Bachelor of Science with honours in electrical and electronic engineering

Second Year
Control engineering 2H
Mathematics 3CG

Third Year
Control engineering 3H

THREE-YEAR SCHEME OF STUDY LEADING TO THE ORDINARY DEGREE IN CONTROL ENGINEERING

First and Second Years
As for the first and second years in the four-year honours scheme

Third Year
Control engineering 3F(1)
Mathematics 3CG(1)

Dyeing

A scheme of study extending over a period of three years and leading to the ordinary degree of Bachelor of Science in Dyeing.

COURSE REQUIREMENT

For admission to the scheme of study passes in three approved subjects at advanced level are normally required.
One of these passes must be in chemistry.
The *second* and *third* should normally be in physics and mathematics.

THREE-YEAR SCHEME OF STUDY LEADING TO THE ORDINARY DEGREE IN DYEING

First Year
Mathematics 1A
Physics 1A
Chemistry 1B
Colour chemistry 1F

Second Year
Chemistry 2D
Chemistry 3E
Dyeing 2F
Textile technology 1T

Third Year
Dyeing 3F
Colour chemistry 3F
Textile technology 2CC
Engineering 1U *or* Management studies 1
or Chemical engineering 2CC

Electrical and Electronic Engineering

There are three degree schemes in electrical and electronic engineering. Two schemes lead to the degree of Bachelor of Science with honours in Electrical and Electronic Engineering, one extending over four years, the second over three years. In these schemes there are three branches springing from a common stem and leading to final examinations of three distinct types, namely in:
Systems engineering
Applied electronics
Physical electronics
The third scheme extending over three years leads to the ordinary degree of Bachelor of Science in Electrical and Electronic Engineering.

COURSE REQUIREMENT

For admission to all three schemes of study, passes in two approved subjects at advanced level are required.
One of these passes must be in mathematics (which, if examined in one subject, must include pure and applied mathematics).
The *second* must be in physics.

Selection for entry into the three-year honours scheme will be made on the basis of the level of the applicant's achievement in the advanced level examination. Candidates should note that passes in the Higher National Certificate may be regarded as equivalent to passes at advanced level for the purpose of admission to schemes of study in electrical and electronic engineering provided that the physics content of the Higher National Certificate course has been of approximately advanced level standard.

FOUR-YEAR SCHEME OF STUDY LEADING TO THE DEGREE WITH HONOURS IN ELECTRICAL AND ELECTRONIC ENGINEERING

First Year
Electrical and electronic engineering 1H
Mathematics 1A
Physics 1A
The engineer in society 1EE*

Second Year
Electrical and electronic engineering 2F
Mathematics 2EE
Physics 2EE
The engineer in society 2EE*

Third Year
Electrical and electronic engineering 3F(A) *or* 3F(B)†
Mathematics 3EE

Fourth Year
SCHEME A (Systems engineering)
Electrical and electronic engineering 3H(A)

SCHEME B (Applied electronics)
Electrical and electronic engineering 3H(B)

SCHEME C (Physical electronics)
Electrical and electronic engineering 3H(C)

THREE-YEAR SCHEME OF STUDY LEADING TO THE DEGREE WITH HONOURS IN ELECTRICAL AND ELECTRONIC ENGINEERING

First Year
Electrical and electronic engineering 1H
Mathematics 2EE
Physics 2EE
The engineer in society 1EE*

Second Year
SCHEME A (Systems engineering)
Electrical and electronic engineering 2H(A)
Mathematics 3EE
The engineer in society 2EE*

SCHEME B (Applied electronics)
Electrical and electronic engineering 2H(B)
Mathematics 3EE
The engineer in society 2EE*

* To be treated as part of electrical and electronic engineering for examination purposes.
† Electrical and electronic engineering 2H(A), 2H(B) or 2H(C) may be substituted for the 3F course and the dissertation in special cases, with the approval of the head of the Department. Candidates taking this alternative may be eligible for the award of the ordinary degree on the successful completion of the third year of the scheme.

SCHEME C (Physical electronics)
Electrical and electronic engineering 2H(C)
Mathematics 3EE
The engineer in society 2EE*

Third Year
SCHEME A (Systems engineering)
Electrical and electronic engineering 3H(A)

SCHEME B (Applied electronics)
Electrical and electronic engineering 3H(B)

SCHEME C (Physical electronics)
Electrical and electronic engineering 3H(C)

THREE-YEAR SCHEME OF STUDY LEADING TO THE ORDINARY DEGREE IN ELECTRICAL AND ELECTRONIC ENGINEERING
First and Second Years
As in the four-year scheme leading to the degree with honours†

Third Year
Electrical and electronic engineering 3F(A) *or* 3F(B)

Food Science

There are two schemes of study, one extending over four years and leading to the degree of Bachelor of Science with honours in Food Science, the second extending over three years and leading to the ordinary degree of Bachelor of Science in Food Science.

COURSE REQUIREMENT
For admission to either scheme of study passes in three approved subjects at advanced level are normally required.
One of these passes must be in chemistry.
The *second* should normally be in mathematics or in botany, biology or zoology.
The *third* should normally be in physics.
For entry to the four-year honours scheme of study candidates should normally achieve a high standard at advanced level in at least one of the following subjects: chemistry, physics, botany or zoology.
The honours scheme cannot normally be completed in less than four years.

FOUR-YEAR SCHEME OF STUDY LEADING TO THE DEGREE WITH HONOURS IN FOOD SCIENCE
First Year
Chemistry 2D *or* Chemistry 3E
Mathematics 1A *or* Mathematics 1Z *or* Statistics 2Z
Food science 1F
and one of the following courses:
Physics 1A
Biophysics 1A
Botany 1A
Zoology 1A
Biology 1A

• To be treated as part of electrical and electronic engineering for examination purposes.
† With the exception that candidates may be eligible for the award of the ordinary degree without having satisfied the examiners in Physics 2EE.

Second Year
Chemistry 2D *or* Chemistry 3E*
Bacteriology 2B
Food science 2F

Third Year
Biochemistry 2A
Food science 3F

Fourth Year
Scheme A—Food science 4F(A)
Scheme B—Food science 4F(B)
Scheme C—Food science 4F(C)

THREE-YEAR SCHEME OF STUDY LEADING TO THE ORDINARY DEGREE IN FOOD SCIENCE

First Year
Chemistry 2D *or* Chemistry 3E
Botany 1A *or* Zoology 1A *or* Biology 1A
Mathematics 1A *or* Mathematics 1Z *or* Statistics 2Z
Food science 1F

Second Year
Chemistry 2D *or* Chemistry 3E*
Bacteriology 2A
Food science 2F

Third Year
Food science 3P

Students reaching a sufficiently high standard at the end of the second year may be transferred to the honours scheme for the succeeding years.

Fuel and Combustion Engineering

There are two schemes of study leading to the degree of Bachelor of Science with honours in Fuel and Combustion Engineering, one scheme extending over four years and the second over three years.

COURSE REQUIREMENT

For admission to the schemes of study passes in three approved subjects at advanced level are required.
One of these passes must be in chemistry.
The *second* must be in one of pure mathematics, applied mathematics, pure and applied mathematics, pure mathematics with statistics.
The *third* must be in physics.
Selection for entry into the three-year honours scheme will be made on the basis of the applicant's achievement in the advanced level examination.

* Candidates are required to take that course which has not been taken in the first year.

FOUR-YEAR SCHEME OF STUDY LEADING TO THE DEGREE WITH HONOURS IN FUEL AND COMBUSTION ENGINEERING

First Year
Fuel and combustion science 1F
Mathematics 1A
Chemistry 1A *or* 1B

Second Year
Fuel and combustion science 2F
Mathematics 2FU
Chemistry 2T
Engineering 1FE

Third Year
Fuel and combustion engineering 3F
Mathematics 3FU
Engineering 2FE
Chemical engineering 2FE

Fourth Year
Fuel and combustion engineering 4F

THREE-YEAR SCHEME OF STUDY LEADING TO THE DEGREE WITH HONOURS IN FUEL AND COMBUSTION ENGINEERING

First Year
Fuel and combustion science 1H
Mathematics 2FU
Chemistry 2T
Engineering 1FE

Second Year
Fuel and combustion engineering 2H
Mathematics 3FU
Engineering 2FE
Chemical engineering 2FE

Third Year
Fuel and combustion engineering 3H

Fuel and Combustion Science

There are three schemes of study in Fuel and Combustion Science. Two schemes lead to the degree of Bachelor of Science with honours in Fuel and Combustion Science, one extending over four years, the second over three years. The third scheme extends over three years and leads to the ordinary degree of Bachelor of Science in Fuel and Combustion Science.

COURSE REQUIREMENT

For admission to the three- and four-year honours schemes of study passes in three approved subjects at advanced level are required.
One of these passes must be in chemistry.
The *second* must be one of pure mathematics, applied mathematics, pure and applied mathematics, pure mathematics with statistics.
The *third* must be in physics.
Selection for entry into the three-year honours scheme will be made on the basis of the applicant's achievement in the advanced level examination.
For admission to the three-year ordinary degree scheme passes in two approved subjects at advanced level are required. These passes may be in any two of the following: chemistry, mathematics pure and applied (or any other mathematics subject), physics.

FOUR-YEAR SCHEME OF STUDY LEADING TO THE DEGREE WITH HONOURS IN FUEL AND COMBUSTION SCIENCE

First Year
Fuel and combustion science 1F
Mathematics 1A
Chemistry 1A *or* 1B

Second Year
Fuel and combustion science 2F
Mathematics 2FU
Chemistry 2T
Engineering 1T

Third Year
Fuel and combustion science 3F
Physics 2T
Chemistry 3FU
Chemical engineering 2FE

Fourth Year
Fuel and combustion science 4F

THREE-YEAR SCHEME OF STUDY LEADING TO THE DEGREE WITH HONOURS IN FUEL AND COMBUSTION SCIENCE

First Year
Fuel and combustion science 1H
Mathematics 2FU
Chemistry 2T
Engineering 1T

Second Year
Fuel and combustion science 2H
Physics 2T
Chemistry 3FU
Chemical engineering 2FE

Third Year
Fuel and combustion science 3H

THREE-YEAR SCHEME OF STUDY LEADING TO THE ORDINARY DEGREE IN FUEL AND COMBUSTION SCIENCE

First Year
Fuel and combustion science 1P
Mathematics 1A
Chemistry 1A *or* 1B

Second Year
Fuel and combustion science 2P
Physics 2T
Engineering 1FU
Chemical engineering 2FE
Management studies 1

Third Year
Fuel and combustion science 3P

Mechanical Engineering

There are three degree schemes in mechanical engineering. Two schemes, one extending over four years and one over three years, lead to the degree of Bachelor of Science with honours; the third extends over three years and leads to the ordinary degree of Bachelor of Science.

COURSE REQUIREMENT

Four-year honours and three-year ordinary degree schemes: For admission to these schemes of study, passes in two approved subjects at advanced level are required. These will normally include either physics or mathematics but candidates possessing other subject combinations will be considered. Passes in the Ordinary National Diploma at an appropriate level may be accepted in lieu of the advanced level passes.
Three-year scheme leading to honours: For admission to this scheme of study, passes in physics and mathematics (which, if examined as one subject, must include both pure and applied mathematics) are normally required at an appropriate level. A third pass is preferred and this should normally be in a second mathematics subject or chemistry. Applications from holders of the Higher National Diploma in mechanical engineering will be considered on their merits for admission to the second year of the three-year schemes leading to honours.

Vacation Work

All schemes normally require that students shall engage in approved vacation work for a period of at least six weeks during each of two long vacations.

FOUR-YEAR SCHEME OF STUDY LEADING TO THE DEGREE WITH HONOURS IN MECHANICAL ENGINEERING

First Year
Mechanical engineering 1F
Mathematics 1A
Physics 1A
Metallurgy 1ME
The engineer in society 1ME

Second Year
Mechanical engineering 2F
Mathematics 2ME
Fuel and combustion science 1ME
The engineer in society 2ME

Third Year
Mechanical engineering 3F
Mathematics 3ME

Fourth Year
Mechanical engineering 3H

THREE-YEAR SCHEME OF STUDY LEADING TO THE DEGREE WITH HONOURS IN MECHANICAL ENGINEERING

First Year
Mechanical engineering 1H
Mathematics 2ME
Metallurgy 1ME
The engineer in society 1ME

Second Year
Mechanical engineering 2H
Mathematics 3ME
Fuel and combustion science 1ME
The engineer in society 2ME

Third Year
Mechanical engineering 3H

THREE-YEAR SCHEME OF STUDY LEADING TO THE ORDINARY DEGREE IN MECHANICAL ENGINEERING

First Year
Mechanical engineering 1F
Mathematics 1A
Physics 1A
Metallurgy 1ME
The engineer in society 1ME

Second Year
Mechanical engineering 2F
Mathematics 2ME
Fuel and combustion science 1ME
The engineer in society 2ME

Third Year
Mechanical engineering 3F

Metallurgy

There are three schemes of study in metallurgy: two schemes, one extending over four years, the second over three years, lead to the degree of Bachelor of Science with honours in Metallurgy; the third scheme extends over three years and leads to the ordinary degree of Bachelor of Science in Metallurgy.

COURSE REQUIREMENT

For admission to the three- and four-year honours schemes of study, passes in three approved subjects at advanced level are normally required. Candidates will be selected for the three-year honours scheme on the basis of achievement in the advanced level examination.
One of the passes must be in chemistry.
The *second* must be in physics.
The *third* must be in one of the mathematical subjects, preferably in pure and applied mathematics.

For admission to the three-year ordinary degree scheme passes in two of three approved subjects at advanced level (not necessarily in science subjects) are required.
It is possible for students to transfer from the ordinary degree scheme to the four-year scheme leading to the honours degree.
Candidates holding other qualifications including HNC and ONC will be considered for these schemes.

FOUR-YEAR SCHEME OF STUDY LEADING TO THE DEGREE WITH HONOURS IN METALLURGY

First Year
Metallurgy 1H(1)
Mathematics 1A
Chemistry 1B
Management studies A1
Physics 2T

Second Year
Metallurgy 1H(2)
Mathematics 2MT
Engineering 1T

Third Year
Metallurgy 2H*
Ceramics 2MT*
Fuel science 1T*
Chemical engineering 2MT*

Fourth Year
Metallurgy 3H†
Electrical engineering 2MT†
Chemical engineering 3MT†

THREE-YEAR SCHEME OF STUDY LEADING TO THE DEGREE WITH HONOURS IN METALLURGY

First Year
Metallurgy 1H
Mathematics 2MT
Physics 2T

Second Year
Metallurgy 2H*
Ceramics 2MT*
Fuel science 1T*
Chemical engineering 2MT*
Engineering 1T

Third Year
Metallurgy 3H†
Electrical engineering 2MT†
Chemical engineering 3MT†

THREE-YEAR SCHEME OF STUDY LEADING TO THE ORDINARY DEGREE IN METALLURGY

First Year
Metallurgy 1H(1)
Mathematics 1A
Physics 1A
Chemistry 1B
Management studies A1

Second Year
Metallurgy 2P‡
Fuel science 1T‡
Ceramics 2MT‡
Engineering 1T
Physics 2T *or* Management studies A2

Third Year
Metallurgy 3P§
Chemical engineering 2MT§

* The assessment of the Metallurgy 2H examination will include the results of the examinations in Fuel science 1T, Ceramics 2MT and Chemical engineering 2MT.
† The assessment of the Metallurgy 3H examination will include the results of the examinations of Electrica engineering 2MT and Chemical engineering 3MT.
‡ The assessment of the Metallurgy 2P examination will include the results of the examination in Fuel science 1T and Ceramics 2MT.
§ The assessment of the final examination will include the results of the examination in Chemical engineering 2MT.

Vacation work and industrial visits

Students are normally required to engage in approved vacation work for a period of at least six weeks during two long vacations. They are also required to take part in visits to metallurgical industries arranged by the department.

Mining*

There are four schemes of study in mining. Three schemes lead to the degree of Bachelor of Science with honours, one extending over four years, one extending over three years and a shortened conversion scheme extending over two years. The fourth scheme extends over three years and leads to the ordinary degree of Bachelor of Science.

COURSE REQUIREMENT

For admission to the four-year honours and the ordinary degree schemes of study passes in two approved subjects at advanced level are required.

One of these passes should be in physics or chemistry. If chemistry is offered, physics should have been passed at ordinary level.
The *second* should be in mathematics.

For admission to the three-year honours scheme passes at a satisfactory standard in three approved subjects at advanced level in the G.C.E. examination are normally required.

One of these passes should be in physics.
Another should be in applied and pure mathematics, taken as one or two subjects.

For admission to the shortened conversion scheme of study a degree in civil, electrical *or* mechanical engineering is normally required, but graduates in other disciplines may be considered.

FOUR-YEAR SCHEME OF STUDY LEADING TO THE DEGREE WITH HONOURS IN MINING

First Year
Mathematics 1A
Geology 1AM
Metallurgy 1MI
Applied mineral sciences 1F
Mining 1H

Second Year
Mathematics 2MI
Geology 2MI
Engineering 1T
Mining 2F

Third Year
Management studies A1
Engineering 2MI
Mining 3F

Fourth Year
Mining 4F

• Given by the Department of Mining and Mineral Sciences.

THREE-YEAR SCHEME OF STUDY LEADING TO THE DEGREE WITH HONOURS IN MINING

First Year
Mathematics 2MI
Geology 1AM
Metallurgy 1MI
Engineering 1T
Applied mineral sciences 1F
Mining 1H

Second Year
Management studies A1
Geology 2MI
Engineering 2MI
Mining 2H

Third Year
Mining 3H

TWO-YEAR CONVERSION SCHEME OF STUDY LEADING TO THE DEGREE WITH HONOURS IN MINING

First Year
Geology 1AM
Management studies A1
Applied mineral sciences 1F
Mining 1H

Second Year
Geology 2MI
Mining 2H
Mining 3H

Parts of the courses Mining 2H and Mining 3H may be taken during the first year of the scheme of study.

THREE-YEAR SCHEME LEADING TO THE ORDINARY DEGREE IN MINING

First Year
Mathematics 1A
Geology 1AM
Metallurgy 1MI
Applied mineral sciences 1F
Mining 1H

Second Year
Management studies A1
Geology 2MI
Engineering 1T
Mining 2H

Third Year
Mining 3P

Vacation work and industrial visits
The schemes of study will include appropriate field work and technical visits during term and vacations.

Textile Chemistry

There are two schemes of study leading to the degree of Bachelor of Science with honours in Textile Chemistry, one extending over three years, the other extending over four years.

COURSE REQUIREMENT

For admission to either scheme of study passes in two approved subjects at advanced level are required.
One of these passes must be in chemistry.
The *second* should normally be in mathematics, pure and applied.
Selection for entry into the three-year scheme of study will be made on the basis of achievement in the advanced level examination.

THREE-YEAR SCHEME OF STUDY LEADING TO THE DEGREE OF BACHELOR OF SCIENCE WITH HONOURS IN TEXTILE CHEMISTRY

First Year
Chemistry 2D
Chemistry 3E
Textile chemistry 2F
Textiles 1T
Textiles 2TC

Second Year
Chemistry 4B
Textile chemistry 3F
Textiles 3TC

Third Year
Textile chemistry 4F(1)
Textile chemistry 4F(2)
Textile chemistry 4F(3)
Textiles 4TC

FOUR-YEAR SCHEME OF STUDY LEADING TO THE DEGREE OF BACHELOR OF SCIENCE WITH HONOURS IN TEXTILE CHEMISTRY

First Year
Mathematics 1A *or* 1Z
Physics 1A
Chemistry 1A
Textiles 1T

Second Year
Chemistry 2D
Chemistry 3E
Textile chemistry 2F
Textiles 2TC

Third Year
Chemistry 4B
Textile chemistry 3F
Textiles 3TC

Fourth Year
Textile chemistry 4F(1)
Textile chemistry 4F(2)
Textile chemistry 4F(3)
Textiles 4TC

Textile Engineering

There are two schemes of study leading to the degree of Bachelor of Science with honours in Textile Engineering, one extending over three years, the other extending over four years.

COURSE REQUIREMENT

For admission to either scheme of study passes in two approved subjects at advanced level are required.
One of these passes must be in mathematics, pure and applied.
The *second* should normally be in physics.
Selection for entry into the three-year scheme of study will be made on the basis of achievement in the advanced level examination.

THREE-YEAR SCHEME OF STUDY LEADING TO THE DEGREE OF BACHELOR OF SCIENCE WITH HONOURS IN TEXTILE ENGINEERING

First Year
Engineering 1TE
Mathematics 2TE
Textiles 1T
Textiles 2TE(H)

Second Year
Engineering 2TE (1) and 2TE (2)
Textile engineering 2F
Textile engineering 3F
Textiles 3TE(H)

Third Year
Engineering 3TE
Textile engineering 4F
Textiles 4TE(H)

FOUR-YEAR SCHEME OF STUDY LEADING TO THE DEGREE OF BACHELOR OF SCIENCE WITH HONOURS IN TEXTILE ENGINEERING

First Year
Engineering 1TE
Mathematics 1A
Physics 1A
Textiles 1T

Second Year
Engineering 2TE (1)
Mathematics 2TE
Textile engineering 2F
Textiles 2TE(F)

Third Year
Engineering 2TE (2)
Textile engineering 3F
Textiles 3TE(F)

Fourth Year
Engineering 3TE
Textile engineering 4F
Textiles 4TE(F)

Textile Industries

The scheme of study leading to the ordinary degree of Bachelor of Science in Textile Industries extends over three years; suitably qualified candidates may obtain the degree of Bachelor of Science with honours in Textile Industries by presenting a thesis embodying the results of original research and additionally they may be required to attend ancillary lectures and pass an appropriate examination; the scheme of study may then extend over four years.

COURSE REQUIREMENT

For admission to the scheme of study passes in two approved subjects at advanced level are required. These passes may be in any approved science subject.

THREE-YEAR SCHEME OF STUDY LEADING TO THE ORDINARY DEGREE OF BACHELOR OF SCIENCE IN TEXTILE INDUSTRIES

SCHEME A

First Year

Textiles 1T
and *three* of the following:
- Mathematics 1A *or* 1Z
- Physics 1A
- Chemistry 1A
- Engineering 1TI

Second Year

Statistics and textile testing 2TI
Fibre science 2TI
Textiles 2P(A)

Third Year

Management studies 1
Fibre science 3TI
Textiles 3P(A)

SCHEME B (To be taken only in special circumstances and with the approval of the head of the department)

First Year

Textiles 1T
and *three* of the following:
- Mathematics 1A *or* 1Z
- Physics 1A
- Chemistry 1A
- Engineering 1TI

Second Year

Textiles 2P(B)
and *two* of the following:
- Mathematics 2TE *or* 2TP
- Physics 2A
- Chemistry 2D
- Chemistry 3E
- Chemistry 4B
- Statistics and textile testing 2TI

Third Year

Fibre science 3TI
Textiles 3P(B)

The Degree of Bachelor of Science with Honours in Textile Industries

Following graduation with the ordinary degree of Bachelor of Science in textile industries candidates may obtain the degree with honours in textile industries by presenting a thesis embodying the results of original research. In addition, they may be required to attend ancillary lectures and pass an appropriate examination.

Scheme of Study for the Degree of Bachelor of Arts in Economics and Textile Industries

Particulars of this scheme will be found in the prospectus, *Faculty of Economic and Social Studies*, pages E24-25.

Scheme of Study for the Degree of Bachelor of Arts in Textile Design

Particulars of this scheme will be found in the prospectus, *Faculty of Arts*, pages C119-20.

Scheme of Study for the Degree of Bachelor of Arts in Textile Management

Particulars of this scheme will be found in the prospectus, *Faculty of Arts*, pages C120-1.

Textile Physics

There are two schemes of study leading to the degree of Bachelor of Science with honours in Textile Physics, one extending over three years, the other extending over four years.

COURSE REQUIREMENT

For admission to either scheme of study passes in two approved subjects at advanced level are required.

One of these passes must be in physics.
The *second* must be in mathematics, pure and applied.
Selection for entry into the three-year scheme of study will be made on the basis of achievement in the advanced level examination.

THREE-YEAR SCHEME OF STUDY LEADING TO THE DEGREE OF BACHELOR OF SCIENCE WITH HONOURS IN TEXTILE PHYSICS

First Year
Mathematics 2TP
Physics 2A
Textile physics 2F
Textiles 1T
Textiles 2TP

Second Year
Physics 3A
Textile physics 3F
Textiles 3TP

Third Year
Textile physics 4F
Textiles 4TP

FOUR-YEAR SCHEME OF STUDY LEADING TO THE DEGREE OF BACHELOR OF SCIENCE WITH HONOURS IN TEXTILE PHYSICS

First Year
Mathematics 1A
Physics 1A
Chemistry 1A
Textiles 1T

Second Year
Mathematics 2TP
Physics 2A
Textile physics 2F
Textiles 2TP

Third Year
Physics 3A
Textile physics 3F
Textiles 3TP

Fourth Year
Textile physics 4F
Textiles 4TP

Schemes of Study in Two Main Subjects Combined

Combined schemes of study are designed to provide for the study of two principal subjects to a high level with support from another subject (or subjects) which is studied to a lower level. The ancillary subject (or subjects) is, in general, chosen for its bearing on the two principal subjects, although the choice may usually be made from among a group of applicable subjects. Most of these schemes combine subjects in the Faculty of Science but a few schemes combine subjects in the Faculty of Science with subjects in other Faculties.

The principal subjects are studied throughout the scheme of study or, in the case of subjects in which there are no first-year courses (usually subjects which are not taught at school), in the second, third and fourth years of the four-year scheme. Ancillary subjects are studied in the first, second and third years of a scheme and may consist of one year's study in one subject and two years' study in another, or three years' study in one subject. The three-year schemes of study will be identical with the second, third or fourth years of the four-year schemes as far as courses in the principal subjects are concerned. The choice of ancillary subjects and the courses therein will depend, however, on the subjects passed at the advanced level of the examination for the General Certificate of Education (or equivalent examination) and the level of attainment therein. Courses in ancillary subjects will be selected in consultation with the Director of Combined Studies from among those approved for the scheme of study as set out below, although the years of the scheme in which these courses are taken may, with the permission of the Director of Combined Studies, be varied from those shown.

The provision of schemes of study with combinations of principal subjects other than those listed will be considered and may be approved subject to their academic suitability and to time-table considerations. Those interested in combinations not listed should address enquiries to the Director of Combined Studies in the Faculty of Science.

Bacteriology-Biochemistry

The scheme of study leading to the degree of Bachelor of Science with honours in Bacteriology and Biochemistry (combined) extends over four years but suitably qualified candidates will be exempted from the first year and be able to complete the scheme of study in three years.

COURSE REQUIREMENT

Four-year scheme for the degree with honours: for admission to the scheme of study passes in two approved subjects at advanced level are required. This requirement will normally be met by passes at advanced level in two of the following: chemistry, physics and a biological subject (botany, zoology or biology), and a pass at ordinary level in the third; candidates without these qualifications may be considered.

For exemption from the first year of the four-year honours scheme passes at a high standard in three approved subjects at advanced level are normally required.
One pass should be in chemistry.
The *second* should be in botany, zoology or biology.
The *third* should be in physics.

FOUR-YEAR SCHEME OF STUDY FOR THE DEGREE WITH HONOURS

First Year
Chemistry 1A *or* 1B
Biophysics 1A *or* Physics 1A
Botany 1A *or* Zoology 1A *or* Biology 1A

Second Year
Bacteriology 2A *or* 2B
Biochemistry 2A
Agricultural chemistry 2A *or* Botany 2A *or* Chemistry 2B *or* Physics 2B *or* Zoology 2A *or* a course in a subject approved by the Director of Combined Studies.

Students intending to take Genetics 3A and not taking Botany 2A or Zoology 2A will be required to attend, in the second year, some classes in Genetics (provided in Botany 2A and Zoology 2A) in addition to those which are included in Bacteriology 2A *or* 2B. These extra classes are expected to amount to three lectures and three 3-hour practicals in the Spring term.

Third Year
Bacteriology 3A
Biochemistry 3A
Agricultural chemistry 2A *or* Zoology 2A *or* 3A *or* Genetics 3A

Fourth Year
Bacteriology 4A *or* 4B
Biochemistry 4A

Ordinary Degree
Students who are unable to complete the honours degree scheme may be awarded the ordinary degree, after three years' residence, on completion of the required courses for the first three years of the honours degree scheme, and after passing the third-year examinations in the two main subjects and the second-year examination in one other subject.

Bacteriology-Botany

The scheme of study leading to the degree of Bachelor of Science with honours in Bacteriology and Botany (combined) extends over four years but suitably qualified candidates will be exempted from the first year and be able to complete the scheme of study in three years.

COURSE REQUIREMENT

Four-year scheme for the degree with honours: for admission to the scheme of study passes in two approved subjects at advanced level are required. This requirement will normally be met by passes at advanced level in two of the following: chemistry, physics and a biological subject (botany, zoology or biology), and a pass at ordinary level in the third; candidates without these qualifications may be considered.

For exemption from the first year of the four-year honours scheme passes at a high standard in three approved subjects at advanced level are normally required.
One pass should be in botany (or biology).
The *second* should be in chemistry.
The *third* should be in physics.

FOUR-YEAR SCHEME OF STUDY FOR THE DEGREE WITH HONOURS

First Year
Botany 1A
Chemistry 1A *or* 1B
Biophysics 1A *or* Physics 1A

Second Year
Bacteriology 2A *or* 2B
Botany 2A
Biochemistry 2A

Third Year
Bacteriology 3A
Botany 3A
Agricultural chemistry 2A *or* Biochemistry 3A *or* Genetics 3A *or* a course in a subject approved by the Director of Combined Studies.

Fourth Year
Bacteriology 4A *or* 4B
Botany 4A

Ordinary Degree
Students who are unable to complete the honours degree scheme may be awarded the ordinary degree, after three years' residence, on completion of the required courses for the first three years of the honours degree scheme, and after passing the third-year examinations in the two main subjects and the second-year examination in one other subject.

Field Work
The courses in Botany will include field work during term and vacation; one field course will be held abroad.

Bacteriology-Chemistry

The scheme of study leading to the degree of Bachelor of Science with honours in Bacteriology and Chemistry (combined) extends over four years but suitably qualified candidates will be exempted from the first year and be able to complete the scheme of study in three years.

COURSE REQUIREMENT

Four-year scheme for the degree with honours: for admission to the scheme of study passes in two approved subjects at advanced level are required. This requirement will normally be met by passes at advanced level in two of the following: chemistry, mathematics, physics and a biological subject (botany, zoology or biology), and a pass at ordinary level in the others; candidates without these qualifications may be considered. Candidates not presenting mathematics at advanced level should have some knowledge of elementary calculus as a background to courses in chemistry.

For exemption from the first year of the four-year honours scheme passes at a high standard in three approved subjects at advanced level are normally required.
One pass should be in chemistry.
The *second* should be in botany, zoology or biology.
The *third* should be in physics.

FOUR-YEAR SCHEME OF STUDY FOR THE DEGREE WITH HONOURS

First Year
Chemistry 1A *or* 1B
Physics 1A
Botany 1A *or* Zoology 1A *or* Biology 1A

Second Year
Bacteriology 2A
Chemistry 2A
Biochemistry 2A

Students intending to take Genetics 3A will be required to attend, in the second year, some classes in Genetics (provided in Botany 2A and Zoology 2A) in addition to those which are included in Bacteriology 2A *or* 2B. These extra classes are expected to amount to three lectures and three 3-hour practical classes in the Spring term.

Third Year
Bacteriology 3A
Chemistry 3A
Agricultural chemistry 2A *or* 2B *or* Biochemistry 3A *or* Genetics 3A *or* a course in a subject approved by the Director of Combined Studies.

Fourth Year
Bacteriology 4A *or* 4B
Chemistry 4A (organic)

A course in elementary mathematics may be added to the scheme of study for those whose background in mathematics is inadequate.

Ordinary Degree

Students who are unable to complete the honours degree scheme may be awarded the ordinary degree, after three years' residence, on completion of the required courses for the first three years of the honours degree scheme, and after passing the third-year examinations in the two main subjects and the second-year examination in one other subject.

Bacteriology-Food Science

The scheme of study leading to the degree of Bachelor of Science with honours in Bacteriology and Food Science (combined) extends over four years but suitably qualified candidates will be exempted from the first year and be able to complete the scheme of study in three years.

COURSE REQUIREMENT

Four-year scheme for the degree with honours: for admission to the scheme of study passes in two approved subjects at advanced level are required. This requirement will normally be met by passes at advanced level in two of the following: chemistry, physics and a biological subject (botany, zoology or biology), and a pass at ordinary level in the third; candidates without these qualifications may be considered.

For exemption from the first year of the four-year honours scheme passes at a high standard in three approved subjects at advanced level are normally required.
One pass should be in chemistry.
The *second* should be in botany, zoology, or biology.
The *third* should be in physics.

FOUR-YEAR SCHEME OF STUDY FOR THE DEGREE WITH HONOURS

First Year
Chemistry 1A *or* 1B
Physics 1A
Botany 1A *or* Zoology 1A *or* Biology 1A

Second Year
Bacteriology 2A *or* 2B
Food science 2A
Biochemistry 2A

Third Year
Bacteriology 3A
Food science 3A
Chemistry 3E

Fourth Year
Bacteriology 4B
Food science 4A

Ordinary Degree
Students who are unable to complete the honours degree scheme may be awarded the ordinary degree, after three years' residence, on completion of the required courses for the first three years of the honours degree scheme, and after passing the third-year examinations in the two main subjects and the second-year examination in one other subject.

Bacteriology-Genetics

The scheme of study leading to the degree of Bachelor of Science with honours in Bacteriology and Genetics (combined) extends over four years but suitably qualified candidates will be exempted from the first year and be able to complete the scheme of study in three years.

COURSE REQUIREMENT

Four-year scheme for the degree with honours: for admission to the scheme of study passes in two approved subjects at advanced level are required. This requirement will normally be met by passes at advanced level in two of the following: chemistry, physics and a biological subject (botany, zoology or biology), and a pass at ordinary level in the third; candidates without these qualifications may be considered.

For exemption from the first year of the four-year honours scheme passes at a high standard in three approved subjects at advanced level are normally required.
One pass should be in chemistry.
The *second* should be in botany, zoology or biology.
The *third* should be in physics or mathematics.

FOUR-YEAR SCHEME OF STUDY FOR THE DEGREE WITH HONOURS

First Year
Chemistry 1A *or* 1B
Physics 1A *or* Biophysics 1A
Botany 1A *or* Zoology 1A *or* Biology 1A

Second Year
Bacteriology 2A
Biochemistry 2A
Chemistry 2B *or* Botany 2A *or* Zoology 2A

Students not taking Botany 2A *or* Zoology 2A in the second year will be required to attend some lectures and practical classes on Genetics (provided in Botany 2A and Zoology 2A) in addition to those which are included in Bacteriology 2A *or* 2B. These extra classes will probably amount to three lectures and three 3-hour practical classes in the Spring term.

Third Year
Bacteriology 3A
Genetics 3A
Biochemistry 3A

Fourth Year
Bacteriology 4A
Genetics 4A

Ordinary Degree
Students who are unable to complete the honours degree scheme may be awarded the ordinary degree, after three years' residence, on completion of the required courses for the first three years of the honours degree scheme, and after passing the third-year examinations in the two main subjects and the second-year examination in one other subject.

Bacteriology-Zoology

The scheme of study leading to the degree of Bachelor of Science with honours in Bacteriology and Zoology (combined) extends over four years but suitably qualified candidates will be exempted from the first year and be able to complete the scheme of study in three years.

COURSE REQUIREMENT

Four-year scheme for the degree with honours: for admission to the scheme of study passes in two approved subjects at advanced level are required. This requirement will normally be met by passes at advanced level in two of the following: chemistry, physics and zoology (or biology), and a pass at ordinary level in the third; candidates without these qualifications may be considered.

For exemption from the first year of the four-year honours scheme passes at a high standard in three approved subjects at advanced level are normally required.
One pass should be in chemistry.
The *second* should be in zoology (or biology).
The *third* should be in physics.

FOUR-YEAR SCHEME OF STUDY FOR THE DEGREE WITH HONOURS

First Year
Chemistry 1A *or* 1B
Zoology 1A
Biophysics 1A *or* Physics 1A

Second Year
Bacteriology 2A *or* 2B
Zoology 2A
Biochemistry 2A

Third Year
Bacteriology 3A
Zoology 3A
Agricultural chemistry 2B *or* Biochemistry 3A *or* Genetics 3A *or* a course in a subject approved by the Director of Combined Studies.

Fourth Year
Bacteriology 4A *or* 4B
Zoology 4A

Ordinary Degree

Students who are unable to complete the honours degree scheme may be awarded the ordinary degree, after three years' residence, on completion of the required courses for the first three years of the honours degree scheme, and after passing the third-year examinations in the two main subjects and the second-year examination in one other subject.

Field Work
The courses in zoology will include field work during term and one vacation course which may be held abroad.

Biochemistry-Botany

The scheme of study leading to the degree of Bachelor of Science with honours in Biochemistry and Botany (combined) extends over four years but suitably qualified candidates will be exempted from the first year and be able to complete the scheme of study in three years.

COURSE REQUIREMENT

Four-year scheme for the degree with honours: for admission to the scheme of study passes in two approved subjects at advanced level are required. This requirement will normally be met by passes at advanced level in two of the following: chemistry, physics and a biological subject (botany, zoology or biology), and a pass at ordinary level in the third; candidates without these qualifications may be considered.

For exemption from the first year of the four-year honours scheme passes at a high standard in three approved subjects at advanced level are normally required.
One pass should be in botany (or biology).
The *second* should be in chemistry.
The *third* should be in physics.

FOUR-YEAR SCHEME OF STUDY FOR THE DEGREE WITH HONOURS

First Year
Botany 1A
Chemistry 1A *or* 1B
Biophysics 1A *or* Physics 1A

Second Year
Biochemistry 2A
Botany 2A
Bacteriology 2A *or* 2B

Third Year
Biochemistry 3A
Botany 3A
Agricultural chemistry 2A *or* Chemistry 2B *or* Bacteriology 3A *or* Genetics 3A *or* a course in a subject approved by the Director of Combined Studies.

Fourth Year
Biochemistry 4A
Botany 4A

Ordinary Degree

Students who are unable to complete the honours degree scheme may be awarded the ordinary degree, after three years' residence, on completion of the required courses for the first three years of the honours degree scheme, and after passing the third-year examinations in the two main subjects and the second-year examination in one other subject.

Field Work

The courses in Botany will include field work during term and vacation; one field course will be held abroad.

Biochemistry-Food Science

The scheme of study leading to the degree of Bachelor of Science with honours in Biochemistry and Food Science (combined) extends over four years but suitably qualified candidates will be exempted from the first year and be able to complete the scheme of study in three years.

COURSE REQUIREMENT

Four-year scheme for the degree with honours: for admission to the scheme of study passes in two approved subjects at advanced level are required. This requirement will normally be met by passes at advanced level in two of the following: chemistry, physics and a biological subject (botany, zoology or biology), and a pass at ordinary level in the third; candidates without these qualifications may be considered.

For exemption from the first year of the four-year honours scheme passes at a high standard in three approved subjects at advanced level are normally required.
One pass should be in chemistry.
The *second* should be in botany, zoology or biology.
The *third* should be in physics.

FOUR-YEAR SCHEME OF STUDY FOR THE DEGREE WITH HONOURS

First Year
Chemistry 1A *or* 1B
Physics 1A
Botany 1A *or* Zoology 1A *or* Biology 1A

Second Year
Biochemistry 2A
Food science 2A
Bacteriology 2A *or* 2B

Third Year
Biochemistry 3A
Food science 3A
Chemistry 3E

Fourth Year
Biochemistry 4A
Food science 4A

Ordinary Degree

Students who are unable to complete the honours degree scheme may be awarded the ordinary degree, after three years' residence, on completion of the required courses for the first three years of the honours degree scheme, and after passing the third-year examinations in the two main subjects and the second-year examination in one other subject.

Biochemistry-Genetics

The scheme of study leading to the degree of Bachelor of Science with honours in Biochemistry and Genetics (combined) extends over four years but suitably qualified candidates will be exempted from the first year and be able to complete the scheme of study in three years.

COURSE REQUIREMENT

Four-year scheme for the degree with honours: for admission to the scheme of study passes in two approved subjects at advanced level are required. This requirement will normally be met by passes at advanced level in two of the following: chemistry, physics and a biological subject (botany, zoology or biology), and a pass at ordinary level in the third; candidates without these qualifications may be considered.

For exemption from the first year of the four-year honours scheme passes at a high standard in three approved subjects at advanced level are normally required.
One pass should be in chemistry.
The *second* should be in botany, zoology or biology.
The *third* should be in physics or mathematics.

FOUR-YEAR SCHEME OF STUDY FOR THE DEGREE WITH HONOURS

First Year
Chemistry 1A *or* 1B
Physics 1A *or* Biophysics 1A
Botany 1A *or* Zoology 1A *or* Biology 1A

Second Year
Biochemistry 2A
Chemistry 2B
Bacteriology 2A *or* 2B *or* Botany 2A *or* Zoology 2A *or* Physiology 2A

Students not taking Botany 2A or Zoology 2A in the second year will be required to attend some lectures and practical classes on Genetics (provided in Botany 2A and Zoology 2A) in addition to those which are included in Bacteriology 2A or 2B. These extra classes will probably amount to three lectures and three 3-hour practical classes in the Spring term.

Third Year
Biochemistry 3A
Genetics 3A
Bacteriology 2A *or* 2B *or* 3A, *or* Botany 2A *or* 3A, *or* Zoology 2A *or* 3A

Fourth Year
Biochemistry 4A
Genetics 4A

Ordinary Degree

Students who are unable to complete the honours degree scheme may be awarded the ordinary degree, after three years' residence, on completion of the required courses for the first three years of the honours degree scheme, and after passing the third-year examinations in the two main subjects and the second-year examination in one other subject.

Biochemistry-Physiology

The scheme of study leading to the degree of Bachelor of Science with honours in Biochemistry and Physiology (combined) extends over four years but suitably qualified candidates will be exempted from the first year and be able to complete the scheme of study in three years.

COURSE REQUIREMENT

Four-year scheme for the degree with honours: for admission to the scheme of study passes in two approved subjects at advanced level are required. This requirement will normally be met by passes at advanced level in any two of the following: chemistry, physics, mathematics and zoology (or biology), and a pass at ordinary level in the others; candidates without these qualifications may be considered.

For exemption from the first year of the four-year honours scheme passes at a high standard in three approved subjects at advanced level are normally required.
One pass should be in chemistry.
The *second* and *third* should be in two of the following—physics, mathematics, zoology (or biology).

FOUR-YEAR SCHEME OF STUDY FOR THE DEGREE WITH HONOURS

First Year
Chemistry 1A *or* 1B
Physics 1A *or* Biophysics 1A
Zoology 1A *or* Biology 1A *or* Mathematics 1A

Second Year
Biochemistry 2A
Physiology 2A
Chemistry 2B

Students intending to take Genetics 3A will be required to attend, in the second year, the classes in Genetics provided in Botany 2A and Zoology 2A. These extra classes are expected to amount to eight lectures and three 3-hour practical classes in the Spring term.

Third Year
Biochemistry 3A
Physiology 3A
Genetics 3A *or* a course in another subject approved by the Director of Combined Studies.

Fourth Year
Biochemistry 4A
Physiology 4A
Those whose background in mathematics is inadequate may be required to attend a course in elementary mathematics in addition to the normal requirements of the scheme of study.

Ordinary Degree

Students who are unable to complete the honours degree scheme may be awarded the ordinary degree, after three years' residence, on completion of the required courses for the first three years of the honours degree scheme, and after passing the third-year examinations in the two main subjects and the second-year examination in one other subject.

Biochemistry-Zoology

The scheme of study leading to the degree of Bachelor of Science with honours in Biochemistry and Zoology (combined) extends over four years but suitably qualified candidates will be exempted from the first year and be able to complete the scheme of study in three years.

COURSE REQUIREMENT

Four-year scheme for the degree with honours: for admission to the scheme of study passes in two approved subjects at advanced level are required. This requirement will normally be met by passes at advanced level in two of the following: chemistry, physics and a biological subject (botany, zoology or biology), and a pass at ordinary level in the third; candidates without these qualifications may be considered.

For exemption from the first year of the four-year honours scheme passes at a high standard in three approved subjects at advanced level are normally required.
One pass should be in chemistry.
The *second* should be in zoology (or biology).
The *third* should be in physics.

FOUR-YEAR SCHEME OF STUDY FOR THE DEGREE WITH HONOURS

First Year

Chemistry 1A *or* 1B
Physics 1A *or* Biophysics 1A
Zoology 1A

Second Year

Biochemistry 2A
Zoology 2A
Bacteriology 2A *or* 2B

Third Year

Biochemistry 3A
Zoology 3A
Bacteriology 3A *or* Genetics 3A *or* a course in a subject approved by the Director of Combined Studies.

Fourth Year

Biochemistry 4A
Zoology 4A

Ordinary Degree

Students who are unable to complete the honours degree scheme may be awarded the ordinary degree, after three years' residence, on completion of the required courses for the first three years of the honours degree scheme, and after passing the third-year examinations in the two main subjects and the second-year examination in one other subject.

Field Work

The courses in zoology will include field work during term and one vacation course which may be held abroad.

Botany-Chemistry

The scheme of study leading to the degree of Bachelor of Science with honours in Botany and Chemistry (combined) extends over four years but suitably qualified candidates will be exempted from the first year and be able to complete the scheme of study in three years.

COURSE REQUIREMENT

Four-year scheme for the degree with honours: for admission to the scheme of study passes in two approved subjects at advanced level are required. This requirement will normally be met by passes at advanced level in two of the following: chemistry, mathematics, physics and botany (or biology), and a pass at ordinary level in the others; candidates without these qualifications may be considered. Candidates not presenting mathematics at advanced level should have some knowledge of elementary calculus as a background to courses in chemistry.

For exemption from the first year of the four-year honours scheme passes at a high standard in three approved subjects at advanced level are normally required.
One pass should be in botany (or biology).
The *second* should be in chemistry.
The *third* should be in physics.

FOUR-YEAR SCHEME OF STUDY FOR THE DEGREE WITH HONOURS

First Year

Botany 1A
Chemistry 1A *or* 1B
Physics 1A *or* Biophysics 1A

Second Year

Botany 2A
Chemistry 2A
Biochemistry 2A

Third Year

Botany 3A
Chemistry 3A
Agricultural chemistry 2A *or* 2B or Agricultural botany 2A *or* Bacteriology 2A *or* 2B *or* Genetics 3A

Fourth Year

Botany 4A
Chemistry 4A (Organic)
A course in elementary mathematics may be added to the scheme of study for those whose background in mathematics is inadequate.

Ordinary Degree

Students who are unable to complete the honours degree scheme may be awarded the ordinary degree, after three years' residence, on completion of the required courses for the first three years of the honours degree scheme, and after passing the third-year examinations in the two main subjects and the second-year examination in one other subject.

Field Work

The courses in botany will include field work during term and vacation; one field course will be held abroad.

Botany-Genetics

The scheme of study leading to the degree of Bachelor of Science with honours in Botany and Genetics (combined) extends over four years but suitably qualified candidates will be exempted from the first year and be able to complete the scheme of study in three years.

COURSE REQUIREMENT

Four-year scheme for the degree with honours: for admission to the scheme of study passes in two approved subjects at advanced level are required. This requirement will normally be met by passes at advanced level in two of the following: chemistry, physics and a biological subject (botany, zoology or biology), and a pass at ordinary level in the third; candidates without these qualifications may be considered.

For exemption from the first year of the four-year honours scheme passes at a high standard in three approved subjects at advanced level are normally required.
One pass should be in chemistry.
The *second* should be in botany or biology.
The *third* should be in physics or mathematics.
Alternatively the *second* and *third* may be in botany *and* zoology.

FOUR-YEAR SCHEME OF STUDY FOR THE DEGREE WITH HONOURS

First Year

Chemistry 1A *or* 1B
Botany 1A
Physics 1A *or* Biophysics 1A *or* Mathematics 1A *or* Zoology 1A

Second Year

Botany 2A
Biochemistry 2A
Bacteriology 2A *or* 2B *or* Chemistry 2B *or* Zoology 2A

Third Year

Botany 3A
Genetics 3A
Biochemistry 3A *or* Bacteriology 3A *or* Zoology 3A

Fourth Year

Botany 4A
Genetics 4A

Ordinary Degree

Students who are unable to complete the honours degree scheme may be awarded the ordinary degree, after three years' residence, on completion of the required courses for the first three years of the honours degree scheme, and after passing the third-year examinations in the two main subjects and the second-year examination in one other subject.

Field Work

The courses in botany will include field work during term and vacation; one field course will be held abroad.

Botany-Zoology

The scheme of study leading to the degree of Bachelor of Science with honours in Botany and Zoology (combined) extends over four years but suitably qualified candidates will be exempted from the first year and be able to complete the scheme of study in three years.

COURSE REQUIREMENT

Four-year scheme for the degree with honours: for admission to the scheme of study passes in two approved subjects at advanced level are required. This requirement will normally be met by passes at advanced level in two of the following: chemistry, physics and a biological subject (botany, zoology or biology), and a pass at ordinary level in the third; candidates without these qualifications may be considered.

For exemption from the first year of the four-year honours scheme passes at a high standard in three approved subjects at advanced level are normally required.
One pass should be in chemistry.
The *second* should be in biology.
The *third* should be in physics *or* mathematics.
Alternatively, the *second* and *third* may be in botany and zoology.

FOUR-YEAR SCHEME OF STUDY FOR THE DEGREE WITH HONOURS

First Year

Botany 1A
Zoology 1A
Chemistry 1A *or* 1B

Second Year

Botany 2A
Zoology 2A
Biochemistry 2A

Third Year

Botany 3A
Zoology 3A
Bacteriology 2A *or* 2B *or* Biochemistry 3A *or* Genetics 3A *or* a course in a subject approved by the Director of Combined Studies.

Fourth Year

Botany 4A
Zoology 4A

Ordinary Degree

Students who are unable to complete the honours degree scheme may be awarded the ordinary degree, after three years' residence, on completion of the required courses for the first three years of the honours degree scheme, and after passing the third-year examinations in the two main subjects and the second-year examination in one other subject.

Field Work

The courses in zoology will include field work during term and one vacation course which may be held abroad.
The courses in botany will include field work during term and vacation; one field course will be held abroad.

Chemistry-Applied Mineral Sciences

The scheme of study leading to the degree of Bachelor of Science with honours in Chemistry and Applied Mineral Sciences (combined) extends over four years but suitably qualified candidates will be exempted from the first year and be able to complete the scheme of study in three years.

COURSE REQUIREMENT

Four-year scheme for the degree with honours: for admission to the scheme of study passes in two approved subjects at advanced level are required. This requirement will normally be met by passes at advanced level in two of the following: chemistry, mathematics and physics, and a pass at ordinary level in the third; candidates without these qualifications may be considered. Candidates not presenting mathematics at advanced level should have some knowledge of elementary calculus as a background to courses in chemistry.

For exemption from the first year of the four-year honours scheme passes at a high standard in three approved subjects at advanced level are normally required.
One pass should be in chemistry.
The *second* should be in mathematics (which, if examined as one subject, must include both pure and applied mathematics).
The *third* should be in physics.

FOUR-YEAR SCHEME OF STUDY FOR THE DEGREE WITH HONOURS

First Year
Chemistry 1A *or* 1B
Mathematics 1A
Physics 1A
Applied mineral sciences 1F

Second Year
Chemistry 2A
Mineral sciences 2A
Mathematics 2A

Third Year
Chemistry 3A
Mineral sciences 3A
A course in a subject approved by the Director of Combined Studies: this will normally be Geology 1AM

Fourth Year
Chemistry 4A (Inorganic)
Mineral sciences 4A

Vacation Work and Visits in Applied Mineral Sciences
Students are normally required to engage in approved vacation work for a period of at least six weeks for each of the two long vacations. In addition, students are required to take part in industrial tours.

Ordinary Degree
Students who are unable to complete the honours degree scheme may be awarded the ordinary degree, after three years' residence, on completion of the required courses for the first three years of the honours degree scheme, and after passsing the third-year examinations in the two main subjects and the second-year examination in one other subject.

Chemistry-Earth Sciences

The scheme of study leading to the degree of Bachelor of Science with honours in Chemistry and Earth Sciences (combined) extends over four years but suitably qualified candidates will be exempted from the first year and be able to complete the scheme of study in three years.

COURSE REQUIREMENT

Four-year scheme for the degree with honours: for admission to the scheme of study passes in two approved subjects at advanced level are required. This requirement will normally be met by passes at advanced level in two of the following: chemistry, mathematics and physics, and a pass at ordinary level in the third; candidates without these qualifications may be considered. Candidates not presenting mathematics at advanced level should have some knowledge of elementary calculus as a background to courses in chemistry.

For exemption from the first year of the four-year honours scheme passes at a high standard in three approved subjects at advanced level are normally required.
One pass should be in chemistry.
The *second* should be in mathematics (which, if examined as one subject, must include both pure and applied mathematics) or physics.
The *third* may be in any approved subject.

FOUR-YEAR SCHEME OF STUDY FOR THE DEGREE WITH HONOURS

First Year
Chemistry 1A *or* 1B
Mathematics 1A
Physics 1A

Second Year
Chemistry 2A
Earth sciences 2A
Ceramics 2A *or* Mathematics 2A *or* Physics 2A *or* 2B *or* Statistics 2A *or* a course in a subject approved by the Director of Combined Studies.

Third Year
Chemistry 3A
Earth sciences 3A
Ceramics 2A *or* Mathematics 2A *or* Physics 2B *or* Statistics 2A

Fourth Year
Chemistry 4A (Inorganic)
Earth sciences 4A

A course in elementary mathematics may be added to the scheme of study for those whose background in mathematics is inadequate.
The first-year course in physics (Physics 1A) will be included in the scheme of study for those candidates who have not passed physics at advanced level.

Ordinary Degree

Students who are unable to complete the honours degree scheme may be awarded the ordinary degree, after three years' residence, on completion of the required courses for the first three years of the honours degree scheme, and after passing the third-year examinations in the two main subjects and the second-year examination in one other subject.

Field Work

The courses in earth sciences will include field work during term and vacations.

Chemistry-Economics

The scheme of study leading to the degree of Bachelor of Science with honours in Chemistry and Economics (combined) extends over four years but suitably qualified candidates will be exempted from the first year and be able to complete the scheme of study in three years.

COURSE REQUIREMENT

Four-year scheme for the degree with honours: for admission to the scheme of study passes in two approved subjects at advanced level are required. This requirement will normally be met by passes at advanced level in two of the following: chemistry, mathematics and physics, and a pass at ordinary level in the third; candidates without these qualifications may be considered.
For exemption from the first year of the four-year honours scheme passes at a high standard in three approved subjects at advanced level are normally required.
One pass should be in chemistry.
The *second* should be in mathematics (examined as one subject and including both pure and applied mathematics).
The *third* may be in any approved subject.
Alternatively, the *second* and *third* may be in mathematics examined as two subjects.

FOUR-YEAR SCHEME OF STUDY FOR THE DEGREE WITH HONOURS

First Year
Chemistry 1A *or* 1B
Mathematics 1A
Physics 1A

Second Year
Chemistry 2A
Economics 2A
Mathematics 2A

Third Year
Chemistry 3A
Economics 3A
Statistics 2A

Fourth Year
Chemistry 4A
Economics 4A

Ordinary Degree
Students who are unable to complete the honours degree scheme may be awarded the ordinary degree, after three years' residence, on completion of the required courses for the first three years of the honours degree scheme, and after passing the third-year examinations in the two main subjects and the second-year examination in one other subject.

Chemistry-Fuel Science

The scheme of study leading to the degree of Bachelor of Science with honours in Chemistry and Fuel Science (combined) extends over four years, but suitably qualified candidates will be exempted from the first year and be able to complete the scheme of study in three years.

COURSE REQUIREMENT

Four-year scheme for the degree with honours: for admission to the scheme of study passes in two approved subjects at advanced level are required. This requirement will normally be met by passes at advanced level in two of the following: chemistry, mathematics and physics, and a pass at ordinary level in the third; candidates without these qualifications may be considered. Candidates not presenting mathematics at advanced level should have some knowledge of elementary calculus as a background to courses in chemistry.

For exemption from the first year of the four-year honours scheme passes at a high standard in three approved subjects at advanced level are normally required.
One pass should be in chemistry.
The *second* should be in mathematics (which, if examined as one subject, must include both pure and applied mathematics).
The *third* should be in physics.

FOUR-YEAR SCHEME OF STUDY FOR THE DEGREE WITH HONOURS

First Year
Chemistry 1A *or* 1B
Mathematics 1A
Physics 1A

Second Year
Chemistry 2A
Fuel science 2A
Mathematics 2A

Third Year
Chemistry 3A
Fuel science 3A
Physics 2B

Fourth Year
Chemistry 4A (Physical)
Fuel science 4A

Ordinary Degree
Students who are unable to complete the honours degree scheme may be awarded the ordinary degree, after three years' residence, on completion of the required courses for the first three years of the honours degree scheme, and after passing the third-year examinations in the two main subjects and the second-year examination in one other subject.

Chemistry-History of Science and/or Philosophy

The schemes of study leading to the degree of Bachelor of Science with honours in Chemistry and History of Science (combined), Chemistry and Philosophy (combined) and Chemistry and History of Science and Philosophy (combined) extend over four years but suitably qualified candidates will be exempted from the first year and be able to complete the scheme of study in three years.

COURSE REQUIREMENT

Four-year scheme for the degree with honours: for admission to the scheme of study passes in two approved subjects at advanced level are required. This requirement will normally be met by passes at advanced level in two of the following: chemistry, mathematics and physics, and a pass at ordinary level in the third; candidates without these qualifications may be considered. Candidates not presenting mathematics at advanced level should have some knowledge of elementary calculus as a background to courses in chemistry.

For exemption from the first year of the four-year honours scheme passes at a high standard in three approved subjects at advanced level are normally required.
One pass should be in chemistry.
The *second* should be in mathematics (examined as one subject and including both pure and applied mathematics) or physics.
The *third* may be in any approved subject.
Alternatively, the *second* and *third* may be in mathematics examined as two subjects.

FOUR-YEAR SCHEME OF STUDY FOR THE DEGREE WITH HONOURS

Commencing with a common course covering both history of science and philosophy in the second year, alternative courses in history of science *or* philosophy are available in the third (and carry through into the fourth) year; it is also possible to include courses in *both* history of science *and* philosophy in the third year, in which case a course in an ancillary subject is dropped from the scheme.

First Year
Chemistry 1A *or* 1B
Mathematics 1A
Physics 1A

Second Year
Chemistry 2A
History of science and philosophy 2A
Mathematics 2A *or* Physics 2B *or* Statistics 2A *or* a course in a subject approved by the Director of Combined Studies.

Third Year
Either
Chemistry 3A
Philosophy 3A *or* History of science 3B
Physics 2B *or* Statistics 2A *or* Mathematics 3A
or
Chemistry 3A
History of science and philosophy 3C

Fourth Year
Chemistry 4A (Inorganic); Chemistry 4A (Organic) *or* Chemistry 4A (Physical) may be offered if History of science is taken as the main subject.
Philosophy 4A *or* History of science 4B (depending on the option taken in the third year).

A course in elementary mathematics may be added to the scheme of study for those whose background in mathematics is inadequate.
The first-year course in physics (Physics 1A) will be included in the scheme of study for those candidates who have not passed physics at advanced level.

Ordinary Degree

Students who are unable to complete the honours degree scheme may be awarded the ordinary degree, after three years' residence, on completion of the required courses for the first three years of the honours degree scheme, and after passing the third-year examinations in the two main subjects and the second-year examination in one other subject.

Chemistry-Mathematics

The scheme of study leading to the degree of Bachelor of Science with honours in Chemistry and Mathematics (combined) extends over four years but suitably qualified candidates will be exempted from the first year and be able to complete the scheme of study in three years.

COURSE REQUIREMENT

Four-year scheme for the degree with honours: for admission to the scheme of study passes in two approved subjects at advanced level are required. This requirement will normally be met by passes at advanced level in two of the following: chemistry, mathematics and physics, and a pass at ordinary level in the third; candidates without these qualifications may be considered.

For exemption from the first year of the four-year honours scheme passes at a high standard in three approved subjects at advanced level are normally required.
One pass should be in chemistry.
The *second* should be in mathematics (examined as one subject and including both pure and applied mathematics).
The *third* should preferably be in physics.
Alternatively, the *second* and *third* may be in mathematics examined as two subjects.

FOUR-YEAR SCHEME OF STUDY FOR THE DEGREE WITH HONOURS

First Year
Chemistry 1A *or* 1B
Mathematics 1A
Physics 1A

Second Year
Chemistry 2A
Mathematics 2A
Earth sciences 2A *or* Economics 2A *or* History of science and philosophy 2A *or* Physics 2A or 2B *or* Statistics 2A *or* a course in a subject approved by the Director of Combined Studies.

Third Year
Chemistry 3A
Mathematics 3A
Earth sciences 2A *or* 3A *or* Economics 2A *or* 3A *or* History of science and philosophy 2A *or* Philosophy 3A *or* History of science 3B *or* Physics 2B *or* 3A *or* Statistics 2A *or* a second *or* third-year course in a subject approved by the Director of Combined Studies.

Fourth Year
Chemistry 4A (Physical)
Mathematics 4A

The first-year course in physics (Physics 1A) will normally be included in the scheme of study for those candidates who have not passed physics at advanced level.

Ordinary Degree

Students who are unable to complete the honours degree scheme may be awarded the ordinary degree, after three years' residence, on completion of the required courses for the first three years of the honours degree scheme, and after passing the third-year examinations in the two main subjects and the second-year examination in one other subject.

Chemistry-Physics

The scheme of study leading to the degree of Bachelor of Science with honours in Chemistry and Physics (combined) extends over four years but suitably qualified candidates will be exempted from the first year and be able to complete the scheme of study in three years.

COURSE REQUIREMENT

Four-year scheme for the degree with honours: for admission to the scheme of study passes in two approved subjects at advanced level are required. This requirement will normally be met by passes at advanced level in two of the following: chemistry, mathematics and physics, and a pass at ordinary level in the third; candidates without these qualifications may be considered Candidates not presenting mathematics at advanced level should have some knowledge to elementary calculus as a background to courses in chemistry.

For exemption from the first year of the four-year honours scheme passes at a high standard in three approved subjects at advanced level are normally required.
One pass should be in chemistry.
The *second* should be in mathematics (which, if examined as one subject, must include both pure and applied mathematics).
The *third* should be in physics.

FOUR-YEAR SCHEME OF STUDY FOR THE DEGREE WITH HONOURS

First Year
Chemistry 1A *or* 1B
Mathematics 1A
Physics 1A

Second Year
Chemistry 2A
Physics 2A
Mathematics 2A

Third Year
Chemistry 3A
Physics 3A
Mathematics 3A

Fourth Year
Chemistry 4A (Physical)
Physics 4A

Ordinary Degree

Students who are unable to complete the honours degree scheme may be awarded the ordinary degree, after three years' residence, on completion of the required courses for the first three years of the honours degree scheme, and after passing the third-year examinations in the two main subjects and the second-year examination in one other subject.

Chemistry-Physiology

The scheme of study leading to the degree of Bachelor of Science with honours in Chemistry and Physiology (combined) extends over four years but suitably qualified candidates will be exempted from the first year and be able to complete the scheme in three years.

COURSE REQUIREMENT

Four-year scheme for the degree with honours: for admission to the scheme of study passes in two approved subjects at advanced level are required. This requirement will normally be met by passes at advanced level in two of the following: chemistry, physics and zoology (or biology) and a pass at ordinary level in the third; candidates without these qualifications may be considered. Candidates not presenting mathematics at advanced level should have some knowledge of elementary calculus as a background to courses in chemistry.

For exemption from the first year of the four-year honours scheme passes at a high standard in three approved subjects at advanced level are normally required.
One pass should be in chemistry.
The *second* should be in physics.
The *third* should be in zoology, biology or mathematics.

FOUR-YEAR SCHEME OF STUDY FOR THE DEGREE WITH HONOURS

First Year
Chemistry 1A *or* 1B
Physics 1A *or* Biophysics 1A
Zoology 1A *or* Biology 1A *or* Mathematics 1A

Second Year
Chemistry 2A
Physiology 2A
Biochemistry 2A

Third Year
Chemistry 3A
Physiology 3A
Biochemistry 3A

Fourth Year
Chemistry 4A (Organic)
Physiology 4A

Students whose background in mathematics is inadequate may be required to attend a course in elementary mathematics.

Ordinary Degree

Students who are unable to complete the honours degree scheme may be awarded the ordinary degree, after three years' residence, on completion of the required courses for the first three years of the honours degree scheme, and after passing the third-year examinations in the two main subjects and the second-year examination in one other subject.

Computational Science-Earth Sciences

The scheme of study leading to the degree of Bachelor of Science with honours in Computational Science and Earth Sciences (combined) extends over four years but suitably qualified candidates will be exempted from the first year and be able to complete the scheme of study in three years.

COURSE REQUIREMENT

Four-year scheme for the degree with honours: for admission to the scheme of study passes in two approved subjects at advanced level are required. This requirement will normally be met by passes at advanced level in two of the following: chemistry, mathematics and physics, and a pass at ordinary level in the third; candidates without these qualifications may be considered.

For exemption from the first year of the four-year honours scheme passes at a high standard in three approved subjects at advanced level are normally required.
One pass should be in physics.
The *second* should be in mathematics (which, if examined as one subject, should include both pure and applied mathematics).
The *third* should be in any approved subject.
Alternatively, the *second* and *third* may be in mathematics examined as two subjects.

FOUR-YEAR SCHEME OF STUDY FOR THE DEGREE WITH HONOURS

First Year
Mathematics 1A
Physics 1A
A first-year course in a subject approved by the Director of Combined Studies; this will normally be in chemistry.

Second Year
Computational science 2A
Earth sciences 2B
Mathematics 2A

Third Year
Computational science 3A
Earth sciences 3B
Mathematics 3A or a second- or third-year course in another subject approved by the Director of Combined Studies.

Fourth Year
Computational science 4A
Earth sciences 4B

The courses in earth sciences will include field work during term and vacations.

Ordinary Degree

Students who are unable to complete the honours degree scheme may be awarded the ordinary degree, after three years' residence, on completion of the required courses for the first three years of the honours degree scheme, and after passing the third-year examinations in the two main subjects and the second-year examination in one other subject.

Computational Science-Mathematics

The scheme of study leading to the degree of Bachelor of Science with honours in Computational Science and Mathematics (combined) extends over four years but suitably qualified candidates will be exempted from the first year and be able to complete the scheme of study in three years.

COURSE REQUIREMENT

Four-year scheme for the degree with honours: for admission to the scheme of study passes in two approved subjects at advanced level are required. This requirement will normally be met by passes at advanced level in mathematics and one other approved subject.

For exemption from the first year of the four-year honours scheme passes at a high standard in three approved subjects at advanced level are normally required.
One pass should be in mathematics (examined as one subject and including both pure and applied mathematics).
The *second* and *third* may be in any approved subjects.
Alternatively, the *first* and *second* may be in mathematics examined as two subjects.

FOUR-YEAR SCHEME OF STUDY FOR THE DEGREE WITH HONOURS

First Year
Mathematics 1A
First-year courses in two other subjects approved by the Director of Combined Studies.

Second Year
Computational science 2A
Mathematics 2A
A first or second-year course in a subject approved by the Director of Combined Studies *or* Statistics 2A.

Third Year
Computational science 3A
Mathematics 3A
A second-year course in a subject in which a first-year course was taken in the first or second year, or a third-year course in a subject in which a second-year course was taken in the second year.

Fourth Year
Computational science 4A
Mathematics 4A

Ordinary Degree

Students who are unable to complete the honours degree scheme may be awarded the ordinary degree, after three years' residence, on completion of the required courses for the first three years of the honours degree scheme, and after passing the third-year examinations in the two main subjects and the second-year examination in one other subject.

Computational Science-Physics

The scheme of study leading to the degree of Bachelor of Science with honours in Computational Science and Physics (combined) extends over four years, but suitably qualified candidates will be exempted from the first year and be able to complete the scheme of study in three years.

COURSE REQUIREMENT

Four-year scheme for the degree with honours: for admission to the scheme of study passes in two approved subjects at advanced level are required. This requirement will normally be met by passes at advanced level in mathematics and physics.

For exemption from the first year of the four-year honours scheme passes at a high standard in three approved subjects at advanced level are normally required.
One pass should be in physics.
The *second* should be in mathematics (examined as one subject and including both pure and applied mathematics).
The *third* may be in any approved subject.
Alternatively, the *second* and *third* may be in mathematics examined as two subjects.

FOUR-YEAR SCHEME OF STUDY FOR THE DEGREE WITH HONOURS

First Year
Mathematics 1A
Physics 1A
A first-year course in a subject approved by the Director of Combined Studies.

Second Year
Computational science 2A
Physics 2A
Mathematics 2A

Third Year
Computational science 3A
Physics 3A
Mathematics 3A

Fourth Year
Computational science 4A
Physics 4A

Ordinary Degree

Students who are unable to complete the honours degree scheme may be awarded the ordinary degree, after three years' residence, on completion of the required courses for the first three years of the honours degree scheme, and after passing the third-year examinations in the two main subjects and the second-year examination in one other subject.

Earth Sciences-Mathematics

The scheme of study leading to the degree of Bachelor of Science with honours in Earth Sciences and Mathematics (combined) extends over four years but suitably qualified candidates will be exempted from the first year and be able to complete the scheme of study in three years.

COURSE REQUIREMENT

Four-year scheme for the degree with honours: for admission to the scheme of study passes in two approved subjects at advanced level are required. This requirement will normally be met by passes at advanced level in two of the following: chemistry, mathematics and physics, and a pass at ordinary level in the third; candidates without these qualifications may be considered.

For exemption from the first year of the four-year honours scheme passes at a high standard in three approved subjects at advanced level are normally required.
One pass should be in physics.
The *second* should be in mathematics (examined as one subject, and including both pure and applied mathematics).
The *third* may be in any approved subject.
Alternatively, the *second* and *third* may be in mathematics examined as two subjects.

FOUR-YEAR SCHEME OF STUDY FOR THE DEGREE WITH HONOURS

First Year
Mathematics 1A
Physics 1A
A first-year course in a subject approved by the Director of Combined Studies; this will normally be in chemistry.

Second Year
Mathematics 2A
Earth sciences 2B
Chemistry 2D *or* Statistics 2A *or* a course in another subject approved by the Director of Combined Studies.

or

Mathematics 2A
Earth sciences 2A
Physics 2A*

* If Physics 2A is taken, an additional short course of lectures in geophysics must be included.

Third Year
Mathematics 3A
Earth sciences 3B
Physics 3A *or* Chemistry 2D *or* Statistics 2A *or* Earth sciences 3A*

Fourth Year
Mathematics 4A
Earth sciences 4B

Ordinary Degree

Students who are unable to complete the honours degree scheme may be awarded the ordinary degree, after three years' residence, on completion of the required courses for the first three years of the honours degree scheme, and after passing the third-year examinations in the two main subjects and the second-year examination in one other subject.

Field Work

Courses in Earth sciences will include field work during term and vacations.

Earth Sciences-Physics

The scheme of study leading to the degree of Bachelor of Science with honours in Earth Sciences and Physics (combined) extends over four years but suitably qualified candidates will be exempted from the first year and be able to complete the scheme of study in three years.

COURSE REQUIREMENT

Four-year scheme for the degree with honours: for admission to the scheme of study passes in two approved subjects at advanced level are required. This requirement will normally be met by passes at advanced level in two of the following: chemistry, mathematics and physics, and a pass at ordinary level in the third; candidates without these qualifications may be considered.

For exemption from the first year of the four-year honours scheme passes at a high standard in three approved subjects at advanced level are normally required.
One pass should be in physics.
The *second* should be in mathematics (which, if examined as one subject, must include both pure and applied mathematics).
The *third* may be in any approved subject.
Alternatively, the *second* and *third* may be in mathematics examined as two subjects.

FOUR-YEAR SCHEME OF STUDY FOR THE DEGREE WITH HONOURS

First Year
Mathematics 1A
Physics 1A
A first-year course in a subject approved by the Director of Combined Studies; this will normally be chemistry.

Second Year
Earth sciences 2A
Physics 2A†
Mathematics 2A

Third Year
Earth sciences 3B
Physics 3A
Mathematics 3A

* Earth sciences 3A can only be taken if the student has included Chemistry 1A in his first year (or has passed advanced level chemistry) and has taken Physics 2A in the second year of the scheme.
† An additional short course of lectures in geophysics will be included.

Fourth Year
Earth sciences 4B
Physics 4A

Courses in earth sciences will include field work during term and vacations.

Ordinary Degree

Students who are unable to complete the honours degree scheme may be awarded the ordinary degree, after three years' residence, on completion of the required courses for the first three years of the honours degree scheme, and after passing the third-year examinations in the two main subjects and the second-year examination in one other subject.

Economics-Statistics

The scheme of study leading to the degree of Bachelor of Science with honours in Economics and Statistics (combined) extends over four years but suitably qualified candidates may be exempted from the first year and be able to complete the scheme of study in three years.

COURSE REQUIREMENT

Four-year scheme: for admission to the scheme of study passes in two approved subjects at advanced level are required. This requirement will normally be met by passes at advanced level in mathematics and one other approved subject.

For exemption from the first year of the four-year scheme passes at a high standard in three approved subjects at advanced level are required.
One pass must be in mathematics (examined as one subject and including both pure and applied mathematics).
The *second* and *third* may be in any approved subjects.
Alternatively, the *first* and *second* may be in mathematics examined as two subjects.

FOUR-YEAR SCHEME OF STUDY FOR THE DEGREE WITH HONOURS

First Year
Mathematics 1A
First-year courses in two other subjects approved by the Director of Combined Studies.

Second Year
Economics 2A
Statistics 2A
Mathematics 2A

Third Year
Economics 3A
Statistics 3A
Mathematics 3A

Fourth Year
Economics 4A
Statistics 4A

Ordinary Degree

Students who are unable to complete the honours degree scheme may be awarded the ordinary degree, after three years' residence, on completion of the required courses for the first three years of the honours degree scheme, and after passing the third-year examinations in the two main subjects and the second-year examination in one other subject.

Food Science-Physiology

The scheme of study leading to the degree of Bachelor of Science with honours in Food Science and Physiology (combined) extends over four years but suitably qualified candidates will be exempted from the first year and be able to complete the scheme of study in three years.

COURSE REQUIREMENT

Four-year scheme for the degree with honours: for admission to the scheme of study passes in two approved subjects at advanced level are required. This requirement will normally be met by passes at advanced level in any two of the following: chemistry, physics, mathematics, and biology (or botany or zoology); candidates without these qualifications may be considered.

For exemption from the first year of the four-year honours scheme: passes at a high standard in three approved subjects at advanced level are normally required.

One pass should be in chemistry.
The *second* and *third* should be in two of the following: physics, mathematics, biology (or botany or zoology).

FOUR-YEAR SCHEME FOR THE DEGREE WITH HONOURS

First Year

First-year courses in three subjects approved by the Director of Combined Studies and appropriate to the student's background will be arranged on an individual basis.

Second Year

Food science 2B
Physiology 2A
Biochemistry 2A

Third Year

Food science 3B
Physiology 3A
Chemistry 3E or a course approved by the Director of Combined Studies.

Fourth Year

Food science 4A
Physiology 4A

Genetics-Zoology

The scheme of study leading to the degree of Bachelor of Science with honours in Genetics and Zoology (combined) extends over four years but suitably qualified candidates will be exempted from the first year and be able to complete the scheme of study in three years.

COURSE REQUIREMENT

Four-year scheme for the degree with honours: for admission to the scheme of study passes in two approved subjects at advanced level are required. This requirement will normally be met by passes at advanced level in two of the following: chemistry, physics and a biological subject (botany, zoology or biology) and a pass at ordinary level in the third; candidates without these qualifications may be considered.

For exemption from the first year of the four-year honours scheme passes at a high standard in three approved subjects at advanced level are normally required.
One pass should be in chemistry.
The *second* should be in zoology or biology.
The *third* should be in physics or mathematics.
Alternatively the *second* and *third* may be in botany *and* zoology.

FOUR-YEAR SCHEME OF STUDY FOR THE DEGREE WITH HONOURS

First Year
Zoology 1A
Chemistry 1A *or* 1B
Physics 1A *or* Biophysics 1A *or* Mathematics 1A *or* Botany 1A

Second Year
Zoology 2A
Biochemistry 2A
Bacteriology 2A *or* 2B *or* Botany 2A *or* Chemistry 2B

Third Year
Zoology 3A
Genetics 3A
Biochemistry 3A *or* Bacteriology 3A *or* Botany 3A

Fourth Year
Zoology 4A
Genetics 4A

Ordinary Degree

Students who are unable to complete the honours degree scheme may be awarded the ordinary degree, after three years' residence, on completion of the required courses for the first three years of the honours degree scheme, and after passing the third-year examinations in the two main subjects and the second-year examination in one other subject.

Field Work

The courses in zoology will include field work during term and one vacation course which may be held abroad.

Geography-Geology

The scheme of study leading to the degree of Bachelor of Science with honours in Geography and Geology (combined) extends over four years but suitably qualified candidates will be exempted from the first year and be able to complete the scheme of study in three years.

COURSE REQUIREMENT

Four-year scheme for the degree with honours: for admission to the scheme of study passes in two approved subjects at advanced level are required. This requirement will normally be met by passes at advanced level in geography and in one of the following: botany, biology, chemistry, physics, mathematics, zoology. Candidates without these qualifications may be considered.

For exemption from the first year of the four-year honours scheme passes at a high standard in three approved subjects at advanced level are normally required.
One pass should be in geography.
The *second* should be in biology, botany, chemistry or mathematics (which, if taken as one subject, must include both pure and applied mathematics).
The *third* may be in any approved subject.

FOUR-YEAR SCHEME OF STUDY FOR THE DEGREE WITH HONOURS

First Year

For those accepted, but not exempted from the whole of the first year, courses appropriate to background and interests will be arranged on an individual basis.

Second Year
Geography 2A
Geology 2A
Botany 2A *or* Chemistry 2D *or* Economics 2A *or* Mathematics 2A *or* a course in a subject approved by the Director of Combined Studies.

Third Year
Geography 3A
Geology 3A
Geology 3B *or* Economics 3A

Fourth Year
Geography 4A
Geology 4A

The courses in geology will include field work during term and vacations.

Ordinary Degree

Students who are unable to complete the honours degree scheme may be awarded the ordinary degree, after three years' residence, on completion of the required courses for the first three years of the honours degree scheme, and after passing the third-year examinations in the two main subjects and the second-year examination in one other subject.

Geography-Mathematics

The scheme of study leading to the degree of Bachelor of Science with honours in Geography and Mathematics (combined) extends over four years but suitably qualified candidates will be exempted from the first year and be able to complete the scheme of study in three years.

COURSE REQUIREMENT

Four-year scheme for the degree with honours: for admission to the scheme of study passes in geography and mathematics at advanced level are required.

For exemption from the first year of the four-year honours scheme passes at a high standard in three approved subjects at advanced level are normally required.
One pass should be in geography.
The *second* should be in mathematics (examined as one subject and including both pure and applied mathematics).
The *third* may be in any approved subject.
Alternatively, the *second* and *third* may be in mathematics examined as two subjects.

FOUR-YEAR SCHEME OF STUDY FOR THE DEGREE WITH HONOURS

First Year
Mathematics 1A
First-year courses in two other subjects approved by the Director of Combined Studies.

Second Year
Geography 2A
Mathematics 2A
A first-year course in a subject approved by the Director of Combined Studies *or* a second-year course in one of the subjects (other than mathematics) taken in the first year *or* Economics 2A *or* Statistics 2A.

Third Year
Geography 3A
Mathematics 3A
A second-year course in the subject in which a first-year course was taken in the first or second year *or* Economics 2A *or* 3A or Statistics 2A *or* a third-year course in a subject in which a second-year course was taken in the second year.

Fourth Year
Geography 4A
Mathematics 4A

Ordinary Degree

Students who are unable to complete the honours degree scheme may be awarded the ordinary degree, after three years' residence, on completion of the required courses for the first three years of the honours degree scheme, and after passing the third-year examinations in the two main subjects and the second-year examination in one other subject.

Mathematics-History of Science and/or Philosophy

The schemes of study leading to the degree of Bachelor of Science with honours in Mathematics and History of Science, Mathematics and Philosophy and Mathematics and History of Science and Philosophy extend over four years but suitably qualified candidates will be exempted from the first year and be able to complete the scheme of study in three years.

COURSE REQUIREMENT

Four-year scheme for the degree with honours: for admission to the scheme of study passes in two approved subjects at advanced level are required. This requirement will normally be met by passes at advanced level in mathematics and one other subject, preferably chemistry or physics in the case of those candidates taking a combination including history of science.

For exemption from the first year of the four-year honours scheme passes at a high standard in three approved subjects at advanced level are normally required.
One pass should be in mathematics (examined as one subject and including both pure and applied mathematics).
The *second* and *third* may be in any approved subjects.
Alternatively, the *first* and *second* may be in mathematics examined as two subjects.
Candidates taking a combination including history of science should preferably have a pass in chemistry or physics.

FOUR-YEAR SCHEME OF STUDY FOR THE DEGREE WITH HONOURS

Commencing with a common course covering both history of science and philosophy in the second year, alternative courses in history of science *or* philosophy are available in the third (and carry through into the fourth) year; it is also possible to include courses in both history of science *and* philosophy in the third year, in which case a course in an ancillary subject is dropped from the scheme. When the history of science option, or the history of science and philosophy option, is selected, an experimental science (preferably physics) will normally be included in the scheme of study and a school background in an experimental science is desirable.

First Year
Mathematics 1A
First-year courses in two other subjects approved by the Director of Combined Studies.

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Second Year
Mathematics 2A
History of science and philosophy 2A
A course in a subject approved by the Director of Combined Studies.

Third Year
Either
Mathematics 3A
Philosophy 3A *or* History of science 3B
A second *or* third-year course in a subject approved by the Director of Combined Studies

or
Mathematics 3A
History of science and philosophy 3C

Fourth Year
Mathematics 4A
Philosophy 4A *or* History of science 4B (depending on the option taken in the third year).

Ordinary Degree

Students who are unable to complete the honours degree scheme may be awarded the ordinary degree, after three years' residence, on completion of the required courses for the first three years of the honours degree scheme, and after passing the third-year examinations in the two main subjects and the second-year examination in one other subject.

Mathematics-Physics

The scheme of study leading to the degree of Bachelor of Science with honours in Mathematics and Physics (combined) extends over four years but suitably qualified candidates will be exempted from the first year and be able to complete the scheme of study in three years.

COURSE REQUIREMENT

Four-year scheme for the degree with honours: for admission to the scheme of study passes in two approved subjects at advanced level are required. This requirement will normally be met by passes at advanced level in mathematics and physics.

For exemption from the first year of the four-year honours scheme passes at a high standard in three approved subjects at advanced level are normally required.

One pass should be in physics.
The *second* should be in mathematics (examined as one subject and including both pure and applied mathematics).
The *third* may be in any approved subject.
Alternatively, the *second* and *third* may be in mathematics examined as two subjects.

FOUR-YEAR SCHEME OF STUDY FOR THE DEGREE WITH HONOURS

First Year
Mathematics 1A
Physics 1A
A first-year course in a subject approved by the Director of Combined Studies.

Second Year
Mathematics 2A
Physics 2A
A first-year course in a subject approved by the Director of Combined Studies *or* a second-year course in the third subject taken in the first year *or* Earth sciences 2A *or* History of science and philosophy 2A *or* Statistics 2A.

Third Year
Mathematics 3A
Physics 3A
A second-year course in one of the subjects in which a first-year course was taken in the first or second year *or* Earth sciences 2A or 3B *or* History of science and philosophy 2A *or* Statistics 2A *or* a third-year course in one of the subjects in which a second-year course was taken in the second year.

Fourth Year
Mathematics 4A
Physics 4A

Ordinary Degree

Students who are unable to complete the honours degree scheme may be awarded the ordinary degree, after three years' residence, on completion of the required courses for the first three years of the honours degree scheme, and after passing the third-year examinations in the two main subjects and the second-year examination in one other subject.

Mathematics-Statistics

The scheme of study leading to the degree of Bachelor of Science with honours in Mathematics and Statistics (combined) extends over four years but suitably qualified candidates will be exempted from the first year and be able to complete the scheme of study in three years.

COURSE REQUIREMENT

Four-year scheme for the degree with honours: for admission to the scheme of study passes in two approved subjects at advanced level are required. This requirement will normally be met by passes at advanced level in mathematics and one other approved subject.

For exemption from the first year of the four-year honours scheme passes at a high standard in three approved subjects at advanced level are normally required.
One pass should be in mathematics (examined as one subject and including both pure and applied mathematics).
The *second* and *third* should be in any approved subjects.
Alternatively, the *first* and *second* may be in mathematics examined as two subjects.

FOUR-YEAR SCHEME OF STUDY FOR THE DEGREE WITH HONOURS

First Year
Mathematics 1A
First-year courses in two other subjects approved by the Director of Combined Studies.

Second Year
Mathematics 2A
Statistics 2A
A first-year course in a subject approved by the Director of Combined Studies *or* a second-year course in a subject in which a first-year course was taken in the first year *or* Economics 2A *or* Earth sciences 2B *or* History of science and philosophy 2A *or* Computational science 2A.

Third Year
Mathematics 3A
Statistics 3A
A second-year course in a subject in which a first-year course was taken in the first or second year, *or* a third-year course in a subject in which a second-year course was taken in the second year.

Fourth Year
Mathematics 4A
Statistics 4A

Ordinary Degree

Students who are unable to complete the honours degree scheme may be awarded the ordinary degree, after three years' residence, on completion of the required courses for the first three years of the honours degree scheme, and after passing the third-year examinations in the two main subjects and the second-year examination in one other subject.

Mining Geology

The scheme of study leading to the degree of Bachelor of Science with honours in Mining and Geology (combined), may extend over four years, but suitably qualified candidates will be exempt from the first year and should be able to complete the scheme of study in three years.

COURSE REQUIREMENT

Four-year scheme for the degree with honours: for admission to the scheme of study, passes in three approved subjects at advanced level are normally required. These passes may be in any approved subject but candidates should have passes in mathematics, physics and chemistry at least at ordinary level.

For exemption from the first year of the four-year honours scheme, passes at a high standard in geology, mathematics and chemistry are normally required and in addition a pass in physics at ordinary level, at least, is required.

FOUR-YEAR SCHEME OF STUDY FOR THE DEGREE WITH HONOURS

First Year

Applied mineral science 1F
Chemistry 1A
Geology 1C
Mathematics 1A

Courses in other approved subjects may be substituted for any of the above subjects in which the student has already reached a satisfactory standard.

Second Year

Mining 2A
Geology 2D
Mathematics 2B

Third Year

Mining 3A
Geology 3D
Management studies 1
Mathematics 3B

Fourth Year

Mining 4A
Geology 4D

The scheme of study will include appropriate field work and technical visits during term and vacations.

Pharmacology-Physiology

The scheme of study leading to the degree of Bachelor of Science with honours in Pharmacology and Physiology (combined) extends over four years but suitably qualified candidates will be exempted from the first year and be able to complete the scheme of study in three years.

COURSE REQUIREMENT

Four-year scheme for the degree with honours: for admission to the scheme of study passes in two approved subjects at advanced level are required. This requirement will normally be met by passes at advanced level in any two of the following: chemistry, physics, mathematics and zoology (or biology) and a pass at ordinary level in the others; candidates without these qualifications may be considered.

For exemption from the first year of the four-year honours scheme passes at a high standard in three approved subjects at advanced level are normally required.
One pass should be in chemistry.
The *second* and *third* should be in two of the following: physics, mathematics, zoology (or biology).

FOUR-YEAR SCHEME OF STUDY FOR THE DEGREE WITH HONOURS

First Year

Chemistry 1A *or* 1B
Physics 1A *or* Biophysics 1A
Zoology 1A *or* Biology 1A *or* Mathematics 1A

Second Year

Pharmacology 2A
Physiology 2A
Biochemistry 2A

Students intending to take Genetics 3A will be required to attend, in the second year, the classes in Genetics provided in Botany 2A and Zoology 2A. These extra classes are expected to amount to eight lectures and three 3-hour practical classes in the spring term.

Third Year

Pharmacology 3A
Physiology 3A
Biochemistry 3A *or* Chemistry 3E *or* Genetics 3A

Fourth Year

Pharmacology 4A
Physiology 4A

Those whose background in mathematics is inadequate may be required to attend a course in elementary mathematics in addition to the normal requirements of the scheme of study.

Ordinary Degree

Students who are unable to complete the honours degree scheme may be awarded the ordinary degree, after three years' residence, on completion of the required courses for the first three years of the honours degree scheme, and after passing the third-year examinations in the two main subjects and the second-year examination in one other subject.

Physics-Electronic Engineeri g

The scheme of study leading to the degree of Bachelor of Science with honours in Physics and Electronic Engineering (combined) extends over four years, but suitably qualified candidates will be exempted from the first year and be able to complete the scheme of study in three years.

COURSE REQUIREMENT

Four-year scheme for the degree with honours: for admission to the scheme of study passes in two approved subjects at advanced level are required. This requirement will normally be met by passes at advanced level in mathematics and physics.

For exemption from the first year of the four-year honours scheme the minimum normal requirements are passes at advanced level in mathematics and in physics both at a high standard. Exceptionally, students may be admitted to the second year who have reached a sufficiently high standard in the first year of other schemes of study which provide a suitable basis for this scheme, and these will include electrical and electronic engineering and physics.

FOUR-YEAR SCHEME OF STUDY FOR THE DEGREE WITH HONOURS

First Year

Mathematics 1A
Physics 1A
A first-year course in a subject approved by the Director of Combined Studies.

Second Year

Physics 2C
Electronic engineering 2C
Mathematics 2PX

Third Year

Physics 3C
Electronic engineering 3C
Mathematics 3PX

Fourth Year

Physics 4C
Electronic engineering 4C

Ordinary Degree

Students who are unable to complete the honours degree scheme may be awarded the ordinary degree, after three years' residence, on completion of the required courses for the first three years of the honours degree scheme, and after passing the third-year examinations in the two main subjects and the second-year examination in mathematics.

Physics-History of Science or Philosophy

The schemes of study leading to the degree of Bachelor of Science with honours in Physics and History of Science (combined) or Physics and Philosophy (combined) extend over four years but suitably qualified candidates will be exempted from the first year and be able to complete the scheme of study in three years.

COURSE REQUIREMENT

Four-year scheme for the degree with honours: for admission to the scheme of study passes in two approved subjects at advanced level are required. This requirement will normally be met by passes at advanced level in mathematics and physics.

For exemption from the first year of the four-year honours scheme passes at a high standard in three approved subjects at advanced level are normally required.
One pass should be in physics.
The *second* should be in mathematics (examined as one subject and including both pure and applied mathematics).
The *third* may be in any approved subject.
Alternatively, the *second* and *third* may be in mathematics examined as two subjects.

FOUR-YEAR SCHEME OF STUDY FOR THE DEGREE WITH HONOURS

Commencing with a common course covering both history of science and philosophy in the second year, alternative courses in history of science *or* philosophy are available in the third (and carry through into the fourth) year.

First Year

Mathematics 1A
Physics 1A
A first-year course in one other subject approved by the Director of Combined Studies.

Second Year

Physics 2A
History of science and philosophy 2A
Mathematics 2A

Third Year

Physics 3A
Philosophy 3A *or* History of science 3B
Mathematics 3A

Fourth Year

Physics 4A
Philosophy 4A *or* History of science 4B

Ordinary Degree

Students who are unable to complete the honours degree scheme may be awarded the ordinary degree, after three years' residence, on completion of the required courses for the first three years of the honours degree scheme, and after passing the third-year examinations in the two main subjects and the second-year examination in one other subject.

Physics-Statistics

The scheme of study leading to the degree of Bachelor of Science with honours in Physics and Statistics (combined) extends over four years but suitably qualified candidates will be exempted from the first year and be able to complete the scheme of study in three years.

COURSE REQUIREMENT

Four-year scheme for the degree with honours: for admission to the scheme of study passes in two approved subjects at advanced level are required. This requirement will normally be met by passes at advanced level in mathematics and physics.

For exemption from the first year of the four-year honours scheme passes at a high standard in three approved subjects at advanced level are normally required.

One pass should be in physics.

The *second* should be in mathematics (examined as one subject and including both pure and applied mathematics).

The *third* may be in any approved subject.

Alternatively, the *second* and *third* may be in mathematics examined as two subjects.

FOUR-YEAR SCHEME OF STUDY FOR THE DEGREE WITH HONOURS

First Year

Mathematics 1A
Physics 1A
A first-year course in one other subject approved by the Director of Combined Studies.

Second Year

Physics 2A
Statistics 2A
Mathematics 2A

Third Year

Physics 3A
Statistics 3A
Mathematics 3A

Fourth Year

Physics 4A
Statistics 4A

Ordinary Degree

Students who are unable to complete the honours degree scheme may be awarded the ordinary degree, after three years' residence, on completion of the required courses for the first three years of the honours degree scheme, and after passing the third-year examinations in the two main subjects and the second-year examination in one other subject.

Physiology-Zoology

The scheme of study leading to the degree of Bachelor of Science with honours in Physiology and Zoology (combined) extends over four years but suitably qualified candidates will be exempted from the first year and be able to complete the scheme of study in three years.

COURSE REQUIREMENT

Four-year scheme for the degree with honours: for admission to the scheme of study passes in two approved subjects at advanced level are required. This requirement will normally be met by passes at advanced level in any two of the following: chemistry, physics, mathematics and a biological subject (zoology or biology) and a pass at ordinary level in the others; candidates without these qualifications may be considered.

For exemption from the first year of the four-year honours scheme passes at a high standard in three approved subjects at advanced level are normally required.

One pass should be in chemistry.
The *second* should be in zoology or biology.
The *third* should be in physics or mathematics.

FOUR-YEAR SCHEME OF STUDY FOR THE DEGREE WITH HONOURS

First Year
Three of the following:
Chemistry 1A *or* 1B
Physics 1A
Biophysics 1A
Zoology 1A
Mathematics 1A *or* 1Z

Second Year
Physiology 2A
Zoology 2A
Biochemistry 2A

Third Year
Physiology 3A
Zoology 3A
Biochemistry 3A *or* a course in another subject approved by the Director of Combined Studies.

Fourth Year
Physiology 4A
Zoology 4A

Those whose background in mathematics is inadequate may be required to attend a course in elementary mathematics in addition to the normal requirements of the scheme of study.

Ordinary Degree

Students who are unable to complete the honours degree scheme may be awarded the ordinary degree, after three years' residence, on completion of the required courses for the first three years of the honours degree scheme, and after passing the third-year examinations in the two main subjects and the second-year examination in one other subject.

Field Work

The courses in Zoology will include field work during term and one vacation course which may be held abroad.

G100

Prescribed Schemes of Study for the Degree of Master of Science

FACULTY OF SCIENCE

Clinical Psychology

This scheme is given by the Departments of Psychology and Psychiatry; applications for admission should be made to the head of the Department of Psychology.

This is a two-year scheme, the first year of which is full-time, with supervision and with laboratory facilities, and the second year part-time, with supervision and without laboratory facilities, for approved graduates with an honours degree in psychology, either as a single subject or as a principal subject in a combined studies scheme.

Candidates accepted under the provisions of article 14 of the Ordinance will proceed by attending a course of advanced study which will include:

(a) formal instruction in the following subjects:

Neuroanatomy (including practical work) or Neurophysiology and neuropharmacology (including practical work)	approximately 50 hours
Neurology	approximately 15 hours
Clinical psychiatry	approximately 200 hours
Clinical psychology (including diagnostic, therapeutic and research methods)	approximately 200 hours

(b) administration of psychological tests under supervision

(c) a psychological investigation submitted in the form of a dissertation

(d) in each year of the course candidates will be required to carry out practical work in an approved hospital.

The examination will consist of five papers of 3 hours each and an assessment of the dissertation and practical work undertaken during the course. Two of the papers will be taken at the end of the first year of study, and will form part of the examination for the degree. In addition, departmental examinations will be taken at the end of the first year in neuroanatomy or neurophysiology and performance in these will be taken into account when assessing the candidate's performance in the remaining examinations at the end of the course. An oral examination may be given if required by the examiners.

Electronic Computation

This scheme is given by the Department of Computational Science in the School of Mathematics. It extends over a minimum of one calendar year.
Candidates accepted under article 14 of the Ordinance may proceed by attending a scheme of advanced study which will include:

(a) approximately 70 lectures on computing systems and programming languages, numerical computation and basic information structures

(b) four courses of approximately twenty lectures each selected from one or more of the following subject areas:

Numerical analysis
Operational research
Computing systems
Programming languages
Non-numerical analysis

(c) practical instruction in computer programming
(d) the preparation of a short dissertation on a particular topic.

The examination will normally consist of three written papers of three hours each, an assessment of practical work and of the dissertation and, if the examiners require it, an oral examination.

Engineering Geology and Geotechnics

This scheme is arranged by the Departments of Earth Sciences, Civil Engineering and Mining and Mineral Sciences. Applications for admission should be made to the secretary of the Department of Earth Sciences.

The scheme is designed for graduates in civil engineering or in earth sciences or geology who are interested in the rapidly expanding fields of engineering geology, soil mechanics and allied subjects. Suitably qualified graduates in two main subjects (combined), with earth sciences or geology as a principal subject, will also be considered. The scheme extends over a minimum of one calendar year.

Candidates accepted under the provisions of article 14 of the Ordinance may proceed by:

(a) attending a course of about 20 introductory lectures, which will cover the following topics:

For graduates in earth sciences or geology:
Elements of concrete technology
Foundation problems of basic civil engineering structures
Elements of soil mechanics.
For graduates in civil engineering:
Petrology
Structural geology.

(b) attending a course of advanced study of about 125 lectures, together with seminars and colloquia, covering the following topics:

Soil mechanics	approximately 30 lectures
Rock mechanics	approximately 15 lectures
Surveying and photogrammetry	approximately 15 lectures
Hydrology	approximately 25 lectures
Engineering geology	approximately 20 lectures
Applied geophysics	approximately 20 lectures

(c) attending a course of practical work in the laboratory and in the field

(d) carrying through a project on a field or experimental problem and preparing a short dissertation.

The examination will normally consist of three written papers, an assessment of the dissertation, and, if the examiners require it, an oral examination.

Exploitation of Materials

For details of the scheme of study, see entry under Faculty of Applied Science, page G109.

Geochemistry

This scheme is given by the Department of Earth Sciences.

The scheme is designed for graduates in the geological and/or chemical sciences, or in physics with an adequate background in geology and chemistry. It extends over a minimum of one calendar year.

Candidates accepted under the provisions of article 14 of the Ordinance, may proceed by:

(a) attending a course of advanced study including about 100 lectures, together with seminars and colloquia; in 1971-72 lectures on the following will be offered*:

Special topics in geochemistry	approximately 30 lectures
Geochemical and mineralogical techniques	approximately 30 lectures
Geochemical processes and principles	approximately 40 lectures

(b) attending a course of practical work extending over 25 weeks

(c) carrying through and preparing a short dissertation on an individual project involving some of the techniques included in the course of advanced study.

The examination will normally consist of written papers and assessment of the dissertation and of other work undertaken during the course.

Geophysics

This scheme is given by the Department of Earth Sciences in co-operation with the Department of Mining and Mineral Sciences; applications for admission to the course should be made in the first instance to the secretary of the Department of Earth Sciences.

The scheme is designed for graduates in physics, earth sciences or geology, mining, or an appropriate combination of two main subjects. Candidates with other qualifications will be considered. The scheme extends over a minimum of one calendar year.

Candidates accepted under the provisions of article 14 of the Ordinance will proceed by:

(a) attending a scheme of advanced study which will include about 160 lectures on the following topics:

(i) General introduction to geophysics and its application in prospecting and earth structure investigation
(ii) Gravitational, magnetic, electrical, seismic, radioactive and thermal methods of
(iii) Geodynamics

(b) attending a course of practical work

(c) carrying through an individual project on some aspect of geophysics.

The examination will consist of three written papers of 3 hours each and an assessment of the dissertation relating to the project on some aspect of geophysics.

For details of postgraduate diploma in applied geophysics, see page G118.

Mathematics

This scheme is given by the School of Mathematics. It extends over a minimum of one calendar year.

Candidates accepted under the provisions of article 14 of the Ordinance may proceed by:

(a) attending an approved course of advanced study, of not less than six hours a week for one session, in a topic or topics of pure mathematics

and

(b) preparing a short dissertation on a designated mathematical topic.

In 1971-72 lectures on the following topics in pure mathematics will be offered:

Algebra
Mathematical logic
Analysis

* Candidates may also be required to attend additional lectures in the Department of Earth Sciences and/or other departments.

The examination will normally consist of three written papers, an assessment of the dissertation and, if the examiners require it, an oral examination.

Candidates accepted for the course in pure mathematics will be encouraged to attend, on a non-examinable basis, a course of lectures in another branch of mathematics or related subject.

Medical Physics

This scheme is given by the Department of Medical Physics and will extend over two calendar years starting in the October of alternate years. It is intended in particular for graduates in physics working in approved hospital departments or similar institutions in the north of England. The lectures will be given on one day a week to enable attendance under a day-release arrangement. Candidates accepted under the provisions of article 14 of the Ordinance will proceed by attending a course of advanced study consisting of:

1. A series of approximately 120 lectures on the following topics:
   Radiation physics and dosimetry—approximately 30 lectures
   Anatomy and physiology—approximately 15 lectures
   Physics in radiotherapy and diagnosis—approximately 30 lectures
   Radiobiology; radiation hazards—approximately 20 lectures
   Medical electronics; computer techniques—approximately 25 lectures.
2. Specified practical work.
3. Carrying through and preparing a short dissertation on a selected individual project. The practical work and project will be carried out under supervision in the candidate's own department.

The examination will normally consist of three written papers, an assessment of the dissertation, the specified practical work and any other work presented during the course, and, if the examiners require it, an oral examination.

Physics

(For the scheme in Exploitation of Materials, given by the Departments of Ceramics, Mechanical Engineering, Metallurgy and Physics, see page G109.)

This scheme is given by the Department of Physics. It extends over a minimum of one calendar year.

Candidates accepted under the provisions of article 14 of the Ordinance may proceed by:

(a) attending a course of advanced study including about 100 lectures; in 1971-72 these will consist of about 50 lectures on quantum mechanics, together with about 50 lectures on *either* (i) the electron theory of solids and special topics in solid state physics (e.g. ferromagnetism, low temperature phenomena, low temperature techniques)
or (ii) high-energy particles: including a survey of high-energy phenomena and methods and principles of experimentation in this field.

(b) carrying out project work in experimental or theoretical physics

(c) preparing a short dissertation on a particular topic.

The examination will normally consist of written papers and assessment of the dissertation and of other work undertaken during the course.

Combustion and Explosion

This scheme is administered by the Graduate Centre for Studies in Combustion and Explosion composed of members of the Departments of Physical Chemistry, Mechanical Engineering and Fuel Science. Applications for admission to the scheme should be made to the Deputy Director of the Centre, Dr. A. S. Leah, Department of Mechanical Engineering.

This scheme is suitable for graduates in applied mathematics, physics, chemistry, mechanical engineering, fuel science, and chemical engineering. It extends over a minimum of one calendar year.

Candidates accepted under the provisions of article 14 of the Ordinance may proceed by attending a course of advanced study which will include:

(a) a course of introductory lectures designed to provide graduates in mechanical engineering and applied mathematics with the necessary basic chemical background, or to provide graduates in chemistry with a background in fluid mechanics and heat transfer. These lectures will be attended by all candidates, some of the lectures being treated as revision of work previously covered.

(b) a selection, totalling about 100 lectures, from courses on the following topics:
Chemistry of combustion processes
Chain reactions
Experimental methods for investigating combustion processes
Theory of thermal explosion and decomposition of explosive solids
Detonation and shock
Properties of high temperature gases and plasmas in equilibrium
Structure, mechanism and properties of gaseous flames
Electrical properties of flames
Heat transfer from flames
Heterogeneous combustion
Aerodynamics of combustion
Engine combustion phenomena
Hazards associated with combustion processes and their prevention

(c) seminar and project work on the lecture courses

d) practical work consisting of:
A laboratory course of advanced experiments in the field of combustion and explosion
Electronic computation

(e) an individual project, generally experimental, on some aspect of the science of combustion and explosion, and the preparation of a dissertation upon it.

The examination will consist of an assessment of the candidate's written and experimental work during the course and of his dissertation; an oral examination may be required.

Statistics

This scheme is given by the Department of Statistics in the School of Mathematics.

The scheme is designed for graduates in mathematics (whose course of study has included some statistics) and for graduates with other degrees who have studied mathematics and statistics to a suitable level. It extends over a minimum of one calendar year.

Candidates accepted under the provisions of article 14 of the Ordinance may proceed by advanced study consisting of:

(a) attendance at about 120 lectures on the following subjects:
experimental design and analysis
applied probability and stochastic processes
statistical inference
multivariate analysis
application of computers to statistical calculations

b) the completion of class work involving statistical calculations

(c) the preparation of a short dissertation on a designated topic.

The examination will normally consist of three written papers of three hours each, and an assessment of the candidate's work throughout the course.

Steroid Endocrinology

The scheme of advanced study leading to the degree of Master of Science by examination in Steroid Endocrinology is given in the Division of Steroid Endocrinology in the Department of Chemical Pathology, and extends over one calendar year, commencing in October. The course is intended for graduates in chemistry, biochemistry and the biological sciences, including medicine, and will provide theoretical and practical knowledge of steroid endocrinology as a basis for medical, pharmaceutical and agricultural research and for clinical biochemistry. Candidates accepted under the provisions of article 14 of the Ordinance will proceed by attending a course of advanced study consisting of:

1. A series of approximately 100 lectures, including at least 10 lecture-demonstrations, by the staff of the Division of Steroid Endocrinology and the Department of Chemical Pathology, and by invited speakers from other departments in the University and from the pharmaceutical industry

2. Weekly tutorials designed primarily to develop the students' critical judgment of published experimental data

3. A series of demonstrations and practical exercises in specialised techniques relevant to research and clinical investigations in steroid endocrinology

4. Attendance at the postgraduate seminars in chemical pathology (20 per year)

5. Practical instruction and laboratory exercises in the estimation of steroids of biological and clinical significance

6. A research problem on which a dissertation will be presented.

The examination will consist of:

(a) three written papers consisting of a multiple-choice section and questions on all aspects of the theoretical and practical course and on subjects outside the lectures but relevant to the field of steroid endocrinology

(b) an assessment of the dissertation on a research problem in the field of steroid endocrinology

(c) an assessment of the students' progress during the year.

Colour Chemistry

The scheme is arranged by the Department of Colour Chemistry and Dyeing and application for admission should be made to the head of that Department.

Candidates accepted under the provisions of article 14 of the Ordinance must normally hold a first- or second-class honours degree in science or an approved branch of applied science such as chemical engineering. The scheme extends over a minimum of one calendar year.

The following courses are available in the Departments of Colour Chemistry and Dyeing and Textile Industries:

In the Department of Colour Chemistry and Dyeing

1. The chemistry of colouring matters (approximately 48 lectures).
2. The absorption of colouring matters by substrates (approximately 48 lectures).
3. Modern techniques in colour chemistry and the colouring of materials (a practical course lasting one term).
4. Specialist lectures in such subjects as pigments, colour measurement, photo-chemistry.

In the Department of Textile Industries

5. The molecular structure and reactivity of natural and man-made fibres and polymers (approximately 48 lectures).
6. Modern techniques used in the study of fibres and polymers for fibre production, e.g. conventional and thin-film chromatography, deuterium exchange, electrophoresis, isotope techniques, infra-red absorption, light scattering, amino-acid analysis, X-ray and electron diffraction, light and electron microscopy, electron spin resonance, ultra-centrifugation (approximately 48 lectures and demonstrations together with practical work).

Candidates will attend courses 1, 2, 3 and 5 and also carry out a research investigation extending over a period of nine months. In addition, candidates will be required to attend not more than 35 of the specialist lectures in courses 4 or 6 but will not be required to present themselves for examination in these subjects.

Candidates will be examined by written examination on each of courses 1, 2 and 5, and if the examiners require it there will be an oral examination. Candidates will be required to pass in all three papers and to submit a satisfactory thesis based on their research work.

Combustion and Explosion

For details of the scheme of study, see entry under the Faculty of Science, page G104 above.

Construction Engineering

The scheme is given in the Department of Civil Engineering.
The course is normally of twelve months and consists of six subjects together with a dissertation on a project or topic relevant to the syllabus.
The subjects are:

Organisation and management of construction (40 lecture hours)

together with *four* subjects (each 25 lecture hours) selected from:

Construction aspects of design
Materials in construction

Pre-fabricated construction
In situ construction
Highway construction

together with *one* subject (25 lecture hours) which may be the remaining subject from the above group, or may be selected from:

Civic design and architecture
Structural analysis
Structural concrete members
Shell structures
Statistics
An approved alternative subject.

Students will also attend a course of about 12 hours in Computer Appreciation given by the Electronic Computing Laboratory, which will be followed by some practical experience in program writing.

During the first two terms the student's time will be mainly occupied by the lectures and associated studies for the selected subjects which will be examined in May/June leaving the third term and summer vacation to be devoted mainly to a dissertation, to be chosen from a wide range of topics relevant to construction, having regard to the candidate's particular interests and aptitudes.

Engineering Geology and Geotechnics

For details of the scheme of study see entry under the Faculty of Science, page G102 above.

Environmental Pollution Control

This scheme has been arranged in co-operation with a wide range of departments. Applications for admission to the scheme should be made to the head of the Department of Fuel and Combustion Science, The University, Leeds LS2 9JT.

This scheme is suitable for graduates in chemistry, chemical engineering and fuel science and in appropriate circumstances for graduates in mechanical engineering and other related fields.

Candidates accepted under the provision of article 14 of Ordinance V may proceed by attending a course of full-time advanced study which will normally extend over one calendar year and which will include:

(a) approximately 120 lectures on the following topics:
Recognition and measurement of gaseous and liquid pollutants associated with the fuel producing and using industries
Engine exhaust pollution and its control
Gas dispersal in the atmosphere as a 3-dimensional problem involving the use of computer methods
Quantitative study of residence time distributions in solid beds
Filters, cyclones, cleaners
The design of gas scrubbers as a quantitative problem
Dust sampling and analysis
Sources of pollution in the metallurgical industries and their control
Spoiled land
Radioactivity and associated industrial problems
The problems of waste disposal in the marine environment
The relation between pollution and disease, the techniques of medical surveys and measurement of health
Agriculture and pollution
Effects of environmental pollution on the degradation of materials.

(b) seminar and project work on the lecture courses
(c) practical work and visits to appropriate industrial establishments
(d) an individual project on some aspect of the science of environmental pollution control and the preparation of a dissertation upon it.

The examination will consist of written papers, together with an assessment of the candidate's written and experimental work during the course and of his dissertation; an oral examination may be required.

Exploitation of Materials

This scheme is given jointly by the Departments of Ceramics, Mechanical Engineering, Metallurgy and Physics and is designed for graduates in Ceramics, Engineering, Materials Science, Metallurgy, and Physics. It extends over a minimum period of one calendar year.

Candidates accepted under the provisions of article 14 of the Ordinance may proceed by:

(a) attending the appropriate portions of a course of 'conversion' lectures designed to provide a suitable basic background for all candidates
(b) attending a course of advanced study which will include about 150 lectures on the following major topics:
  (i) Solid mechanics—elasticity, elasto-plasticity, fracture mechanics
  (ii) Processing of materials—metals, ceramics, plastics, composites
  (iii) Newer materials—present scope and future potential
  (iv) Engineering materials design considerations—material selection
(c) attending a course of practical work associated with the lecture courses
(d) carrying out a design study or preparing a dissertation on an approved topic
(e) carrying out an experimental and/or analytical project, this amounting to a piece of minor personal research.

The examination will normally consist of five written papers together with an assessment of the dissertation, design and project work.

The papers will be:
1. Materials—general
2. Solid mechanics
3. Materials processing 1
4. Materials processing 2
5. Advances in materials and their exploitation

Fibre Science and Technology

The scheme is arranged by the Department of Textile Industries and applications for admission should be made to the head of that Department.
Candidates accepted under the provisions of article 14 of the Ordinance must normally hold a first- or second-class honours degree in science or an approved branch of applied science, such as chemical engineering.

The following courses are available in the Departments of Colour Chemistry and Dyeing and Textile Industries:

In the Department of Colour Chemistry and Dyeing

1. The chemistry of colouring matters (approximately 48 lectures).
2. The absorption of colouring matters by substrates (approximately 48 lectures).

3. Modern techniques in colour chemistry and the colouring of materials (a practical course lasting one term).

4. Specialist lectures in such subjects as pigments, colour measurement, photo-chemistry.

In the Department of Textile Industries

5. The molecular structure and reactivity of natural and man-made fibres and polymers (approximately 48 lectures).

6. Modern techniques used in the study of fibres and polymers for fibre production, e.g. conventional and thin-film chromatography, deuterium exchange, electrophoresis, isotope techniques, infra-red absorption, light scattering, amino-acid analysis, X-ray and electron diffraction, light and electron microscopy, electron spin resonance, ultra-centrifugation (approximately 48 lectures and demonstrations together with practical work).
7. Yarn formation and properties (approximately 48 lectures).
8. Fabric formation and properties (approximately 48 lectures).
9. Specialist lecture courses (each consisting of approximately 24 lectures) on such topics as:
(a) X-ray and electron diffraction
(b) The thermodynamics of sorption and swelling processes and the visco-elastic properties of fibres and polymers
(c) Polarisation, phase and interference microscopy; electron optics, lenses, theory of image formation, image contrast. Light and electron microscopy of natural and man-made fibres
(d) The chemistry of surface active agents
(e) The chemistry of cellulosic and man-made fibres
(f) Textile finishing
(g) Man-made fibre production
(h) Biosynthesis of fibrous proteins
(i) Recent advances in fibre science
(j) The physiological and constructional aspects of clothing
(k) Operations research in the textile industry
(l) Advanced statistical techniques with textile applications
(m) Modern advances in specialist technological topics.

Candidates will attend two courses of 48 lectures selected from courses 2, 5, 6, 7 and 8 and *either* three specialist lecture courses (of approximately 24 lectures) *or* one course of 48 lectures, given by either the Department of Textile Industries or the Department of Colour Chemistry and Dyeing, and one specialist lecture course (of approximately 24 lectures). For candidates with no previous knowledge of fibre processing technology wishing to attend courses 7 and 8, special introductory courses will be available.

Candidates will also carry out appropriate practical work and will be required to present a dissertation on some aspect of fibre science or technology. The final examination will normally consist of four or five papers (one on each course taken) and, if the examiners require it, an oral examination.

Food Engineering

The scheme is given jointly by the Departments of Chemical Engineering, Mechanical Engineering and the Procter Department of Food and Leather Science. Applications for admission should be made to the head of the Procter Department of Food and Leather Science. The scheme is designed for suitably qualified graduates in chemical engineering, mechanical engineering or some other branch of engineering. It will extend over one calendar year, three months of which may be spent in industry or in a research organisation.

Candidates accepted under article 14 of the Ordinance may proceed by a course of advanced study which will include:

(a) A selection of lecture courses totalling approximately 140 lectures from the following:
  (i) Commodity lectures
  Meat, meat products, fish, eggs and milk—approximately 30 lectures
  Cereal foods—approximately 30 lectures
  Fruit, vegetables and soft drinks—approximately 20 lectures
  Tea, coffee, cocoa—approximately 10 lectures
  Sugar and sugar confectionery—approximately 10 lectures
  Fats and oils—approximately 10 lectures
  (ii) Food processing and food engineering—approximately 40 lectures.
  (iii) One of the following courses:
  Chemical engineering 3H (Particle Dynamics)—approximately 20 lectures
  Mechanical engineering 3H (Control Engineering)—approximately 20 lectures
  Management studies—approximately 20 lectures

(b) A course of advanced practical work:
  Food technology—6 hours per week for two terms

(c) A selection of lectures providing an appropriate basis for the more advanced sections of the course:
  Food chemistry and biochemistry—approximately 20 lectures
  Biology in relation to food materials—approximately 20 lectures
  Bacteriology 1T—30 lectures and practical work
  Food science 2F in part—approximately 10 lectures

(d) A design study or research project prepared as a short dissertation or in some other appropriate form, which may be carried out in industry or in a research organisation

(e) Additional lectures as may be required by the head of department.

The examination will normally consist of five written papers and assessment of the dissertation and practical work undertaken during the course. An oral examination may be given.

Food Science

The scheme, which is given by the Procter Department of Food and Leather Science, is designed for suitably qualified graduates in chemistry, biochemistry, chemical engineering, a biological or physical subject together with adequate chemical training or a combined degree in which chemistry or biochemistry is a principal constituent, and will extend over one calendar year. Candidates accepted under the provisions of article 14 of the Ordinance may proceed by a course of advanced study which will include:

(a) A selection of lecture courses totalling 120-130 lectures from the following:
  (i) Commodity lectures:
  Meat, meat products, fish, eggs and milk—approximately 30 lectures
  Cereal foods—approximately 30 lectures
  Fruit, vegetables and soft drinks—approximately 20 lectures
  Tea, coffee, cocoa—approximately 10 lectures
  Sugar and sugar confectionery—approximately 10 lectures
  Fats and oils—approximately 10 lectures
  (ii) Further lectures:
  Food chemistry and biochemistry—approximately 20 lectures
  Food processing—approximately 20 lectures
  Food microbiology—approximately 20 lectures

(b) Seminar and project work in connection with the lecture courses

(c) Two courses of advanced practical work taken from:
  Food analysis—6 hours per week for 2 terms
  Food technology—6 hours per week for 2 terms
  Food microbiology—6 hours per week for 2 terms

(d) Carrying through and preparing a short dissertation on an individual experimental project on some aspect of food science

(e) Additional lectures from undergraduate courses as required by the head of department.

The examination will normally consist of five written papers and assessment of the dissertation and practical work undertaken during the course. An oral examination may be given.

Geophysics

For details of the scheme of study, see entry under the Faculty of Science, page G103 above.

Leather Science

The scheme, which is given in the Procter Department of Food and Leather Science, is designed for suitably qualified graduates in chemistry, applied chemistry, biochemistry or chemical engineering or in other appropriate science or applied science subjects, and will normally extend over one calendar year. Candidates may also be accepted for a two-year period of study, in the first year of which courses especially in the basic sciences will be taken as required by the head of department. Candidates accepted under the provisions of articles 14 and 16 of the the Ordinance may proceed by the following course of advanced study. Candidates accepted under the provisions of articles 14 and 17 of the Ordinance may proceed by the following course in their final year of study.

(a) Lecture courses totalling 130-140 lectures to be taken by all students.
  (i) The principles of leather science—5 hours together with demonstrations.
  (ii) The structure, properties and uses of leather—approximately 36 lectures.
  (iii) Leather manufacture, the main processes—approximately 60 lectures.
  (iv) Factory operation and byproducts—approximately 20 lectures.
  (v) Leather manufacture, the production of selected leathers—approximately 16 lectures.

(b) Practical work.
  (i) Leather analysis—30 hours.
  (ii) Leather microscopy—12 hours.
  (iii) Leather manufacture and properties (including application of (i) and (ii))—approximately 200 hours, making with (i) and (ii) 12 hours per week for two terms.
  (iv) Works visits.

(c) Additional lecture courses as required by the head of department.

(d) A research project or design study prepared as a short dissertation or in some other appropriate form, which may be carried out in industry, in the tannery of the National Leathersellers College or in a research organisation.

(e) The examination will normally consist of five written papers and assessment of the dissertation and practical work undertaken during the course. An oral examination may be given.

Microwave and Communications Engineering

(joint scheme with the University of Sheffield)

The scheme of study is designed for the following classes of student:

1. (a) Full-time students who have graduated in electrical or electronic engineering or related subjects at an acceptable standard, or hold qualifications deemed to be equivalent to a degree.

Such students may be eligible for the degree of M.Sc. (Leeds), or for the degree of M.Eng., or M.Sc.Tech. (Sheffield) after one calendar year of study.

(b) Similarly qualified students who fulfil the conditions of the degree by interrupted full-time study, normally spread over not more than three consecutive years.

2. Short course students who are able to supply evidence that they can pursue the study with profit may join the course for five weeks at a time and take particular course-components with or without examination. Such students will only receive certificates of attendance on successful completion.

The degree is obtained by gaining credit points. To acquire a credit point, a student must attend a course-component consisting of about 20 lectures given over 4 or 5 weeks and subsequently pass the examination upon it. The requirement for the degree is 10 credit points; in addition, candidates for the degree of M.Sc. (Leeds) or M.Eng. or M.Sc.Tech. (Sheffield) must complete an experimental and/or theoretical project (amounting to a minor piece of personal research), to be carried out in Leeds or Sheffield respectively, and must write a report upon it to the satisfaction of the examiners. In approved cases the project work may be carried out in an industrial or scientific establishment under agreed conditions of supervision, in which a member of staff of the parent university participates.

The course-components taking place in the first term will be examined in January. Those taking place in the second and third terms will be examined in June. Full-time students will normally be expected to take four course-components in each of the first and second terms, and two in the third term.

Course-components (one credit point each)

First term (in Leeds)

Quantum mechanics
Semiconductors and ferrites

and (normally) *two* of the following:

Lumped circuit theory
Distributed circuit theory
Information theory
Random signal theory

Second term (in Sheffield)

Electromagnetic theory
Waveguide theory

and (normally) *two* of the following:

Microwave solid state devices I
Microwave solid state devices II
Electromagnetic wave propagation
Aerials

Third term (in Leeds)

Communication systems
Digital processes

Third term (in Sheffield)

Microwave and millimetre-wave measurements and systems
Computer-aided design.

The choice of university for the candidate's degree award will depend on the field in which his project work is carried out. Since he may not have made this choice at the time of starting, it is intended that the initial registration with either university shall be provisional, and that transfer of the registration to the other university shall remain possible until the end of the second term of full-time study or the equivalent point of the interrupted course.

Transportation Engineering

The scheme is given in the Department of Civil Engineering.
The scheme is designed for graduates in such subjects as civil engineering, architecture and town planning and geography with a content considered relevant to the subject matter of the scheme. It extends over a minimum of one calendar year.
Candidates accepted under article 14 of the Ordinance will proceed by:

(a) attending, except in the case of civil engineers, a course of 15 "conversion" lectures (5 on the elements of concrete technology and 10 on the elements of soil mechanics), designed to provide graduates in subjects other than civil engineering with the appropriate basic background

(b) attending a course of advanced study which will include about 150 lectures on the following topics: and undergoing written examinations consisting of one two-hour paper for each of the following subjects:

Transportation planning (20 lectures)
Traffic management (20 lectures)
Route location and geometric design (20 lectures)
Pavement design and construction (20 lectures)

together with any *three* of the following:

Air transportation (20 lectures)
Pavement materials (20 lectures)
Soil mechanics (20 lectures)
Statistical methods (20 lectures)
Economic structure of transport (20 lectures)
Priority assessment in transportation planning (20 lectures)
Rail transportation *and/or* Hydrology *and/or* Surveying and photogrammetry (two out of the three subjects) (10 lectures each)
Bridge engineering (20 lectures)
Civic design and architecture (20 lectures).
Systems approach to urban traffic control
Highway construction methods

An approved alternative subject, to be chosen in consultation with the head of department.

(c) carrying out and preparing a dissertation on a study project on an approved aspect of transportation engineering.

Candidates will also be required to attend the course of lectures "Computer appreciation", but will not be examined in this subject.

Tribology (Bearing Design, Lubrication, Friction and Wear)

The scheme is given by the institute of tribology in the Department of Mechanical Engineering. Applications for admission should be made to Professor D. Dowson, director of the institute of tribology. The scheme of study extends over a period of one calendar year.
Candidates accepted under article 14 of the Ordinance may proceed by:

(a) attending a course of about 200 lectures on major topics as follows:

1. Viscous flow. Physical properties of lubricants. Viscometry. Isothermal, incompressible theory for steadily loaded fluid film bearings.
2. Machine dynamics. Dynamically loaded bearings. Heat transfer. Thermal effects in fluid film bearings. Flow instability. High speed effects in fluid film bearings. Gas dynamics. Gas bearings.
3. Elasticity and plasticity. Theories of dry friction.

4. Boundary lubrication. Chemical properties of lubricants. Additives. Metrology. Surfaces. Surface failure and wear.
5. Lubrication analysis of machine components. Rolling contact bearings. Gears. Cams. Disc machines.
6. Bearing materials. Bearing selection and design. Numerical analysis. Hydraulic circuits. Brakes. Tyres.

(b) carrying out design and experimental projects.

Examinations

The examinations will normally consist of not more than six papers as follows:

1. Fluid film lubrication I.
2. Fluid film lubrication II.
3. Mechanics of dry contact, wear and lubrication I.
4. Mechanics of dry contact, wear and lubrication II.
5. Analysis of machine elements I.
6. Analysis of machine elements II.

and an assessment of:

(i) a complete design, with technical report, and
(ii) a report on an experimental *and/or* analytical assignment, this amounting to a piece of minor personal research.

Candidates will be required to satisfy the examiners both in written papers and in the assessment of the project work.

Prescribed Schemes of Study for Diplomas

FACULTY OF SCIENCE

History and Philosophy of Science

Postgraduate diploma

The diploma is given by the Division of History and Philosophy of Science in the Department of Philosophy; applications for admission should be made to the head of the Division.

Candidates wishing to enter upon the scheme for the postgraduate diploma in the history and philosophy of science must have graduated in science at an approved university or hold qualifications accepted by the Senate as equivalent.

Each candidate will be required to pursue a course of study in the history and philosophy of science for a period of not less than three terms if a full-time student, or six terms if a part-time student. Part-time students will be required to attend for formal instruction in the University on at least two half-days a week, and also to do written work.
The examination at the end of the course will consist of four papers:

(a) The history of the natural sciences (2 papers)
(b) The science of an approved special period (1 paper)
(c) Philosophy of science (1 paper).

Candidates will be expected to have knowledge both of the growth of ideas and techniques within the natural sciences and of the social and intellectual background to the development of science.

The diploma may be awarded with distinction to a candidate whose work is judged to be of outstanding merit.

Applied Geophysics

For details of the postgraduate diploma in applied geophysics see under the Faculty of Applied Science, page G118.

FACULTY OF APPLIED SCIENCE

Agricultural Sciences

* *The postgraduate diploma in agriculture* (*farm management*)

The scheme of study which extends over one year is designed for persons who have taken a degree in agriculture and who wish to undertake further study in farm management.

First Term

Agriculture
Farm management
Agricultural statistics 4AG
Teaching method
Colloquium
Field work

* No students will be accepted for this scheme from October 1972.

Second Term

Agriculture
Farm management
Agricultural statistics 4AG
Teaching method
Colloquium
Field work

Third Term

Agriculture
Farm management
Agricultural statistics 4AG
Colloquium
Field work.

The diploma is governed by the following regulations:

1. Before entry upon the scheme of study candidates shall satisfy the chairman of the Department of Agricultural Sciences that they have worked for at least twelve consecutive months on an approved farm, that they have an adequate knowledge of practical farming and that their attainments in agriculture and agricultural economics are satisfactory.
2. Candidates must attend satisfactorily the courses [including farm classes, demonstrations and excursions] prescribed in the scheme of study.
3. To obtain the diploma candidates must satisfy the examiners appointed by the University in the examination held at the conclusion of the course. The examination will comprise at least three papers and an oral examination.
4. Candidates must submit a dissertation *and/or* a farm assessment as determined by the chairman of the Department.

Dyeing

The diploma in dyeing

The diploma may be awarded to students gaining the degree of Bachelor of Science in colour chemistry who have attained a sufficiently high standard in the first three years of the four-year honours scheme.

Food Science

The postgraduate diploma in food science

The scheme of study extends over one or two years and is primarily intended for Bachelors of Science who have graduated in pure science or chemical engineering and for non-graduates whose qualifications have been accepted by the Senate in place of a degree.
Individual schemes of study will be determined in relation to the qualifications of the candidates and will include some or all of the following:
1. Preliminary training in food science selected from the scheme leading to the degree of Bachelor of Science with honours, with additional work in pure science as required.
2. Advanced training in food science based on courses from the final year of the scheme leading to the degree of Bachelor of Science with honours.
3. Further advanced study and research in food science or related fields.

Fuel and Combustion Science, Fuel and Combustion Engineering, Ceramics, Metallurgy and Mining and Mineral Sciences

The postgraduate diplomas in fuel and combustion science, fuel and combustion engineering, ceramics, metallurgy, applied geophysics and mineral dressing and coal preparation

Schemes of study extending over one, two or three years lead to the postgraduate diplomas in fuel and combustion science, fuel and combustion engineering, ceramics, metallurgy, applied geophysics and mineral dressing and coal preparation. They have been designed primarily to provide systematic training in advanced technology for Bachelors of Science who have graduated in pure science or in engineering and for non-graduates whose qualifications have been accepted by the Senate in place of a degree. Applications for admission should be made to the head of the appropriate department.

Individual schemes of study will be determined in consideration of the qualifications of candidates and will include some or all of the following:

A. Preliminary training in technological subjects with additional work in pure science and engineering as required.

B. Advanced study in technology based on appropriate courses prescribed for the degree of Bachelor of Science with honours.

Well qualified graduates will normally take B only and may qualify for a diploma after one year of attendance.

Non-graduates will normally take A and B consecutively and may then qualify for a diploma after two years of attendance.

Leather Science

**The diploma in leather manufacture*

In certain circumstances and on the recommendation of the head of the Department the diploma may be awarded upon the completion of a scheme of study prescribed for the degree of Bachelor of Science in leather science.

The postgraduate diploma in leather science

The scheme of study extends over one or two years and is primarily intended for Bachelors of Science who have graduated in science or in engineering, and for non-graduates whose qualifications are accepted by the Senate in lieu of a degree.

Individual schemes of study will be determined in consultation with the head of department in relation to the qualifications of the candidates and will include some or all of the following:

1. Courses in science or applied science which are appropriate as a basis for leather science studies.

2. Advanced training in leather science based on theoretical and practical courses of the scheme leading to the degree of M.Sc. in leather science.

3. Further advanced study and research in leather science, normally in the form of tutorial work and a research project of three months' duration.

* No further admissions will be made to this scheme after October 1969.

Textile Industries

The postgraduate diploma in textile industries

The scheme of study is primarily intended for graduates (or those who hold qualifications accepted by the Senate in lieu of a degree) who wish to take up a career in the textile industry, as well as for graduates who have been employed for some years and wish to have formal training in modern theory and practice. The scheme of study may extend over one calendar year or two academic years depending upon the qualifications of the candidate, and will include the following courses of lectures and laboratory work:

(a) General textile technology—an introductory course extending over the first two weeks of the first term
(b) Molecular structure and physical and chemical properties of natural and man-made fibres (48 lectures)
(c) Theory and practice of yarn and fabric manufacture (96 lectures and laboratory work)
(d) Physical and chemical methods of control of textile materials and processes (24 lectures)
(e) Three courses (72 hours) selected from the following:

(i) Statistical methods in the study and control of textile processes and quality control (24 lectures)
(ii) Management for the textile industry (24 lectures)
(iii) Geometrical and mechanical properties of yarns and fabrics (24 lectures)
(iv) Operational research and economics of spinning (24 lectures)
(v) Applied chemistry—the chemistry of textile processing (24 lectures)
(vi) Instrumentation and automation in the textile industry (24 lectures)
(vii) Textile design (24 lectures and practical work)
(viii) Recent developments and research in a specific branch of the textile industry, e.g. the production of man-made fibres, yarn manufacture, fabric manufacture, or textile finishing (24 lectures).

Candidates will be required to pass an examination based on each course taken and must also present a dissertation based on some approved textile research. Two copies of the dissertation, bound in the standard form prescribed by the University, should be submitted. A diploma with distinction may be awarded to a student whose work is judged to be of outstanding merit.

The postgraduate diploma in textile design

For details of the scheme of study see the prospectus, *Faculty of Arts*, page C147.

Courses in the Faculties of Science and Applied Science

The following pages give information concerning courses given in the Faculties of Science and Applied Science. At the end are given details of courses taught by departments in other faculties but which are included in schemes of study for the degree of B.Sc. The information is arranged under Faculty headings and within the Faculties subjects are listed under the departments teaching the subjects in alphabetical order; an indication is given of the degrees or other qualifications for which a course is normally intended.

The name of each course is given first followed by the year of the scheme of study in which the course is normally taken and by the number of hours a week or the days and times of lectures where these are sufficiently firmly established. There is a brief indication of the course content and where appropriate particulars of the examination relating to the course.

Admission to a second-year course normally requires satisfactory performance at advanced level or in a first-year course in that subject or, in certain specified instances, in two or more related subjects. Third- and fourth-year courses normally require previous satisfactory performance in the corresponding second- and third-year courses respectively. Examinations set in connection with such courses may cover the content of the previously required courses.

Enquiries relating to courses should be addressed to the head of the appropriate department.

FACULTY OF SCIENCE

Anatomy

Anatomy 2Z

Second year; at times to be arranged.
A short course in histology for science students.

For the degree of Bachelor of Science in anatomy

Anatomy 3AT

Third year; at times to be arranged.
Systematic human anatomy, advanced embryology, histology.

Anatomy 4AT

Fourth year; at times to be arranged.
Selected advanced topics in cytology, comparative morphology, modern techniques of histochemistry, tissue culture, electron microscopy and other special fields.
EXAMINATION: 4 papers and an oral examination; a practical examination may be required.

For the degree of Bachelor of Science in psychology

Anatomy 2PS

Second year; at times to be arranged.
A course in neuroanatomy.
EXAMINATION: 1 paper.

Bacteriology

Acceptance requirements: A pass in first-year chemistry or equivalent performance at advanced level is normally required for admission to the following courses. A knowledge of physics to a similar level is desirable.

Bacteriology 2A

Second year; Monday and Wednesday, 2 to 5; Thursday, 9 to 10; Friday, 2 to 4.
The biological characters of bacteria; their biochemical activities; microscopy; immunology; a brief review of the organisms important in soil, food and water and in industry and medicine; elementary virology and mycology.
EXAMINATION: 2 papers and 2 practical examinations.

Bacteriology 2B

Second year; lectures, Monday and Wednesday, 2 to 3, Thursday, 9 to 10. Practicals Monday 3 to 5, Wednesday, 10 to 12, Friday, 2 to 4.
A course of equal standard and an alternative to Bacteriology 2A.
EXAMINATION: 2 papers and 2 practical examinations.

Bacteriology 3A

Third year; Monday and Friday, 10 to 1; Wednesday, 2 to 5.
Immunology, bacterial metabolism and genetics, agricultural bacteriology, plant pathology, virology, mycology and microscopy.
EXAMINATION: 2 papers and 2 practical examinations. An oral examination may be required.

Bacteriology 4A

Fourth year; Monday and Friday, 10 to 1; Wednesday, 2 to 5.
Bacterial metabolism and genetics, virology, immunology, electron and optical microscopy.
EXAMINATION: 2 papers, 2 practical examinations and an oral examination.

Bacteriology 4B

Fourth year; Monday and Friday, 10 to 1; Wednesday, 2 to 5.
Advanced aspects of general bacteriology; food preservation; bacteriological analysis of foods; large scale fermentations.
EXAMINATION: 2 papers, 2 practical examinations and an oral examination.

For the degree of Bachelor of Science in bacteriology

Bacteriology 4BY

Fourth year; at times to be arranged.
Selected advanced topics and research.
EXAMINATION: 3 papers, 3 practical examinations and an oral examination.

For the degree of Bachelor of Science in applied science (leather science) and as an option for the degree of Bachelor of Science in pharmacology

Bacteriology 1T

First term only, two lectures and two hours' laboratory work per week at times to be arranged.
An elementary course dealing with bacterial morphology and metabolism; methods of isolation; use of selective media. A brief review of the role and importance of micro-organisms in the food and related industries.
EXAMINATION: 1 paper and assessment of practical work.

Biochemistry

Biochemistry 2A

Acceptance requirements: a pass in first-year chemistry, or equivalent performance at advanced level, is normally required.
Second year; lectures, Monday, Wednesday and Friday, 12 to 1; laboratory work, either Tuesday or Thursday, 2 to 5.
A general survey of the metabolism of carbohydrates, lipids, proteins and nucleic acids and of biochemical genetics.
EXAMINATION: 1 paper. An oral examination may be required.

Biochemistry 3A

Third year; lectures, Tuesday, Thursday and Friday, 9 to 10; 5 hours' practical laboratory work, Thursdays between 10 and 5.
A course covering enzymology, intermediary metabolism, bioenergetics and other topics.
This course requires previous attendance at Biochemistry 2A.
EXAMINATION: 2 papers. An oral examination may be required.

Biochemistry 4A

Fourth year; lectures, Monday and Wednesday, 9 to 10; Tuesday, 4 to 5; practical laboratory work, 10 hours a week at times to be arranged. Seminars at times to be arranged.
An advanced course including a discussion of methods of separating biochemical substances, protein structure, protein and nucleic acid biosynthesis, control of metabolism and other topics.
This course normally requires previous attendance at Biochemistry 3A, but a student qualified to attend Biochemistry 3A may be permitted to attend Biochemistry 4A concurrently.
EXAMINATION: 3 papers and an oral examination which may cover work in Biochemistry 2A, 3A and 4A.

For the degree of Bachelor of Science in biochemistry

Biochemistry 2BI

Second year; as for Biochemistry 2A.

Biochemistry 3BI

Third year; lectures, Tuesday, Thursday and Friday, 9 to 10; Tuesday and Thursday, 12 to 1; laboratory work, Monday, 9 to 5; Tuesday, 2 to 5; Thursday, 2 to 5 and Friday, 10 to 1. Seminars at times to be arranged.
A course including the molecular organisation of the cell, enzymology, intermediary metabolism, bioenergetics application of x-crystallography to the structure of macromolecules and other topics.
EXAMINATION: 3 papers and an assessment of laboratory course work. An oral examination may be required.

Biochemistry 4BI

Fourth year; lectures, Monday, 9 to 10, 4 to 5; Tuesday, 2 to 3, 4 to 5; Wednesday, 9 to 10; Thursday, 4 to 5; practical work four days a week. Seminars at times to be arranged.
An advanced course including a discussion of the separation of biochemical substances, protein structure, nucleic acid and protein biosynthesis, control of metabolism, biochemistry of special tissues, biochemical genetics, aspects of immunology and other topics. The laboratory work will include a small research investigation.
EXAMINATION: 5 papers, assessment of laboratory course work and an oral examination covering work in Biochemistry 2B1, 3B1 and 4B1.

For the degree of Bachelor of Science in biochemistry in relation to medicine

Biochemistry 4MS

Third or fourth year; 6 lectures a week, 4 days' laboratory work a week and seminars.
The course comprises an extended and more detailed study of biochemistry with emphasis on mammalian and medical biochemistry.
EXAMINATION: 4 papers, assessment of laboratory work and an oral examination.

Biology

Biology 1A (Given by the Departments of Botany and Zoology)

First year; 2 hours lectures a week and 4 hours a week laboratory work.
Botany, zoology, cell biology.
EXAMINATION: 1 paper of 3 hours and a practical examination.

Biophysics

Biophysics 1A

First year; Monday and Friday, 10 to 11; Wednesday, 11 to 12; Thursday, 10 to 1 *or* 2 to 5.
The course covers the main branches of physics in an elementary manner, taught throughout with emphasis on the relevance to biology, under the headings: general properties of matter, heat, electricity and magnetism, light, quantum physics.
The course is suitable for those who have, before entry, studied physics and biology or botany or zoology up to the advanced level in the General Certificate of Education and mathematics at least up to the ordinary level.
EXAMINATION: 1 paper and assessment of laboratory work during the course.

For the degree of Bachelor of Science in biophysics

Biophysics 3BP

Third year; lectures, Monday, 11 to 12; Thursday, 10 to 11; Friday, 11 to 12, together with two practical periods, at times to be arranged.
A course dealing with the physical examination and the chemistry of biological macromolecules and their units, with emphasis on structure and function.
EXAMINATION: 2 papers.

Biophysics 4BP

Fourth year; seven lectures a week with tutorials and laboratory work at times to be arranged.
The physics of macromolecules, physico-chemical methods of investigation of biological macromolecules, and the biological implications of the structure of biological macromolecules.
The course will include 40 lectures in the relevant solid state physics.
EXAMINATION: 5 papers and an oral examination.

Botany

All courses in botany will include field work during term and vacation.

Botany 1A

First year; lectures, Tuesday and Thursday, 9 to 10; laboratory work, Tuesday, 10 to 12 *or* 11 to 1 *or* 2 to 4; Thursday, 10 to 12 *or* 11 to 1.
Form, structure, development and life history of some illustrative examples of lower and higher plants. Introduction to cytology and plant physiology. Principles of ecology discussed with reference to climate, soils and vegetation of the Leeds district.
EXAMINATION: 1 paper and a practical examination.

Botany 2A

Second year; lectures Monday and Friday, 9 to 10; Wednesday, 10 to 11; and laboratory work Monday, 10 to 1 *or* 2 to 5; Friday, 10 to 1 *or* 2 to 5.
A comparative discussion of the diversity of morphology, anatomy and reproductive biology in the major groups of the plant kingdom. The biology, nutrition and metabolism of heterotrophic plants. An introduction to Mendelian genetics and to biochemical genetics. Ecology—description and dynamics of vegetation and ecosystems.
EXAMINATION: 1 paper, 1 practical examination, and an assessment of practical work.

Botany 3A

Third year; *Note:* A student requiring only one year of botany in connection with another degree scheme may choose *either* Botany 2A *or* Botany 3A.
Lectures, Monday and Friday, 9 to 10; Wednesday, 10 to 11; laboratory work Monday, 10 to 1 *or* 2 to 5; Friday, 10 to 1 *or* 2 to 5.

Physiology of the whole plant considered in relation to the aerial and edaphic environments. Cell biology; the development and ultrastructure of plant cells considered in relation to the metabolic function of the components. Ecology—plant distribution in relation to environment.
EXAMINATION: 1 paper, 1 practical examination, and assessment of practical work.

Botany 3B

Third year; 3 lectures and 3 hours a week laboratory work at times to be arranged.
Plant growth, morphogenesis and differentiation. Comparative anatomy. Plant geography and vegetation history. Cytogenetics and the genetical structure of populations and species. Nature of taxonomic and nomenclatural systems. Comparative morphology, anatomy and evolution in selected plant groups.
EXAMINATION: 1 paper, 1 practical examination, and assessment of practical work.

Botany 4A

Fourth year; lectures, tutorials, seminars and project-orientated laboratory work at times to be arranged.
The course includes ten topics in two groups as for Botany 4BT. Candidates may select two topics, one from each group.
EXAMINATION: 2 papers, 2 practical examinations, and assessment of practical work.

For the degree of Bachelor of Science in botany

Botany 3BT

Third year.
The course includes Botany 3A and Botany 3B.
EXAMINATION: 2 papers, 2 practical examinations, and assessment of practical work.

Botany 4BT

Fourth year; lectures, tutorials, seminars and project-orientated laboratory work at times to be arranged.
The course includes ten topics in two groups; candidates may select five topics including at least two from each group.
Group 1
Physiology of hormone action; the control of cell metabolism; photosynthesis; biophysics; experimental ecology.
Group 2
Palaeobotany; cytogenetics and biosystematics; algal cytology and fine structure of flagellates and microalgae; light and electron microscopy and histochemistry of larger marine algae; quaternary ecology.
Other options may be available by special arrangement.
EXAMINATION: 4 papers, 2 practical examinations, and assessment of practical work.

Chemistry

Chemistry 1A

First year; Monday, Wednesday and Friday, 12 to 1; and laboratory work at times to be arranged.
EXAMINATION: 1 paper and assessment of the year's practical work; the examiners may additionally require a practical examination.

Chemistry 1B

First year; Tuesday, 11 to 12; Thursday and Saturday, 9 to 10; and laboratory work at times to be arranged.
EXAMINATION: 1 paper and assessment of the year's practical work; the examiners may additionally require a practical examination.

Chemistry 2D

Second year; Tuesday, Thursday and Saturday, 10 to 11; and laboratory work at times to be arranged.
A course in general, inorganic, and physical chemistry.
Candidates are recommended to obtain a knowledge of elementary physics before taking this course. A knowledge of elementary calculus will also be assumed.
EXAMINATION: 1 paper and assessment of the year's practical work; the examiners may additionally require a practical examination.

Chemistry 3E

Second or third year; Tuesday and Thursday, 12 to 1; Friday, 4 to 5; and laboratory work at times to be arranged.
A one-year course in organic chemistry normally taken in conjunction with Chemistry 2D or 2T.
EXAMINATION: 1 paper and assessment of practical work; the examiners may additionally require a practical examination.

Chemistry 4B

Third or fourth year; Tuesday, Thursday and Saturday, 10 to 11; and laboratory work at times to be arranged.
A course in physical and inorganic chemistry requiring previous attendance at Chemistry 2D.
EXAMINATION: 1 paper and assessment of practical work.

For the degree of Bachelor of Science in two main subjects combined

Chemistry 2A

Second year; Tuesday, Thursday and Saturday, 10 to 11; and laboratory work at times to be arranged.
A course in general, physical, organic and inorganic chemistry, for students intending to proceed to Chemistry 3A.
EXAMINATION: 1 paper and assessment of the year's practical work; the examiners may additionally require a practical examination.

Chemistry 2B

Second year; Tuesday, Thursday and Saturday, 10 to 11; and laboratory work at times to be arranged.
A course in general, physical and organic chemistry.
EXAMINATION: 1 paper and assessment of the year's practical work; the examiners may additionally require a practical examination.

Chemistry 3A

Third year; Tuesday, Thursday and Saturday, 10 to 11; and laboratory work at times to be arranged.

A course in inorganic, physical and organic chemistry requiring previous attendance at Chemistry 2A.

EXAMINATION: 3 papers of 2 hours each on the work of Chemistry 2A and Chemistry 3A, and assessment of practical work; examiners may additionally require a practical examination.

Chemistry 4A (Inorganic)

Fourth year; Tuesday, 9 to 10; Friday, 9 to 10 and, in the first term, Wednesday, 11 to 12; together with approximately 20 lectures or seminars which may be at the following times: Monday, 9 to 10; Tuesday, 11 to 12, 12 to 1; Thursday, 9 to 10, 11 to 12; Friday, 10 to 11; tutorials and laboratory work at times to be arranged.

A course mainly in inorganic chemistry which will include some or all of the following topics: the solid state, non-metals, transition elements with special reference to complexes, magnetic susceptibility and electric polarisation, spectroscopy (I.R.; Raman and N.M.R.), trends in the Periodic Table, analytical techniques, solution equilibria and solution kinetics.

EXAMINATION: 2 papers on the final year's work and the relevant background, and assessment of the practical work during the year. The performance in the 3A examination will be taken into account in determining the results of the final examination for honours.

Chemistry 4A (Organic)

Fourth year; Monday, 9 to 10; Wednesday, 12 to 1 in term 1, 11 to 12 in terms 2 and 3; Friday, 10 to 11 in term 2; together with approximately 20 lectures or seminars which may be at the following times: Tuesday, 9 to 10; Friday, 9 to 10; tutorials and laboratory work at times to be arranged.

A course in organic chemistry which will include some or all of the following topics: organic reaction mechanisms, poly-functional compounds, alicyclic compounds, stereochemistry, advanced aromatic chemistry, heterocyclic compounds, spectroscopic techniques (I.R., U.V. and N.M.R.), carbohydrates, peptides.

EXAMINATION: 2 papers on the final year's work and the relevant background, and assessment of the practical work during the year. The performance in the 3A examination will be taken into account in determining the results of the final examination for honours.

Chemistry 4A (Physical)

Fourth year; Tuesday and Thursday, 11 to 12; Friday, 10 to 11 in term 1; together with problem class, Thursday, 9 to 10, and some additional lectures which may be on Monday, 10 to 11 or Wednesday and Friday, 10 to 11 during part of the second term; tutorials and laboratory work at times to be arranged.

A course in physical chemistry which will include some or all of the following topics: quantum mechanics, reaction kinetics, thermodynamics and statistical thermodynamics, spectroscopy, surface and colloid chemistry.

EXAMINATION: 2 papers on the final year's work and the relevant background, and assessment of the practical work during the year. The performance in the 3A examination will be taken into account in determining the results of the final examination for honours.

For the degree of Bachelor of Science in chemistry

Chemistry 1CH

First year; Tuesday, 11 to 12; Thursday and Saturday, 9 to 10. A general course in inorganic, organic and physical chemistry. Laboratory work and tutorial classes at times to be arranged.

EXAMINATION: 1 paper and an assessment of the year's practical work. Candidates will be required to satisfy the examiners in the separate sections of the written paper.

Chemistry 2CH

Second year.
Two lectures a week in each of inorganic, organic and physical chemistry.
Laboratory work and tutorial classes at times to be arranged.
EXAMINATION: 3 papers and an assessment of practical work.

Chemistry 3CH

Third year. 1st term; eight lectures a week; second term, seven lectures a week; third term, six lectures a week: divided between the three branches of chemistry. Laboratory work and tutorial classes at times to be arranged.
EXAMINATION: 3 papers and an assessment of practical work.

Chemistry 4CH

Fourth year. During the final year students will be permitted to specialise in two of the three branches of chemistry.
First and 2nd terms: 3 lectures a week in each of the two chosen branches of chemistry. Laboratory work and tutorial classes at times to be arranged.
FINAL EXAMINATION: 4 papers comprising 2 papers in each of the two branches of chemistry selected for study, and an assessment of practical work. In the award of classes in honours, performance in the Chemistry 3CH examination will be taken into consideration.

For the degree of Bachelor of Science in applied science

Chemistry 2T

Second year; Tuesday and Thursday 10 to 11 and Saturday, 9 to 10; and laboratory work at times to be arranged. The practical work is not less than an average of 4 hours a week for one session, or for two half-sessions. A course in physical chemistry.
EXAMINATION: 1 paper, and assessment of the year's practical work.

Chemistry 3T

Third year; Tuesday, 10 to 11; Wednesday and Thursday, 9 to 10.
A course in physical chemistry requiring previous attendance at Chemistry 2T.
EXAMINATION: 1 paper.

For the degree of Bachelor of Science in applied science (fuel and combustion science)

Chemistry 3FU

Second or third year; Tuesday and Thursday, 12 to 1; Friday, 4 to 5 (42 lectures); and laboratory work at times to be arranged.
A course in organic chemistry, normally taken after Chemistry 2T.
EXAMINATION: 1 paper, and assessment of the year's practical work; the examiners may additionally require a practical examination.

For the degree of Bachelor of Science with honours in ceramics

Chemistry 3CR

Third year; Tuesday, Thursday and Saturday, 10 to 11; and laboratory work at times to be arranged.
A course in inorganic chemistry.
EXAMINATION: 1 paper, and assessment of the year's practical work; the examiners may additionally require a practical examination.

For the degree of Bachelor of Science in applied science (chemical engineering)

Chemistry 3CE

Second or third year; Tuesday and Thursday, 12 to 1; Friday, 4 to 5 (42 lectures); and laboratory work at times to be arranged.
A course in organic chemistry, normally taken with or after Chemistry 2T.
EXAMINATION: 1 paper, and assessment of the year's practical work; the examiners may additionally require a practical examination.

For the degree of Bachelor of Dental Surgery and the diploma in dental surgery

Chemistry and Physics of Dental Materials

Third year; Tuesday, 2 to 3; and laboratory work at times to be arranged.
A special course in chemistry, ceramics and metallurgy, given in collaboration with the Houldsworth School.
EXAMINATION: 1 paper, and assessment of practical work.

Computational Science (see Mathematics, Statistics and Computational Science)

Earth Sciences and Geology

All courses in earth sciences and geology will include field work during term and vacation.

Geology 1C

First year; lectures, Monday and Friday, 10 to 11; laboratory work, Monday 11 to 1 *or* 2 to 4 and Thursday, 11 to 1 *or* Friday 2 to 4.
An introduction to the principles of geology.
EXAMINATION: 1 paper and a practical examination.

Geology 2C

Second year; 8 hours a week at times to be arranged.
Dynamical geology, optical mineralogy, palaeontology, petrology, economic geology, geochemistry and map interpretation.
EXAMINATION: 2 papers and 2 practical examinations.

For the degree of Bachelor of Science in earth sciences

Earth Sciences 2TS

Second year; 18 hours a week at times to be arranged.
The physics of the earth; properties of matter; wave motion; the earth's form, gravitational field, interior, density distribution, thermal state, magnetism and radioactivity.
The history of the earth; the principles and methods of geology and palaeontology.
The composition of the earth: the abundance and distribution of chemical elements; the crystalline state and minerals; the composition and origin of rocks.
EXAMINATION: 3 papers and 2 practical examinations.

Earth Sciences 3TS

Third year; 24 hours a week at times to be arranged.
Meteorology, hydrology and physical oceanography; the surface of the earth; soils (pedology) and sediments; physico-chemical processes in the crust and their products (igneous and metamorphic rocks and epigenetic ores); structures in the crust; invertebrate palaeontology and palaeoecology; surveying.
EXAMINATION: 3 papers and 3 practical examinations.

Earth Sciences 4TS

Fourth year; an approved selection amounting to sixteen hours a week from topics offered. (Field and project work additional).
Topics may include pure and applied geophysics, rock mechanics, oceanography, meteorology, experimental and applied geochemistry, isotope geochemistry and geochronology, historical and regional geology; palaeozoology and palaeobotany, pedology, soil mechanics, geomorphology, photogrammetry, lunar geology, the evolution of the solar system.
EXAMINATIONS: 4 papers and 4 practical examinations; a report on a field project is to be submitted as a part of the practical examination.

For the degree of Bachelor of Science in two main subjects combined, one of them being earth sciences

Earth Sciences 2A

Second year; 9 hours a week at times to be arranged.
The principles and methods of geology and the composition of the earth.
EXAMINATION: 2 papers and 2 practical examinations.

Earth Sciences 2B

Second year; 9 hours a week at times to be arranged.
The physics of the earth and the principles and methods of geology.
EXAMINATION: 2 papers and 2 practical examinations.

Earth Sciences 3A

Third year; 8 hours a week at times to be arranged.
The composition and origin of soils, sediments and rocks.
EXAMINATION: 2 papers and 2 practical examinations.

Earth Sciences 3B

Third year; 8 hours a week at times to be arranged.
Meteorology: dynamical oceanography; rock mechanics; the structure of the earth's crust.
EXAMINATION: 2 papers and 2 practical examinations.

Earth Sciences 4A

Fourth year; 8 hours a week at times to be arranged.
Chemistry of the atmosphere and hydrosphere; chemistry of the crust, mantle and core of the earth: isotope geochemistry and geochronometry; ore deposits and applied geochemistry.
EXAMINATION: 2 papers and 2 practical examinations.

Earth Sciences 4B

Fourth year; 8 hours a week at times to be arranged.
Geophysics, tectonophysics, isotope geochemistry and geochronology.
EXAMINATION: 2 papers and 2 practical examinations.

For the degree of Bachelor of Science in geology

Geology 2TS

Second year; 18 hours a week at times to be arranged.
Dynamical geology, optical mineralogy, petrology, history of the earth, structural geology and map interpretation, invertebrate palaeontology, cartography, stratigraphy of the British Isles, geochemistry.
EXAMINATION: 3 papers and 2 practical examinations.

Geology 3TS

Third year; 24 hours a week at times to be arranged.
Igneous and metamorphic petrology, economic geology, geochemistry, structural geology, geophysics, surface of the earth, geomorphology, meteorology, sedimentology, pedology, surveying, palaeontology, world stratigraphy.
EXAMINATION: 3 papers and 3 practical examinations.

Geology 4TS

Fourth year; an approved selection amounting to 16 hours a week from topics offered. (Field and project work additional.)
Topics may include, ore microscopy, engineering geology, palaeontology, palaeobotany, igneous and metamorphic petrology, geochemistry, planetary geology, geophysics, geochronology, tectonophysics, sedimentology, photogrammetry, African geology, mining economics.
EXAMINATION: 4 papers and 4 practical examinations; a report on a field project is to be submitted as part of the practical examination.

For the degree of Bachelor of Science in mining geology

Geology 2D

Second year: 9 hours per week including practical work at times to be arranged.
The history of the earth; structural geology and map interpretation; the crystalline state and minerals; composition and origin of rocks.
EXAMINATION: 2 papers and 2 practical examinations.

Geology 3D

Third year: 8 hours per week including practical work, at times to be arranged.
Physico-chemical processes in the earth's crust and their products (igneous and metamorphic rocks and mineral deposits): Structural geology; sedimentology and oceanography.
EXAMINATION: 2 papers and 2 practical examinations.

Geology 4D

Fourth year: 9 hours per week including practical work at times to be arranged.
World stratigraphy; tectonophysics, geochronology, geochemical techniques; ore microscopy; photogrammetry; mineral deposits.
EXAMINATION: 2 papers and 2 practical examinations.

For the degree of Bachelor of Science in two main subjects, geography and geology, combined

Geology 2A

3 hours lectures and 6 hours laboratory work a week at times to be arranged.
History of the earth; the principles and methods of geology; palaeontology, the structure and classification of fossils; rock forming minerals, rocks and their origin.
EXAMINATION: 2 papers and 2 practical examinations.

Geology 3A

Third year; 3 hours' lectures and 6 hours' laboratory work at times to be arranged.
Mineralogy; igneous, sedimentary and metamorphic rocks.
EXAMINATION: 2 papers and 2 practical examinations.

Geology 3B

3 hours' lectures and 6 hours' laboratory work a week at times to be arranged.
Palaeontology; stratigraphy; structural geology.
EXAMINATION: 2 papers and 2 practical examinations.

Geology 4A

Surface history, structure and evolution of the earth's crust; applied geology; elementary geophysics and geochemistry.
EXAMINATION: 2 papers and 2 practical examinations.
A report on a geological survey of a specific area is to be submitted as part of the final degree examinations.

For the degree of Bachelor of Science in applied science (*mining and mineral sciences*)

Geology 1AM

First year; 5 hours a week: lectures Monday and Friday, 10 to 11, laboratory work Friday, 2 to 5.
An introduction to the principles of geology and mineralogy.
EXAMINATION: 1 paper and a practical examination.

Geology 2AM

First year; 5 hours a week: lectures Thursday, 11 to 12, Friday, 10 to 11, laboratory work Thursday, 2 to 5.
Systematic, determinative and paragenetic mineralogy.
EXAMINATION: 1 paper and a practical examination.

For the degree of Bachelor of Science in applied science (*mining*)

Geology 2MI

Second year; 6 hours a week: lectures Wednesday and Friday, 10 to 11, laboratory work Monday, 3 to 5, Friday, 11 to 1.
Economic and applied geology.
EXAMINATION: 2 papers and a practical examination.

For the degree of Bachelor of Science in applied science (*civil engineering*)

Geology 1CV

4 hours a week: lectures, Tuesday, 2 to 3, Thursday, 9 to 10; laboratory, Tuesday, 3 to 5, *or* Wednesday, 11 to 1.
An introduction to the principles of geology with emphasis on its application to engineering problems.
EXAMINATION: 1 paper and a practical examination.

Geology 2CV

3 hours a week: Friday, 2 to 5.
A course offered by the Department of Earth Sciences, as an option in Civil Engineering 3H(A), Civil Engineering 3H(B) or Civil Engineering 3H(C), for civil engineers who have passed Geology 1CV.
Selected topics of special interest to civil engineers will be taken to an advanced level and considerable emphasis will be placed on field work.
The course will consist of one lecture and two hours' practical work a week.
EXAMINATIONS: *Honours degree students:* one 3-hour written paper and one 3-hour practical paper. *Ordinary degree students:* one 3-hour written paper.
All courses in earth sciences and geology will include field work during term and vacations.

Genetics

For the degree of Bachelor of Science in two main subjects combined

There is no Genetics 2A course, but students intending to proceed to Genetics 3A in the following year will be required to attend the 8 lectures on elementary chromosome theory, and accompanying laboratory work, which are common to Botany 2A and Zoology 2A and, in part, to Bacteriology 2A. Biochemistry 2A, which is a prerequisite for Genetics 3A, includes 8 lectures on introductory biochemical genetics.

Genetics 3A

Third year; lectures, Tuesday and Thursday, 12 to 1, and one other hour to be arranged; laboratory work, six hours at times to be arranged.
First term: An introduction to the genetics of bacteria; basic chromosome theory illustrated by fungi and higher organisms.
Second term: Population genetics; developmental genetics; extrachromosomal heredity.
Third term: An introduction to methods in human genetics. A review of breeding systems in plants and animals.
EXAMINATION: 1 paper and a practical examination.

Genetics 4A

First term: Molecular genetics: properties and mode of action of the genetic material; regulation of gene action mainly in micro-organisms.
Second term: Fungal genetics, especially in relation to mechanisms of recombination; advanced topics in bacterial and viral genetics; biochemical genetics of man.
Third term: Selected topics.
In addition each student will be expected to carry out and write a report on a research project.
EXAMINATION: 2 papers, a practical examination, and project assessment.

Geology (see Earth Sciences)

Mathematics, Statistics and Computational Science

Mathematics 1A

First year; Monday, Tuesday, Wednesday and Friday, 9 to 10.
Algebra, calculus, geometry, statics and dynamics.
EXAMINATION: 2 papers.

Mathematics 1Z

First year; Monday, Wednesday and Friday, 9 to 10.
Fundamental formulae of trigonometry and algebra; analytical geometry; calculus. Elementary statics and dynamics.
This course is designed as a supplementary course in mathematics for students who are not expecting to proceed to more advanced courses in mathematics in the University.
EXAMINATION: 2 papers.

Statistics 2Z

Second year; Wednesday and Friday, 9 to 10.
Elementary treatment of statistical data; introduction to problems of sampling.
Normally Mathematics 1A or equivalent is an admission requirement for this course. Completion of the course does not qualify a student to proceed to further courses in statistics in the University.
EXAMINATION: 1 paper.

For the degree of Bachelor of Science in two main subjects combined

Mathematics 2A

Second year; Monday, Tuesday, Wednesday, Thursday and Friday, 12 to 1.
Algebra, analysis, calculus, geometry, vector algebra, statics, dynamics.
EXAMINATION: 2 papers.

Mathematics 3A

Third year; Wednesday and Friday, 10 to 11; Monday, Wednesday and Friday, 12 to 1.
Advanced calculus, real variable analysis, elementary complex variable analysis, vector analysis, dynamics, elementary hydrodynamics.
EXAMINATION: 2 papers.

Mathematics 4A

Fourth year; 5 hours a week and tutorial classes at times to be arranged.
Selected topics in pure and applied mathematics.
EXAMINATION: 3 papers.

Statistics 2A

Second year; Monday, Tuesday, Wednesday and Friday, 9 to 10; *or alternatively*, Monday, Tuesday, Friday, 10 to 11, and Thursday, 9 to 10.
Elementary treatment of statistical data; introduction to problems of sampling; probability theory.
Candidates taking Statistics 2A must either have passed Mathematics 1A or have reached a satisfactory standard in pure mathematics at the advanced level in the General Certificate of Education examination.
EXAMINATION: 2 papers.

Statistics 3A

Third year: Tuesday and Thursday, 10 to 11; and Thursday, 2 to 5.
Analysis of variation, sampling theory of Gaussian distribution, interpretation of experimental data and arrangement of field trials, elements of queueing theory, correlation, statistical computation.
EXAMINATION: 2 papers.

Statistics 4A

Fourth year; Tuesday and Thursday, 10 to 11; Friday, 9 to 10; Monday, 2 to 5.
Sampling finite populations, sequential sampling, multiple regression, further experimental design.
EXAMINATION: 3 papers.

Computational Science 2A

Monday, 9 to 10; Tuesday, 9 to 10 and 2 to 4; Wednesday, 9 to 10; Friday, 9 to 10.
Introduction to computer programming; numerical calculus; Boolean algebra and its applications; introduction to computing systems; introduction to commercial data processing; practical and tutorial classes.
Candidates taking Computational science 2A must either have passed Mathematics 1A or have reached a satisfactory standard in pure mathematics at the advanced level in the General Certificate of Education examination.
EXAMINATION: 2 papers and an assessment of practical work during the course.

Computational Science 3A

Monday, 2 to 4; Tuesday, 11 to 12; Thursday, 9 to 10 and 12 to 1; Friday, 11 to 12.
Information representations; programming languages; operational research and statistical analysis; numerical applications; systems organisation and programming; practical and tutorial classes.
EXAMINATION: 2 papers and an assessment of practical work during the course.

Computationa l Science 4A

Tuesday and Wednesday, 10 to 11; Thursday, 9 to 10; Friday, 10 to 11 and 2 to 4.
Introduction to applied information structures; analogue and hybrid computing; an approved choice of two course components from a set which will normally include: logical design, formal languages, ordinary differential equations, numerical linear algebra, mathematical programming, simulation and modelling; practical and tutorial classes.
EXAMINATION: 2 papers and an assessment of practical work during the course.

For the degree of Bachelor of Science in mathematics

Mathematics 1MM

9 hours a week and tutorial classes at times to be arranged.
Algebra, analysis, calculus, geometry, statics, dynamics, statistics.
EXAMINATION: 4 papers.

Mathematics 2MM and 2P

15 hours a week and tutorial classes at times to be arranged.
Linear algebra, analysis, calculus, groups, differential equations, geometry, statics, dynamics, statistics, computational science, applications of mathematics.
EXAMINATION: 5 papers.

Mathematics 3MM

11 hours a week and tutorial classes at times to be arranged.
Algebra, topology, analysis, mathematical logic, potential theory, wave theory, dynamics, hydrodynamics, optimisation techniques.
EXAMINATION: 4 papers.

Mathematics 4MM(A)

11 hours a week and tutorial classes at times to be arranged.
Courses, some extending over the whole session and others over half the session, will be given on a number of topics. In any one year the list of topics may include real variable analysis, complex variable analysis, functional analysis, algebra, geometry, differential geometry, topology, mathematical logic, set theory, theory of numbers, electromagnetism, fluid mechanics, advanced dynamics and statistical mechanics, quantum theory, relativity, elasticity, waves, aircraft dynamics, astronomy, mathematical methods, numerical analysis, mathematical programming, statistics, stochastic processes. Each candidate will take a selection, approved by the chairman of the School of Mathematics, of five courses, extending over the whole session, or their equivalent, including at least one such course in pure mathematics and at least one such course in applied mathematics.

Each course will be examined. (In assessing the result of the final examination the candidate's performance in the Mathematics 3MM examination will be taken into account.)

Mathematics 4MM(B)

10 hours a week and laboratory work and tutorial classes at times to be arranged.
Courses, some extending over the whole session and others over half the session, will be given on mathematical methods and on a number of topics in statistics and computational mathematics. These topics may include applied probability, stochastic processes, experimental design, numerical analysis, mathematical programming and other branches of operational research.
Each candidate will take a selection, approved by the chairman of the School of Mathematics, of five courses, extending over the whole session, or their equivalent, including at least one such course in each of mathematical methods, statistics, and numerical analysis.
Each course will be examined. (In assessing the result of the final examination the candidate's performance in the Mathematics 3MM examination will be taken into account.)

For the ordinary degree of Bachelor of Science in mathematics

Mathematics 3P

8 hours a week and tutorial classes at times to be arranged.
Algebra, analysis, calculus, dynamics, potential theory, together with other courses as arranged.
EXAMINATION: 4 papers.

Mathematics 4P

8 hours a week and tutorial classes at times to be arranged.
Analysis, calculus, mathematical logic, wave theory, hydrodynamics, together with other courses as arranged.
EXAMINATION: 4 or 5 papers.

For the degree of Bachelor of Science in computational science

Computational Science 3CT

12 hours lectures, practical work and tutorial classes at times to be arranged.
The course will normally include information representations; introduction to applied information structures; programming languages; logical design; ordinary differential equations; analogue and hybrid computing; numerical applications; system organisation and programming; operational research and statistical analysis; social implications.
EXAMINATION: 4 papers and an assessment of practical work.

Computational Science 4CT

12 hours lectures, practical work and tutorial classes at times to be arranged.
A choice of 8 components chosen from a set which will normally include: formal languages; information and coding theory; formal aspects of computation; operating systems; advanced differential equations; numerical linear algebra; function approximation; optimisation; automata theory; advanced information structures; digital technology; computer graphics; mathematical programming; simulation and modelling; topics in operational research; models of management.
EXAMINATION: 4 papers and an assessment of practical and project work.
(In assessing the result of the final examination the candidate's performance in Computational Science 3CT will be taken into account).

For the degree of Bachelor of Science in physics

Mathematics 2PX

Second year; Monday, Tuesday, Wednesday, Thursday and Friday, 12 to 1.
Algebra, calculus including elementary differential equations and Fourier series, elementary analytical geometry of three dimensions; vectors, statics, particle and rigid dynamics.
EXAMINATION: 2 papers.

Mathematics 3PX

Third year; Monday, Wednesday and Friday, 10 to 11, Wednesday and Friday, 12 to 1.
Some or all of: Multiple integrals, differential equations, special functions of mathematical physics, vector and tensor analysis, matrices, functions of a complex variable, higher dynamics, numerical analysis.
EXAMINATION: 3 papers.

For the degree of Bachelor of Science in chemistry

Mathematics 2CH

Second year: Monday, Wednesday and Friday, 12 to 1.
Calculus including differential equations and Fourier series, algebra including complex numbers and elementary matrices, analytical geometry of three dimensions.
EXAMINATION: 1 paper.

For the degree of Bachelor of Science in biophysics

Mathematics 2BP (see description of course components under Mathematics 2CV, 2ME, 2EE, 2CG, 2CE, 2AM, etc.)

First or second year.
Components A(1) and P(1).
Tuesday and Thursday, 9 to 10.
Monday, Wednesday and Friday 9 to 10.
EXAMINATION: 3 papers.

Mathematics 3BP (See description of course components under Mathematics 3CV, 3ME, 3EE, 3CG, 3CE.)

Second or third year.
Components A, B, C, and F.
Monday and Wednesday, 12 to 1 for the first half session.
Monday and Wednesday, 12 to 1 for the second half session.
Monday and Wednesday, 10 to 11 for the first half session.
Monday and Wednesday, 10 to 11 for the second half session.
EXAMINATION: 4 two-hour papers.

For the degree of Bachelor of Science in earth sciences

Mathematics 2TS (see description of course components under Mathematics 2CV, 2ME, 2EE, 2CE, 2AM, etc.)

First or second year.
Components A(1) and P(1).
Tuesday and Thursday, 9 to 10.
Monday, Wednesday and Friday, 9 to 10.
EXAMINATION: 3 papers.

For the degree of Bachelor of Science in mining geology

Mathematics 2B (See description of course components under Mathematics 2CV, 2ME, etc.)

Second year.
Components P(1) and A(3)
Monday, Wednesday and Friday 9 to 10, Tuesday 9 to 10.
EXAMINATION: 3 papers.

Mathematics 3B (See description of Component F under Mathematics 3CV, 3ME, etc.)

Third year.
Component F and Statistics 2Z.
Monday and Wednesday 10 to 11 for the second half session, *or*
Tuesday and Thursday 10 to 11 for the second half session.
Wednesday and Friday 9 to 10.
EXAMINATION: 2 papers.

For the degree of Bachelor of Science in applied science

Mathematics 2CV, 2ME, 2EE, 2CG, 2CE, 2AM, 2CR, 2FU, 2MI, 2MT, 2TE, 2TP

Selections from the following course components:

Component A(1): applied mathematics—differential equations, vectors and their application to geometry and statics, particle and rigid body dynamics in two and three dimensions.
Monday and Friday, 10 to 11 *or*
Tuesday and Thursday, 9 to 10.

Component A(2): applied mathematics—differential equations, vectors and their application to geometry and statics, particle and rigid body dynamics in two dimensions, introduction to Lagrange's equations.
Monday and Thursday, 12 to 1.

Component A(3): applied mathematics—differential equations, vectors and their application to geometry and statics, particle dynamics in two dimensions.
Tuesday, 9 to 10.
Component P(1): pure mathematics—complex numbers, basic analysis, linear and matrix algebra, sequences series and Fourier series, numerical methods.
Monday, Wednesday and Friday, 9 to 10 *or*
Tuesday, Wednesday and Friday, 12 to 1 *or*
Monday and Wednesday, 10 to 11 and Friday, 9 to 10.
Component P(2): pure mathematics—complex numbers, basic analysis, linear and matrix algebra.
Tuesday and Thursday, 12 to 1.
Component P(3): pure mathematics—complex numbers, basic analysis, numerical methods.
Monday, Wednesday and Friday, 9 to 10, for the first half-session; Friday 9 to 10 for the second half-session.
Component S: statistics.
Wednesday, 10 to 11.

Mathematics 3CV, 3ME, 3EE, 3CG, 3CE, 3FU
Selections from the following course components:
Component A: theory and applications of a complex variable.
Tuesday and Thursday, 10 to 11, for the first half session *or* Monday and Wednesday, 12 to 1, for the first half session.
Component B: differential equations.
Monday and Wednesday, 10 to 11, for the first half session *or* Monday and Wednesday, 10 to 11, for the second half session *or* Monday and Wednesday, 12 to 1, for the second half session.
Component C: vector analysis.
Monday and Wednesday, 10 to 11, for the first half session.
Component C*: vector analysis (short course).
Friday, 12 to 1, for the first half session and third term.
Component D: differential equations and waves.
Friday, 11 to 12.
Component E: statistics.
Friday, 10 to 11.
Component F: introduction to numerical methods with applications to differential equations.
Monday and Wednesday, 10 to 11, for the second half session *or* Tuesday and Thursday, 10 to 11, for the second half session.

For the degree of Bachelor of Science in applied science (civil engineering)

Mathematics 2CV
First or second year.
Components A(1), P(2) and S.
Monday and Friday, 10 to 11.
Tuesday and Thursday, 12 to 1.
Wednesday, 10 to 11.
EXAMINATION: 3 papers.

Mathematics 3CV
Second or third year.
Components A, B, C and E.
Tuesday and Thursday, 10 to 11, for the first half session;
Monday and Wednesday, 10 to 11, for the second half session;
Monday and Wednesday, 10 to 11, for the first half session.
Tuesday and Thursday, 10 to 11, for the second half session.
EXAMINATION: 4 two-hour papers.

Mathematics 4CV

Third or fourth year; two hours a week at times to be arranged.
Topics selected in consultation with the Department of Civil Engineering.
EXAMINATION: 2 two-hour papers.

For the degree of Bachelor of Science in applied science (*mechanical engineering*)

Mathematics 2ME

First or second year.
Components A(1) and P(1).
Tuesday and Thursday, 9 to 10.
Monday and Wednesday, 10 to 11, and Friday, 9 to 10.
EXAMINATION: 3 papers.

Mathematics 3ME

Second or third year.
Components D and F.
Friday, 11 to 12.
Monday and Wednesday 10 to 11, for the second half session.

Additional Options. Component A *and/or* C may be taken in place of engineering options in Mechanical Engineering 2H(A).
Tuesday and Thursday, 10 to 11, for the first half session *and/or* Monday and Wednesday, 10 to 11, for the first half session.
EXAMINATION: 2 two-hour papers; 1 two-hour paper for each additional option.

For the degree of Bachelor of Science in applied science (*electrical engineering*)

Mathematics 2EE

First or second year.
Components A(2) and P(1).
Monday and Thursday, 12 to 1.
Tuesday, Wednesday and Friday, 12 to 1.
EXAMINATION: 3 papers.

Mathematics 3EE

Second or third year.
Components A, B, C*, and F.
Monday and Wednesday, 12 to 1, for the first half session;
Monday and Wednesday, 12 to 1, for the second half session;
Friday, 12 to 1, for the first half session and third term.
Tuesday and Thursday, 10 to 11, for the second half session.
EXAMINATION: 4 two-hour papers.

Mathematics 4EE(1)

Third and fourth years; two hours a week for half a session at times to be arranged.
Linear and non-linear differential equations.
EXAMINATION: 1 paper.

Mathematics 4EE(2)

Third and fourth years; two hours a week for half a session at times to be arranged.
Topics selected in consultation with the Department of Electrical and Electronic Engineering.
EXAMINATION: 1 paper.

For the degree of Bachelor of Science in applied science (control engineering)

Mathematics 2CG

Second year.
Components A(2) and P(1).
Monday and Thursday, 12 to 1.
Tuesday, Wednesday and Friday, 12 to 1.
EXAMINATION: 3 papers.

Mathematics 3CG(1)

Third year.
Components A and D.
Tuesday and Thursday, 10 to 11, for the first half session *or* Monday and Wednesday, 12 to 1, for the first half session.
Friday, 11 to 12.

Mathematics 3CG(2)

Third year.
Component F.
Monday and Wednesday, *or* Tuesday and Thursday, 10 to 11, for the second half session.

Mathematics 4CG

Third year; two hours a week for half a session at times to be arranged.
Topics selected in consultation with the Department of Electrical and Electronic Engineering.
EXAMINATION: 1 paper.

For the degree of Bachelor of Science in applied science (chemical engineering)

Mathematics 2CE

First or second year.
Components A(3) and P(1).
Tuesday, 9 to 10.
Monday, Wednesday and Friday, 9 to 10.
EXAMINATION: 3 papers.

Mathematics 3CE

Second or third year.
Components B and F.
Monday and Wednesday, 10 to 11, for the first half session;
Monday and Wednesday, 10 to 11, for the second half session.
EXAMINATION: 2 two-hour papers.

For the degree of Bachelor of Science in applied science (applied mineral sciences)

Mathematics 2AM

First or second year.
Components A(3) and P(3).
Tuesday, 9 to 10.
Monday, Wednesday and Friday, 9 to 10 for the first half session; Friday, 9 to 10 for the second half session.
EXAMINATION: 3 papers.

For the degree of Bachelor of Science in applied science (ceramics)

Mathematics 2CR

First or second year.
Components A(3) and P(1).
Tuesday, 9 to 10.
Monday, Wednesday and Friday, 9 to 10.
EXAMINATION: 3 papers.

For the degree of Bachelor of Science in applied science (fuel science)

Mathematics 2FU

First or second year.
Components A(3) and P(1).
Tuesday, 9 to 10.
Monday, Wednesday and Friday, 9 to 10.
EXAMINATION: 3 papers.

For the degree of Bachelor of Science in applied science (mining)

Mathematics 2MI

First or second year.
Components A(3) and P(3).
Tuesday, 9 to 10.
Monday, Wednesday and Friday, 9 to 10, for the first half session; Friday, 9 to 10 for the second half session.
EXAMINATION: 3 papers.

For the degree of Bachelor of Science in applied science (metallurgy)

Mathematics 2MT

First or second year.
Components A(3), P(1) and S.
Tuesday, 9 to 10.
Monday, Wednesday and Friday, 9 to 10.
Wednesday, 10 to 11.
EXAMINATION: 4 papers.

For the degree of Bachelor of Science in applied science (textile engineering)

Mathematics 2TE

First or second year.
Components A(1) and P(1).
Monday and Friday, 10 to 11.
Tuesday, Wednesday and Friday, 12 to 1.
EXAMINATION: 3 papers.

For the degree of Bachelor of Science in applied science (textile physics)

Mathematics 2TP

First or second year.
Components A(1) and P(1).
Monday and Friday, 10 to 11.
Monday, Wednesday and Friday, 9 to 10.
EXAMINATION: 3 papers.

Pharmacology

Pharmacology 2A

Acceptance requirement: a pass in first-year chemistry, or equivalent performance at advanced level, is normally required.
Second year; Monday, 10.30 to 11.30; Thursday, 9 to 10; Friday, 2 to 3; laboratory work, Tuesday, 9 to 1. Tutorials at times to be arranged.
The development and scope of pharmacology. Introduction to theories of drug action and of factors modifying drug action. The physico-chemical and biological bases of drug action. Biological variation, principles of biological assay and elements of statistics.
EXAMINATION: 1 paper and assessment of practical work. An oral examination may be required.

Pharmacology 3A

Third year; Tuesday, 11 to 12 on alternate weeks; Wednesday, 9 to 10; Friday, 2 to 3; laboratory work, Tuesday, 10 to 5 on alternate weeks. Tutorials and essays to be arranged.
Molecular structure and chemical reactivity in relation to drug action. A systematic survey of the development, actions and uses of drugs.
EXAMINATION: 2 papers and assessment of practical work. An oral examination may be required.

Pharmacology 4A

Fourth year; Tuesday and Friday, 9 to 10, and one other hour to be arranged; laboratory work, additional lectures and tutorials, approximately 8 hours per week, at times to be arranged.
More advanced study of topics introduced in Pharmacology 3A, and of quantitative pharmacology and statistical methods. Survey of modern techniques for the separation, characterisation and estimation of drugs and biologically active substances.
EXAMINATION: 3 papers and assessment of practical work. An oral examination may be required.

For the degree of Bachelor of Science in pharmacology

Pharmacology 3FM

Third year; Tuesday, 11 to 12 on alternate weeks; Tuesday, Wednesday, Thursday, Friday, 9 to 10; Friday, 2 to 3; laboratory work as for Pharmacology 3A plus Thursday, 10 to 5 on the alternate weeks. Tutorials, essays and directed reading to be arranged.
A systematic study of the actions and uses of drugs. Relative specificity of action. Receptor theory. Selective toxicity and chemotherapy. Relationship of chemical structure to biological activity, especially stereochemical and conformational aspects. Drug metabolism. Development of new drugs. Laboratory screening for activity and toxicity. Clinical testing and trial. Legal and social aspects of drug development. More advanced study of quantitative pharmacology and statistical methods. Modern techniques for the separation, characterisation and estimation of drugs and biologically active substances.
EXAMINATION: 3 papers and assessment of practical work. An oral examination may be required.

Pharmacology 4FM

Fourth year; a full-time course of advanced lectures, tutorials, seminars and practical work, including individual project work.
In addition to general advanced studies, each student will be required to select from a number of options particular topics appropriate to his special interests, including in the first term the possibility of a course in an approved related field taken in another department. The second half of the second term will be devoted to an individual research project.
EXAMINATION: 3 papers, an oral examination, assessment of practical work and a report on the individual project.

Pharmacology 4MS

A one-year course of full-time work, based on Pharmacology 4FM and including some topics from Pharmacology 3FM.
EXAMINATION: 3 papers, an oral examination, assessment of practical work and a report on the individual project.

Physics

Physics 1A

First year; Tuesday, 10 to 11 or 12 to 1; Thursday, 10 to 11 or 12 to 1; Friday, 2 to 3, or Saturday, 10 to 11; and 3 hours' a week laboratory work at times to be arranged. The same times for lectures and laboratory work must be adhered to throughout the session.
The course, which includes experimental demonstrations, covers the main branches of physics in an elementary manner under the headings: matter and motion; heat, light and atoms; electricity and magnetism.
This is a one-year course designed to bring students to a level equivalent to a good grade in the advanced level of the General Certificate of Education. An aptitude for physics and some prior knowledge of mathematics is needed for the course.
EXAMINATION: 1 paper and laboratory work during the course.

Physics 2A

Second year; Monday, Tuesday and Wednesday, 11 to 12; Thursday, 2 to 5; Friday, 11 to 12 and 2 to 4.
This course is provided for students in combined schemes of study who expect to proceed to further courses in physics. The main topics dealt with are: electricity, vibrations and waves, thermal and kinetic properties of matter, and atomic physics.
EXAMINATION: 2 papers and laboratory work during the course.

Physics 2B

Second year; Monday, Wednesday and Friday, 11 to 12; and a minimum of 3 hours' a week laboratory work at times to be arranged.
A course providing a general survey of the main fields of classical and modern physics complete in itself.
EXAMINATION: 2 papers and laboratory work during the course.

Physics 3A

Third year; Lectures and tutorials: Monday, Wednesday, Thursday, 11 to 12; Friday, 2 to 3; and 5 hours' laboratory work at times to be arranged.
Electromagnetism, thermodynamics and statistical mechanics, quantum theory, nuclear physics.
EXAMINATION: 2 papers, and exercises and laboratory work during the course.

Physics 4A

Fourth year; 4 lecture hours and 5 hours' laboratory work, weekly at times to be arranged.
Electromagnetism and relativity, quantum theory, properties of matter, nuclear physics.
EXAMINATIONS: 3 papers, and exercises and laboratory work during the course.

For the degree of Bachelor of Science in physics

Physics 1PX

First year; Monday, 11 to 12; Wednesday and Thursday, 10 to 11; 6 hours' a week laboratory work and tutorial classes at times to be arranged.
Atomic theory and kinetic theory, mechanics and waves, electricity.
EXAMINATION: 1 paper, and exercises and laboratory work during the course.

Physics 1P

First year; Monday, 11 to 12; Wednesday and Thursday, 10 to 11; 6 hours a week laboratory work and tutorial classes at times to be arranged.
Atomic theory and kinetic theory, mechanics and waves, electricity.
EXAMINATION: 1 paper, and exercises and laboratory work during the course.

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Physics 2PX

Second year; Monday, Wednesday and Friday, 11 to 12; Tuesday, 2 to 3; 8 hours' a week laboratory work and tutorial classes at times to be arranged.
This course is intended for direct entrants into the second year of the scheme of study.
Atomic physics, states of matter, electricity, vibrations and waves.
EXAMINATION: 2 papers and exercises and laboratory work during the course.

Physics 2PX(B)

Second year; Monday and Friday, 9 to 10; Tuesday, 2 to 3, together with 6 hours' laboratory and tutorial work, weekly, at times to be arranged.
A course intended for students who have successfully completed the 1PX course.
Atomic physics, states of matter, electricity, vibrations and waves.
EXAMINATION: 2 papers and exercises and laboratory work during the course.

Physics 2P

Second year; Monday and Friday, 9 to 10; Tuesday, 2 to 3, together with 6 hours' laboratory and tutorial work, weekly, at times to be arranged.
A course intended for students who have successfully completed the 1PX course.
Atomic physics, states of matter, electricity, vibrations and waves.
EXAMINATION: 2 papers and exercises and laboratory work during the course.

Physics 3PX

Third year; Monday, Tuesday and Wednesday, 11 to 12; Monday, 12 to 1; Tuesday, 10 to 11; Friday, 2 to 3; and 10 hours' a week laboratory and classwork including Thursday, 9 to 1 and 2 to 5.
Relativity, electromagnetism, optics, electronics, thermodynamics and statistical mechanics, quantum theory, nuclear physics.
EXAMINATION: 3 papers and exercises and laboratory work during the course.

Physics 3P

Third year: 6 hours' lectures a week and 10 hours' a week laboratory and class work at times to be arranged.
Thermodynamics, electronics, optics, geophysics, properties of matter, radiation and nuclear physics.
EXAMINATIONS: 3 papers, and exercises and laboratory work during the course.

Physics 4PX

Fourth year; 6 lectures and 12 hours' a week laboratory and tutorial work at times to be arranged.
Electromagnetism, quantum theory, properties of matter, nuclear physics, electronics, together with *either* theoretical physics* *or* one of a few alternative courses in particular fields of experimental physics.
EXAMINATION: 5 papers, together with an assessment of exercises and laboratory work undertaken during the course.

For the degree of Bachelor of Science in applied science

Physics 2T

First or 2nd year; Tuesday, Thursday and Friday, 12 to 1; and 3 hours' a week laboratory work at times to be arranged; classes to be held in the Houldsworth School.
Matter, waves and electricity.
EXAMINATION: 2 papers and laboratory work during the course.

*Students taking the theoretical physics option will be required to do less laboratory work; only students of suitable aptitude will be allowed to take this option.

For the degree of Bachelor of Science in electrical engineering

Physics 2EE

First or 2nd year; Monday, 9 to 10; Thursday, 10 to 11; Friday, 11 to 12; and one tutorial class weekly.
The physical basis of the properties of electrical engineering materials.
EXAMINATION: 1 paper and assessment of course work.

For the degree of Bachelor of Science in physics-electronic engineering (combined)

Physics 2C

Second year; 3 hours' lectures a week, and 5 hours' a week laboratory work, at times to be arranged.
Vibrations and waves; thermal and kinetic properties of matter; atomic physics.
EXAMINATION: 2 papers and exercises and laboratory work during the course.

Physics 3C

Third year; 2½ hours a week lectures.
Statistical mechanics; atomic and nuclear physics.
EXAMINATION: 2 papers and exercises.

Physics 4C

Fourth year; 2 hours a week lectures.
Properties of matter; quantum mechanics.
EXAMINATION: 2 papers.

For the degree of Bachelor of Music

Physics 1MU

First or 2nd years; Thursday, 2 to 3.
The physical basis of music approached experimentally rather than mathematically.

Physiology

Physiology 2A

Acceptance requirement: Passes in first-year courses in chemistry and physics, or equivalent performance at advanced level, are normally required.
Second year; Monday, Wednesday and Friday, 9 to 10; laboratory work, Monday and Thursday, 2 to 5.
This is a one-year course which provides an introduction to structural and physiological principles of cellular activity and an introduction to animal and human physiology; a general survey of the circulatory, respiratory and renal systems, together with an introduction to control of activity by endocrine and nervous systems.
EXAMINATION: 1 paper and assessment of practical work. An oral examination may be required.

Physiology 3A

Third year; lectures, Monday 9 to 10, Wednesday, 11 to 12, and Friday, 12 to 1; laboratory work, Monday, 10 to 5.
An extended study of some topics already introduced in the 2A course, together with a study of integrative aspects of physiology.
EXAMINATION: 2 papers and assessment of practical work. An oral examination may be required.

Physiology 4A

Fourth year; lectures and practical work to be arranged.
A course which entails a study of advanced experimental methods and recent advances in selected topics.
This course must be preceded by Physiology 2A and 3A.
EXAMINATION: 3 papers, assessment of laboratory work and an oral examination.

For the degree of Bachelor of Science in physiology

Physiology 2FI
Second year; as for Physiology 2A.

Physiology 3FI
Third year; as for Physiology 3A. Additional tutorials and seminars are arranged.

Physiology 4FI
Fourth year; lectures and practical work at times to be arranged.
The course entails the study of advanced experimental methods and the detailed study of some recent advances in the subject.
EXAMINATION: 4 papers, assessment of laboratory work, and an oral examination.

Psychology

Psychology 1C
First year; Monday, 10 to 11 and 3 to 4; Thursday, 2 to 3; experimental exercises and tutorials at times to be arranged.
An introduction to psychology; the study of human behaviour by empirical methods; biological foundations of psychology; personality and individual differences; statistics and the design of experiments.
EXAMINATION: 2 papers.

For the degree of Bachelor of Arts in psychology and sociology (combined) and for the first year of the degree of Bachelor of Arts in philosophy and psychology (combined)

Psychology 1J
First year; Monday, 10 to 11 and 3 to 4; Thursday, 2 to 3; experimental exercises and tutorials at times to be arranged.
An introduction to psychology; the study of human behaviour by empirical methods; biological foundations of psychology; personality and individual differences; statistics and the design of experiments.
EXAMINATION: 2 papers.

For the degree of Bachelor of Arts in psychology and sociology (combined)

Psychology 2J
Second year; 5 hours' lectures, laboratory work and tutorial classes at times to be arranged.
Perception; cognitive psychology; developmental psychology; individual differences and psychometrics; social psychology; selected area of applied psychology.

Psychology 3J
Third year; 5 hours' lectures, laboratory work and tutorial classes at times to be arranged.
Learning; cognitive psychology; thinking and language; social psychology; selected area of applied psychology; option.
EXAMINATION: 3 compulsory papers; 1 or 2 papers on options; assessment of practical work. An oral examination may also be required.

For the degree of Bachelor of Arts in philosophy and psychology (combined)

Psychology 2K
Second year; 5 hours' lectures, laboratory work and tutorial classes at times to be arranged.
Perception; cognitive psychology; developmental psychology; individual differences and psychometrics; social psychology; the history and methodology of psychology.

Psychology 3K
Third year; 5 hours' lectures, laboratory work and tutorial classes at times to be arranged.
Learning; cognitive psychology; thinking and language; social psychology; option.
EXAMINATION: 4 compulsory papers; 1 paper on option; assessment of practical work. An oral examination may also be required.

For the degree of Bachelor of Science in two main subjects combined

Psychology 2A

Second year; Monday, Tuesday and Friday, 10 to 11; Monday, 3 to 4; practical work Friday, 11 to 12; and tutorial work for 1 hour a week at times to be arranged.
Biological psychology, psychometrics, social psychology and experimental psychology.
EXAMINATION: 2 papers.

Psychology 3A

Third year; Monday and Friday, 11 to 12; Tuesday, 12 to 1; and one of Monday, 2 to 3 or Saturday, 9 to 10, Tuesday, 9 to 10, Friday, 9 to 10; 3 hours of laboratory work and tutorial work for 1 hour a week at times to be arranged.
The course will have one of the following two syllabuses, which are given in alternate years:
(a) Mathematical psychology, genetics and human development, memory and learning, together with an option chosen from: the history and philosophy of psychology, language and thinking, educational psychology.
(b) Mathematical psychology, personality, behaviour theory, together with an option chosen from: recent history of psychology, communication, educational psychology.
EXAMINATION: 2 papers.

Psychology 4A

Fourth year; Monday and Tuesday, 12 to 1; Thursday, 9 to 10; Friday, 10 to 11 and 11 to 12; 3 hours of laboratory work and tutorial work for 1 hour a week at times to be arranged.
The course will have one of the following two syllabuses which are given in alternate years:
(a) Mathematical psychology, social psychology, perceptual functions, personality, behaviour theory.
(b) Mathematical psychology, social psychology, perceptual functions, genetics and human development, memory and learning.
EXAMINATION: 3 papers covering the content ot Psychology 2A, 3A and 4A, together with practical examinations. An oral examination may be required,

For the degree of Bachelor of Science in psychology

Psychology 1PS

First year; Monday, 10 to 11 and 3 to 4; Thursday, 2 to 3; experimental exercises and tutorials at times to be arranged.
An introduction to psychology; the study of human behaviour by empirical methods; biological foundations of psychology; personality and individual differences; statistics and the design of experiments.
EXAMINATION: 2 papers.

Psychology 2PS

Second year; 10 hours' lectures; laboratory work and tutorial classes at times to be arranged.
Perception; learning; cognitive psychology; thinking and language; developmental and educational psychology; individual differences and psychometrics; social psychology; mathematical psychology.
EXAMINATION: 2 papers.

Psychology 3PS

Third year; 12 hours' lectures; practical work and tutorial classes at times to be arranged.
An extended study of perception; learning and memory; cognitive and social psychology; motivation and emotion; comparative and physiological psychology; abnormal and clinical psychology; occupational psychology and vocational guidance; theoretical and historical issues.
EXAMINATION: 2 papers and a practical examination.

Psychology 4PS
Fourth year; 10 hours' lectures; practical work; tutorial classes and seminars at times to be arranged.
An extended and integrative study of topics introduced in previous years; advanced study of three topics selected from a number of options. Each student will also be required to complete an individual research project.
EXAMINATION: 6 papers, together with an assessment of the project undertaken during the year. An oral examination may also be required. The results of Psychology 3PS will be taken into account in the final examination.

For the ordinary degree of Bachelor of Science in psychology

Psychology 3P
Third year; 7 hours' lectures and tutorial classes a week at times to be arranged.
EXAMINATION: 2 papers and a practical examination.

Statistics (see Mathematics)

Zoology

Zoology 1A
First year; lectures, Monday and Friday, 11 to 12; laboratory work, *either* Monday and Thursday, 2 to 4, *or* Tuesday, 2 to 4, and Wednesday, 9 to 11.
An introduction to basic concepts and techniques in the principal fields of zoology, including comparative anatomy and physiology, cytology, genetics, embryology and evolution.
EXAMINATION: 1 theory paper and a practical examination.

Zoology 2A
Second year; lectures, Monday, Tuesday and Wednesday, 11 to 12; laboratory work, *either* Tuesday *or* Wednesday, 2 to 5, and *either* Thursday, 10 to 1 *or* Friday, 9 to 12.
Systematics, comparative morphology, interrelationships and general bionomics of invertebrates; ecology; genetics; animal interactions and associations.
EXAMINATION: 1 theory paper and a practical examination.

Zoology 3A
Third year; lectures, Wednesday, 9 to 10 and 12 to 1; Thursday, 4 to 5; laboratory work, *either* Tuesday, 11 to 5 *or* Thursday, 10 to 4.
Comparative anatomy, functional adaptations, embryology and evolution of the vertebrates; comparative animal physiology including endocrinology, water relationships, nutrition, respiration, homeostasis and behaviour.
EXAMINATION: 1 theory paper and a practical examination.

Zoology 3B
Third year; lectures, Tuesday, 10 to 11; Wednesday, 11 to 12; laboratory work, Monday and Friday, 2 to 5.
Ecology, parasitology, entomology, marine biology, animal mechanics and neurophysiology.
EXAMINATION: 1 theory paper and a practical examination.

Zoology 4A
Fourth year; 3B course as above, plus 1 hour a week tutorial, 1 lecture a week on evolutionary topics at times to be arranged, and 1 personal project.
EXAMINATION: 3 theory papers and 1 practical examination.

Zoology 4ZO
Fourth year; lectures and laboratory work at times to be arranged.
Physiological topics, including vertebrate endocrinology, neurophysiology, cytology and cell physiology, and nutrition. Ecological topics, including dispersal patterns, population dynamics and regulation, parasitology and marine ecology. Both groups of topics include a personal project, lectures, laboratory and field work, tutorials and seminars.
EXAMINATION: 5 theory papers and 2 practical examinations.

FACULTY OF APPLIED SCIENCE

Agricultural Sciences

For the degrees of Bachelor of Science with honours in agricultural botany, agricultural chemistry, agricultural science and agricultural zoology

Agricultural Biology 2F

Second year; 3 lectures and 5 hours' laboratory work a week.
An introduction to the organisation and function of microbial and higher organisms. Elementary biometry and genetics.
EXAMINATION: 1 paper and an assessment of practical work. A practical examination may be required.

Agricultural Statistics 4AG

Fourth year; 4 hours a week.
An introductory course in agricultural statistics.
EXAMINATION: 1 paper.

For the degrees of Bachelor of Science with honours in agricultural botany, agricultural chemistry, and agricultural science

Agricultural Chemistry 3F(1)

Third year; 2 lectures and 3* hours' laboratory work a week.
The formation, fertility and deterioration of soil. Soil classification and mapping. Fertilizers and manures. Chemistry of plant nutrition.
EXAMINATION: 1 paper and an assessment of practical work. A practical examination may be required.

For the degrees of Bachelor of Science with honours in agricultural botany and agricultural science

Agricultural Botany 3F

Third year; 3 lectures and 5 hours' laboratory work a week.
Development physiology, plant breeding, pathology and ecology.
EXAMINATION: 1 paper and an assessment of practical work. A practical examination may be required.

For the degrees of Bachelor of Science with honours in agricultural chemistry and agricultural science

Agricultural Chemistry 3F(2)

Third year; 2 lectures and 3* hours' laboratory work a week.
The physiological chemistry of farm animals. Nutritional deficiency diseases. The role of micro-organisms in nutrition. The chemistry of milk.
EXAMINATION: 1 paper and an assessment of practical work. A practical examination may be required.

For the degrees of Bachelor of Science with honours in agricultural science and agricultural zoology

Agricultural Zoology 3F(1)

Third year; 3 lectures and 3 hours' laboratory work a week.
The anatomy, physiology and pathology of farm animals.
EXAMINATION: 1 paper and an assessment of practical work. A practical examination may be required.

* For the scheme of study in agricultural chemistry the total laboratory work attached to the agricultural chemistry 3F(1) and 3F(2) courses will be reduced to 3 hours a week.

For the degree of Bachelor of Science with honours in agricultural botany

Agricultural Botany 4F

Fourth year; 4 lectures a week and laboratory work with tutorial classes and seminars.
Advanced study of aspects of agricultural botany, in particular, plant breeding and crop improvement, the physiology of crop plants, plant pathology, ecology and systematics. Statistics.
EXAMINATION: 4 papers, a practical examination and an oral examination.

For the degree of Bachelor of Science with honours in agricultural chemistry

Agricultural Chemistry 4F

Fourth year; 4 lectures a week and laboratory work with tutorial classes and seminars.
Soil/plant chemistry option: soil science and plant nutrition; plant biochemistry and physiology; pedology. Statistics.
Animal chemistry option: animal nutritional biochemistry and physiology. Statistics.
EXAMINATION: 4 papers, a practical examination and an oral examination.

For the degree of Bachelor of Science with honours in agricultural science

Agricultural Science 3F

Third year; 4 lectures a week and 4 hours' laboratory work a week.
Pastures, their composition and utilization; conservation and storage of farm crops, feed processing and compounding; statistics; and *either*

(a) crop ecology; the effect of the environment on crop plants, the bionomics of weeds and of crop-infesting nematodes and insects
or (b) the influence of physiology, nutrition and environment on growth development, reproduction and lactation in farm animals.

EXAMINATION: 1 paper and an assessment of practical work. A practical examination may be required.

Agricultural Science 4F(A)

Fourth year; 4 lectures a week and laboratory work with tutorial classes and seminars.
General animal physiology; nutritional physiology; applied animal nutrition and physiology; animal breeding.
EXAMINATION: 4 papers, a practical and oral examination.

Agricultural Science 4F(B)

Fourth year; 4 lectures a week and laboratory work with tutorial classes and seminars.
Plant breeding and crop improvement; crop ecology and agronomy; soil science and plant nutrition; crop protection.
EXAMINATION: 4 papers, a practical and oral examination.

For the degree of Bachelor of Science with honours in agricultural zoology

Agricultural Zoology 3F(2)

Third year; 3 lectures and 5 hours' laboratory work a week.
Crop entomology and nematology.
Veterinary and medical protozoology and helminthology.
EXAMINATION: 1 paper and an assessment of practical work. A practical examination may be required.

Agricultural Zoology 4F

Fourth year; 4 lectures a week and laboratory work with tutorial classes and seminars.
Advanced study of crop, veterinary and medical entomology and acarology; crop protection; animal physiology. Statistics.
EXAMINATION: 4 papers, a practical examination and an oral examination.

For the degree of Bachelor of Science

Agricultural Botany 2A

Second year; 3 lectures and 4 hours' laboratory work a week.
Development physiology, plant breeding, pathology and ecology.
EXAMINATION: 1 paper and an assessment of practical work. A practical examination may be required.

Agricultural Chemistry 2A

Second or 3rd year; 2 lectures and 6 hours' laboratory work a week.
The formation, fertility and deterioration of soils. Soil classification and mapping. Fertilisers and manures. Plant nutrition.
EXAMINATION: 1 paper and an assessment of practical work. A practical examination may be required.

Agricultural Chemistry 2B

Second or 3rd year; 2 lectures and 6 hours' laboratory work a week.
The physiological chemistry of farm animals. Nutritional deficiency diseases. The role of micro-organisms in nutrition. The chemistry of milk.
EXAMINATION: 1 paper and an assessment of practical work. A practical examination may be required.

Agricultural Zoology 2A

Second or 3rd year; 3 lectures and 3 hours' laboratory work a week.
The anatomy, physiology and pathology of farm animals.
EXAMINATION: 1 paper and an assessment of practical work. A practical examination may be required.

Agricultural Zoology 2B

Second or 3rd year; 3 lectures and 5 hours' laboratory work a week.
Crop entomology and nematology. Veterinary and medical protozoology and helminthology.
EXAMINATION: 1 paper and an assessment of practical work. A practical examination may be required.

Applied Mineral Sciences (see Mining and Mineral Sciences)

Architecture (see Civil Engineering)

Ceramics

Ceramics 1T

First, 2nd or 3rd year; 1 hour a week.
An introductory course in ceramics and other non-metallic materials.
EXAMINATION: 1 paper.

For the degree of Bachelor of Science with honours in chemical engineering

Ceramics 2CE

Second or 3rd year; 1 hour a week.
Non-metallic materials of construction.
EXAMINATION: 1 paper.

For the degree of Bachelor of Science in metallurgy

Ceramics 2MT

Second or third years; 1 lecture a week and 3 hours a week laboratory for 8 weeks.
A general review of ceramics, with particular reference to the application of refractory materials in metallurgy.
EXAMINATION: 1 paper.

For the degree of Bachelor of Science with honours in ceramics

Ceramics 1F

First year; 1 hour a week.
Introduction to ceramic science and technology.
EXAMINATION: 1 paper.

Ceramics 2F

Second year; 3 hours a week.
Ceramic raw materials; crystallography and optical mineralogy; introductory ceramic science.
EXAMINATION: 2 papers.

Ceramics 3F

Third year; 7 hours a week.
Basic chemistry and physics of ceramics; the equilibrium state; solid state kinetics; crystallography and diffraction; structural chemistry of ceramics; science of interfaces; advanced experimental methods; physics of non-metallic solids 1.
Ceramics seminar.
EXAMINATION: 3 papers.

Ceramics 4F

Fourth year; 11 hours a week.
Physics of non-metallic solids 2; pottery; heavy clayware; vitreous enamels; refractory materials; electrical and magnetic ceramics; ceramics for mechanical and nuclear engineering; glass science and technology; cement science and technology; advanced topics in ceramics; calculations in ceramic science.
Ceramics seminar.
EXAMINATION: 4 papers.

For the degree of Bachelor of Science in two main subjects

Ceramics 2A

Second year; Wednesday, 10 to 11; Thursday, 9 to 10; Friday, 11 to 12 plus one hour per week of laboratory work at a time to be arranged individually.
An introduction to ceramics; science of interfaces; advanced experimental methods.
EXAMINATION: 2 papers.

Chemical Engineering

For the ordinary degree of Bachelor of Science in dyeing and the degree of Bachelor of Science with honours in colour chemistry

Chemical Engineering 2CC

Third year; 2 lectures a week.
Chemical process principles; unit operations.
EXAMINATION: 1 paper.

For the ordinary degree of Bachelor of Science in fuel and combustion science and the degree of Bachelor of Science with honours in fuel and combustion science and in fuel and combustion engineering

Chemical Engineering 2FE

Second or third year; 1 lecture a week.
Heat transfer.
EXAMINATION: 1 paper.

For the ordinary degree of Bachelor of Science and the degree of Bachelor of Science with honours in metallurgy

Chemical Engineering 2MT

Second or third year; 1 lecture a week.
Process instrumentation.
EXAMINATION: 1 paper.

For the degree of Bachelor of Science with honours in metallurgy

Chemical Engineering 3MT

Third or fourth year; 1 lecture a week.
Heat transfer for students of metallurgy.
EXAMINATION: 1 paper.

For the ordinary degree of Bachelor of Science and the degree of Bachelor of Science with honours in chemical engineering

Chemical Engineering 1F

First year; an average of 2½ lectures a week, 2½ hours a week drawing office, and 2 hours a week computer programming.
Chemical process principles; unit operations; engineering drawing; computer programming.
EXAMINATION: 2 papers.

Chemical Engineering 2F

Second year; 2 lectures a week, 3 hours a week drawing office.
Power thermodynamics; chemical engineering design.
EXAMINATION: 1 paper.

For the degree of Bachelor of Science with honours in chemical engineering

Chemical Engineering 3F

Third year; 4 lectures a week and 3 hours a week laboratory work for 5 weeks.
Heat transfer; fluid mechanics; process instrumentation and control.
EXAMINATION: 3 papers.

Chemical Engineering 1H

First year; an average of 3½ lectures a week, 2½ hours a week drawing office, and 2 hours a week computer programming.
Chemical process principles; unit operations; engineering drawing; computer programming; power thermodynamics.
EXAMINATION: 3 papers.

Chemical Engineering 2H

Second year; 5 lectures a week, 3 hours a week drawing office and 3 hours a week laboratory work for 5 weeks.
Chemical engineering design; heat transfer; fluid mechanics; process instrumentation and control.
EXAMINATION: 3 papers.

Chemical Engineering 3H(A)

Third or 4th year; an average of 9½ lectures a week, 10 hours a week laboratory work and design project. Advanced heat transfer; advanced fluid mechanics; diffusional processes; cascade processes; particle dynamics; chemical reactor design; economics and management; process control; statistics.

EXAMINATION: 6 papers.

Chemical Engineering 3H(B)

Third or 4th year; an average of 7 lectures a week, and 9½ hours a week laboratory work and design project. Diffusional processes; particle dynamics; chemical reactor design; process control; investment economics; management techniques; statistics.

EXAMINATION: 5 papers.

For the ordinary degree of Bachelor of Science

Chemical Engineering 3P

Third year; an average of 6½ lectures a week and 5½ hours a week laboratory work and design project.

Fluid mechanics; heat transfer; process instrumentation; diffusional processes; particle dynamics; economics and management; statistics.

EXAMINATION: 5 papers.

Civil Engineering

Civil Engineering 1H

First or 2nd year: 6 hours a week plus 8 hours' drawing office, laboratory and examples classes.

Easter vacation computing course of approximately one week's duration.

Civil engineering: theory of structures; architecture and construction; surveying; fluid mechanics; engineering graphics and design.

Mechanical engineering: strength of materials; thermodynamics.

Electrical engineering.

EXAMINATION: 5 papers.

Civil Engineering 2H

Second or 3rd year; 7 hours a week plus 9 hours' drawing office, laboratory and examples classes.

Easter vacation surveying course of approximately two weeks' duration.

Theory and design of structures; structural analysis; hydrology and water engineering; surveying; soil mechanics; strength of materials; fluid mechanics; highway engineering; engineering design; building science (or an approved alternative subject).

EXAMINATION: 7 papers.

Civil Engineering 3H(A)
Third or 4th year; 7½ hours a week plus 7 hours' drawing office and laboratory, plus project.
Theory and design of structures; structural analysis; soil mechanics; and *three* of the following: fluid mechanics; surveying, planning and resource development; building science; stress analysis; hydrology and water engineering; highway engineering; aircraft structures; plates and shells; organisation of construction; an approved alternative subject (e.g. Geology 2CV).
Further courses in *three* of the chosen course components; a project or dissertation in one chosen course component.
EXAMINATION: 8 papers and, for one of the optional components, either one paper or a series of essays.

Civil Engineering 3H(B)
Third or 4th year; 6 hours a week plus 7 hours' drawing office and laboratory.
Theory and design of structures; structural analysis; soil mechanics; and *three* of the following: fluid mechanics; surveying, planning and resource development; building science; stress analysis; hydrology and water engineering; highway engineering; aircraft structures; plates and shells; organisation of construction; an approved alternative subject (e.g. Geology 2CV).
EXAMINATION: 6 papers.

Civil Engineering 3H(C)
Third or 4th year; 9 hours a week plus 7 hours' drawing office and laboratory.
Theory and design of structures; structural analysis; soil mechanics; and *six* of the following: fluid mechanics; surveying, planning and resource development; building science; stress analysis; hydrology and water engineering; highway engineering; aircraft structures; plates and shells; organisation of construction; an approved alternative subject (e.g. Geology 2CV).
EXAMINATION: 9 papers.

Architecture 2CV
Second or 3rd year; 8 hours a week lectures, tutorials and studio work.
History of architecture, including aspects of landscape and civic design, and of the history and philosophy of science and technology. Graduated studio projects emphasising, in combination with structural analysis, non-structural aspects of design.
EXAMINATION: 1 paper plus course work assessment.

Architecture 3CV
Third or 4th year; 8 hours a week lectures, tutorials and studio work.
Theory in modern architecture; developing aspects in construction technology; town planning; special study in the history of architecture. Graduated studio projects.
Candidates for this course must have achieved a satisfactory high standard in Architecture 2CV.
EXAMINATION: 1 paper plus course-work assessment.

For the degree of Bachelor of Science with honours in architectural engineering

Civil Engineering 2H(D)
Second or third year; 7 hours a week plus 9 hours studio project.
Easter vacation surveying course of approximately two weeks' duration.
Theory and design of structures; structural analysis; hydrology and water engineering; surveying; soil mechanics; strength of materials; fluid mechanics; engineering design; building science; highway engineering (or an approved alternative subject).
EXAMINATION: 7 papers.

Civil Engineering 3H(D)
Third or fourth year; 6 hours a week plus 7 hours studio project.
Theory and design of structures; structural analysis; soil mechanics; building science; construction management; and *one* of the following: fluid mechanics; surveying, planning and resource development; stress analysis; hydrology and water engineering; highway engineering; aircraft structures; plates and shells; an approved alternative subject (e.g. Geology 2CV).
EXAMINATION: 6 papers.

Colour Chemistry and Dyeing

For the ordinary degree of Bachelor of Science in dyeing and the degree of Bachelor of Science with honours in colour chemistry

Dyeing 2F

Second year; Monday 10 to 11 and 12 to 1, Wednesday 12 to 1; and laboratory work at times to be arranged.
The classification of textile fibres and dyes; colour perception, colour mixing and colour matching, colour fastness; the dyeing of protein fibres. The chemistry and properties of organic high polymers; surface chemistry; water treatment.
EXAMINATION: 2 papers.

Dyeing 3F

Third year; Monday and Tuesday 12 to 1 and Friday 11 to 12; and laboratory work at times to be arranged.
The dyeing of natural and man-made fibres; textile printing; theory of dyeing; colour and colour measurement.
EXAMINATION: 1 paper, and assessment of the year's practical work.

Colour Chemistry 1F

First year: one hour a week in the first term at times to be arranged.
Psychology of colour, colour vision and physiology, molecular origins of colour, substrates for colouration, the sorption of dyes by substrates, history of synthetic colouring matters, pigments, the manufacture of dyes and pigments, colour television and colour photography.
There will be no examination.

Colour Chemistry 3F

Third year; Wednesday, 11 to 12, and Friday 9.30 to 10.30; and laboratory work at times to be arranged.
The chemistry of intermediates and dyes.
EXAMINATION: 1 paper and assessment of the year's practical work.

For the degree of Bachelor of Science with honours in colour chemistry

Colour Chemistry 4F

Fourth year; 1st term, Monday, Tuesday and Thursday, 11 to 12, Wednesday, Thursday and Friday, 12 to 1; 2nd term; Monday, Tuesday and Thursday 11 to 12, Wednesday, Thursday and Friday, 12 to 1, Thursday 10 to 11, and laboratory work at times to be arranged.
The chemistry of dyes and pigments; modern physical techniques in organic chemistry; photochemistry of dyes; colour and constitution.
EXAMINATION: 4 papers and assessment of the year's practical work.

Dyeing 4F

Fourth year; Tuesday 10 to 11.
Advanced general and thermodynamic theory of dyeing.
EXAMINATION: 1 paper.

For the degree of Bachelor of Science with honours in textile chemistry

Dyeing 1TI

Third or fourth year; Thursday, 9 to 10.
A course in the theory and practice of textile coloration.

For the ordinary degree of Bachelor of Science in textile industries
For the degree of Bachelor of Arts in textile design, in textile management, and in economics and textile industries, and the postgraduate diploma in textile industries

Dyeing 1TD

Third year; Wednesday, 9 to 10.
A general course in textile coloration.

Control Engineering

For the ordinary degree of Bachelor of Science and for the degree of Bachelor of Science with honours in control engineering

Control Engineering 2F

6 hours a week plus 6 hours' laboratory plus 3 hours a week design/tutorial during the second half of session.
Conversion courses in mechanical engineering for students who have taken the first year of the four-year Honours scheme in Electrical and Electronic Engineering and conversion courses in electrical engineering for students who have taken the first year of the four-year Honours scheme in Mechanical Engineering, linear control system theory, control systems engineering, control systems design.
EXAMINATION: 3 papers and assessment of year's course work.

Control Engineering 3F(1)

Third year; 4½ hours a week average plus 6 hours a week laboratory for the second term only and 3 hours a week design/tutorial during the second half of session.
Linear and non-linear control system theory, control systems engineering, control systems design, project or dissertation.
EXAMINATION: 2 papers and assessment of year's course work.

Control Engineering 3F(2)

Third year; 3 hours a week average plus 6 hours a week laboratory for the first term only.
Mechanical engineering, electrical engineering, electromechanical analogies.
EXAMINATION: 2 papers and assessment of year's course work.

For the degree of Bachelor of Science with honours in control engineering

Control Engineering 2H

Second year; 12 hours a week plus 6 hours laboratory and 3 hours a week design/tutorial during the second half of session.
Mechanical engineering, including conversion lectures for students who have taken the first year of the three-year honours scheme in electrical and electronic engineering; electrical engineering, including conversion lectures for students who have taken the first year of the three-year honours scheme in mechanical engineering; electromechanical analogies; linear control system theory; control systems engineering; control systems design.
EXAMINATION: 5 papers, and assessment of the year's course work. The examiners may additionally require a practical examination.

Control Engineering 3H

Third or fourth year; 10 hours a week plus experimental and theoretical design project.
Mathematics 4CG, control system theory, control systems engineering, control systems design.
EXAMINATION: 5 papers and assessment of project.

Dyeing (see Colour Chemistry)

G156

Electrical and Electronic Engineering

For the ordinary degree of Bachelor of Science and for the degree of Bachelor of Science with honours in electrical and electronic engineering

Electrical and Electronic Engineering 1H

First year; 7 hours a week, plus 3 to 6 hours' laboratory with associated lectures.
Electric circuit theory; electromagnetism; electronic circuits; power conversion and circuits; principles of measurement; presentation of technical information.
EXAMINATION: 3 or 4 papers on lecture and laboratory work, and assessment of coursework.

The Engineer in Society 1EE

First year: 1 hour a week.
Communication, industrial and social structure, the economy, markets, the business company, capital investment, labour.
EXAMINATION: 1 2-hour paper.

Electrical and Electronic Engineering 2F

Second year; 6½ hours a week, plus 3 to 6 hours' laboratory with associated lectures.
Electric circuit theory; communication theory; electromagnetism; electronic circuits; electromechanical energy conversion; power systems.
EXAMINATION: 4 papers on lecture and laboratory work, and assessment of coursework.

Electrical and Electronic Engineering 2H(A)

Second year; 9½ hours a week, plus 3 to 6 hours' laboratory with associated lectures.
Electric circuit theory and linear systems; communication theory and linear transform analysis; electromagnetism; electronic circuits; control engineering; digital techniques; electromechanical energy conversion; power systems.
EXAMINATION: 6 papers on lecture and laboratory work, and assessment of coursework.

Electrical and Electronic Engineering 2H(B)

Second year; 9½ hours a week, plus 3 to 6 hours' laboratory with associated lectures.
Electric circuit theory; communication theory and linear transform analysis; electromagnetism; electronic circuits; control engineering; digital techniques; radiation and propagation.
EXAMINATION: 6 papers on lecture and laboratory work, and assessment of coursework.

Electrical and Electronic Engineering 2H(C)

Second year; 9 hours a week, plus 3 to 6 hours' laboratory with associated lectures.
Electric circuit theory; linear transform analysis; electromagnetism; applied physics; electronic circuits.
EXAMINATION: 6 papers on lecture and laboratory work, and assessment of coursework.

The Engineer in Society 2EE

Second year: 1 hour a week.
Management studies of the firm, input-conversion-output model and issues from model; law as applicable to the firm.
EXAMINATION: 1 2-hour paper.

Electrical and Electronic Engineering 3F(A)

Third year; 7½ hours a week, plus 3 to 6 hours' laboratory with associated lectures, and project or dissertation.
Electric circuit theory; communication theory; electronic circuits; control engineering; digital techniques; electromechanical energy conversion; power systems.
EXAMINATION: 5 papers on lecture and laboratory work, and assessment of coursework and of project or dissertation.

Electrical and Electronic Engineering 3F(B)

Third year; 7½ hours a week, plus 3 to 6 hours' laboratory with associated lectures, and project or dissertation.
Electric circuit theory; communication theory; electronic circuits; control engineering; digital techniques; radiation and propagation.
EXAMINATION: 5 papers on lecture and laboratory work, and assessment of coursework and of project or dissertation.

Electrical and Electronic Engineering 3H(A)

Third or 4th year; 8 hours a week, plus laboratory with associated lectures, and honours project or dissertation.
Mathematics 4EE(1); systems electronics; control engineering (1); together with *five* of the following:

Mathematics 4EE(2); communication theory; field theory; control engineering (2); digital techniques; electromechanical energy conversion (1) and (2); power systems (1) and (2); applied physics and high voltage engineering.

EXAMINATION: 6 papers on lecture and laboratory work or the equivalent (depending upon options selected), and assessment of coursework and of honours project or dissertation.

This course normally requires previous attendance at Electrical and electronic engineering 2H(A) or 3F(A). Students who have attended Electrical and electronic engineering 2H(B) or 3F(B) could also take it, but would be restricted to the first five options.

Electrical and Electronic Engineering 3H(B)

Third or 4th year; 8 hours a week, plus laboratory with associated lectures, and honours project or dissertation.
Mathematics 4EE(1); electric circuit theory; communication theory; electronic circuits; control engineering; digital techniques; radiation and propagation.
EXAMINATION: 6 papers on lecture and laboratory work, and assessment of coursework and of honours project or dissertation.
This course requires previous attendance at Electrical and electronic engineering 2H(B) or 3F(B).

Electrical and Electronic Engineering 3H(C)

Third or 4th year: 8 hours a week, plus laboratory with associated lectures, and honours project or dissertation.
Mathematics 4EE(1); electromagnetism; applied physics; electronic circuits.
EXAMINATION: 6 papers on lecture and laboratory work, and assessment of coursework and of honours project or dissertation.
This course requires previous attendance at Electrical and electronic engineering 2H(C).

For the degree of Bachelor of Science with honours in metallurgy

Electrical Engineering 2MT

Third or fourth year: 1 lecture a week.
Electrical technology for students of metallurgy.
EXAMINATION: 1 paper.

For the degree of Bachelor of Science in physics-electronic engineering (combined)

Electronic Engineering 2C

Second year; 4½ hours a week plus 3 hours laboratory.
Electric circuit theory; electromagnetism; electronic circuits.
EXAMINATION: 2 papers.

Electronic Engineering 3C

Third year; 5½ hours a week plus 6 hours laboratory.
Electric circuit theory; electromagnetism; electronic circuits.
EXAMINATION: 3 or 4 papers.

Electronic Engineering 4C

Fourth year; 5 hours a week plus 3 hours laboratory and project.
Electromagnetism; applied physics.
EXAMINATION: 3 or 4 papers and assessment of project work.

Electronic Engineering (see Electrical and Electronic Engineering)

Engineering

Auxiliary Courses

Engineering 1T

First or 2nd year; 4 hours a week.
Theory and design of structures; strength of materials; thermodynamics; fluid mechanics; electrical and electronic engineering; engineering drawing.
EXAMINATION: 4 papers.

Engineering 1U

First, 2nd or 3rd year; 3 hours a week.
Theory and design of structures; strength of materials; thermodynamics; fluid mechanics; electrical engineering.
EXAMINATION: 3 papers.

For the degree of Bachelor of Science with honours in psychology

Engineering 1PS

First year; 3 hours a week.
Kinematics; electrical and electronic engineering; engineering drawing.
EXAMINATION: 3 papers.

For the degree of Bachelor of Science with honours in ceramics

Engineering 1CR

Third year; 1 lecture a week plus 15 hours engineering drawing. Selected aspects of mechanical and electrical engineering.
EXAMINATION: Assessment of course work.

For the ordinary degree of Bachelor of Science and the degree of Bachelor of Science with honours in chemical engineering

Engineering 1CE

First or 2nd year; 1 hour a week and 3 hours a week laboratory for 4 weeks.
Strength of materials.
EXAMINATION: 1 paper.

Engineering 2CE

Second or 3rd year; 1 hour a week and 3 hours a week laboratory for 4 weeks.
Electric power and electronic engineering.
EXAMINATION: 1 paper.

For the degree of Bachelor of Science with honours in textile engineering

Engineering 1TE

First year; 4 hours a week and 3 hours a week drawing office; 9 hours laboratory.
Theory and design of structures; strength of materials; thermodynamics; fluid mechanics; electrical and electronic engineering; kinematics; engineering drawing and design.
EXAMINATION: 5 papers.

Engineering 2TE (1)

Second year; 3 hours a week, 27 hours a week laboratory.
Strength of materials; engineering dynamics; production engineering.
EXAMINATION: 3 papers.

Engineering 2TE (2)

Second or third year; 2 hours a week, 3 hours a week drawing office and 24 hours laboratory.
Electric power engineering; electronic engineering; engineering drawing and design.
EXAMINATION: 2 papers.

Engineering 3TE

Third or 4th year; 2 hours a week and 6 hours a week drawing office for one term and 18 hours laboratory.
Engineering dynamics; control engineering; engineering drawing and design.
EXAMINATION: 2 papers.

For the degree of Bachelor of Science with honours in mining

Engineering 2MI

Third year; 5 hours a week and 3 hours a week laboratory for 16 weeks.
Theory and design of structures; strength of materials; thermodynamics; electric power engineering; electronic engineering.
EXAMINATION: 4 papers.

For the ordinary degree of Bachelor of Science in fuel and combustion science

Engineering 1FU

Second year; 4 hours a week.
Theory and design of structures; strength of materials; thermodynamics; fluid mechanics; electrical engineering; engineering drawing.
EXAMINATION: 4 papers.

For the degree of Bachelor of Science with honours in fuel and combustion engineering

Engineering 1FE

First or second year; 3 hours a week and 3 hours a week drawing office.
Theory and design of structures; strength of materials; thermodynamics; fluid mechanics; electrical and electronic engineering; engineering drawing and design.
EXAMINATION: 4 papers.

Engineering 2FE

Second or third year; 4 hours a week and 33 hours laboratory.
Strength of materials; thermodynamics; electric power engineering; electronic engineering.
EXAMINATION: 3 papers.

For the three-year scheme leading to the ordinary degree of Bachelor of Science in textile industries

Engineering 1TI

First year; 3 hours a week.
Theory and design of structures; strength of materials; thermodynamics; fluid mechanics; electrical and electronic engineering.
EXAMINATION: 3 papers.

Fibre Science (see Textile Industries)

Food and Leather Science

For the ordinary degree of Bachelor of Science, and for the degree of Bachelor of Science with honours in food science

Food Science 1F

First year; 3 lectures and 3 hours' laboratory work per week.
The nature of the world's food supplies, their classification, and their relationship to population.
The different branches of the food industry, their organisation and their principal processes.
EXAMINATION: 1 paper.

Food Science 2F

Second year; 2 lectures per week.
The development of food legislation, its enforcement, and the special problems of food additives. Statistical techniques in quality control.
EXAMINATION: 1 paper.

For the degree of Bachelor of Science with honours in food science

Food Science 3F

Third year; 8 lectures and 6 hours' laboratory per week with, for 2 terms only, 4 hours of examples classes.
Analytical chemistry and microscopy of natural products. Chemistry and the structure of natural products and synthetic polymers. Physics, chemistry and microbiology of food processing.
EXAMINATION: 3 papers and a practical examination.

Food Science 4F(A), 4F(B), 4F(C)

Fourth year; 6 lectures a week (some as seminars); 3 hours' laboratory work a week for 2 terms only; research project (6 hours a week in one term); together with additional lectures and laboratory work as specified below for the options.
Food processing and preservation. Chemistry and structure of foodstuffs.
Research project.

and either 4F(A)
Physical and psychological properties of foodstuffs. (2 lectures per week).
Additional laboratory work on the whole course. (3 hours per week for 2 terms).

or 4F(B)
Food microbiology (2 lectures and 4 hours' laboratory work per week).

or 4F(C)
Catering science (2 lectures and 3 hours' practical work a week for 1 term only).
Additional laboratory work on the whole course. (3 hours per week for 2 terms.)
EXAMINATIONS: 4 papers and an assessment of a report prepared from seminar contributions and the research project, which must be submitted in bound form.

For the ordinary degree of Bachelor of Science

Food Science 3P

Third year; 10 lectures (some as seminars) and 6 hours' laboratory work per week with, for half the session, 4 hours of examples classes.
Analytical chemistry and microscopy of natural products. Chemistry and structure of natural products and synthetic polymers. Physics, chemistry and microbiology of food processing. Food processing and preservation.
EXAMINATION: 4 papers and a practical examination together with an assessment of a report, prepared from the seminar contributions, which must be submitted in bound form.

For the degree of Bachelor of Science in two main subjects combined

Food Science 2A

Second year; 5 lectures and 3 hours' laboratory work per week.
The nature of the world's food supplies. The different branches of the food industry, their organisation and principal processes. The development of food legislation; its enforcement. Statistical techniques in quality control.
EXAMINATION: 2 papers.

Food Science 3A

Third year; 3 lectures and 6 hours' laboratory work per week.
Analytical chemistry and microscopy of natural products.
EXAMINATION: 1 paper and a practical examination.

Food Science 4A

Fourth year; 3 lectures a week (some as seminars) and, for two terms, 6 hours laboratory work per week.
Food processing and preservation. Research project.
EXAMINATION: 2 papers and an assessment of a report, prepared from seminar contributions and the research project, which must be submitted in bound form.

Food Science 2B

Second year; 3 lectures and 6 hours' laboratory work per week.
Analytical chemistry and microscopy of natural products.
EXAMINATION: 1 paper and a practical examination.

Food Science 3B

Third year; 4 lectures and 3 hours' laboratory work per week.
The different branches of the food industry, their organisation and principal processes. The development of food legislation, its enforcement. Statistical techniques in quality control. An introduction to microbiology.
EXAMINATION: 2 papers.

Fuel and Combustion Science, Fuel and Combustion Engineering

Fuel and Combustion Science 1T

First, 2nd or 3rd year; 1 hour a week, and for 1 term only, 3 hours a week laboratory work.
Primary and secondary fuels and their industrial and domestic use.
EXAMINATION: 1 paper.

For the degree of Bachelor of Science in mechanical engineering

Fuel and Combustion Science 1ME

Second year; each part 1 hour a week for 1 term.
Part I, Fuels; Part II, Non-metallic materials.
EXAMINATION: 1 paper.

For the degree of Bachelor of Science with honours in ceramics

Fuel and Combustion Science 1CR

Third year; 1 hour a week.
Fuels, heat transfer, design of kilns.
EXAMINATION: 1 paper.

For the degree of Bachelor of Science with honours in fuel and combustion science and in fuel and combustion engineering

Fuel and Combustion Science 1F

First year; 2 hours a week and 6 hours a week laboratory work.
Origin, occurrence, winning and processing of solid and liquid primary fuels, natural gas and nuclear fuels. Derivation, production and properties of secondary fuels. Elementary combustion chemistry and thermochemistry. Ignition, flame propagation, detonation, flame quenching. Fission and fusion processes. Direct energy conversion processes.
EXAMINATION: 1 paper.

Fuel and Combustion Science 1H

First year; 2 hours a week and 6 hours a week laboratory work.
Sources of energy; primary and secondary fuels. Principles of energy release from fuels. Nuclear fission and fusion processes for power production.
EXAMINATION: 1 paper.

Fuel and Combustion Science 2F

Second year; 2 hours a week and 6 hours a week laboratory work.
Energy sources, energy release. Nuclear power processes.
EXAMINATION: 1 paper.

For the degree of Bachelor of Science with honours in fuel and combustion science

Fuel and Combustion Science 2H

Second year; 5 hours a week and 9 hours a week laboratory work.
Energy transfer and fuel utilisation: steam raising and power production, furnace heating, combustion chamber design, industrial burners, space heating. Applied physical chemistry: applications of kinetics and thermodynamics. Scientific method and techniques. Instrumentation. Metallic and non-metallic materials of construction.
EXAMINATION: 4 papers.

Fuel and Combustion Science 3F

Third year; 5 hours a week and 9 hours a week laboratory work.
Fuel utilisation and the transfer of energy. Applied physical chemistry. Scientific method and techniques. Instrumentation. Metallic and non-metallic materials of construction.
EXAMINATION: 4 papers.

Fuel and Combustion Science 3H

Third year; an average of 8½ hours a week, 5 hours a week laboratory work and 10 hours a week on an experimental project.
Flame and combustion science: fundamentals of combustion processes, homogeneous combustion, heterogeneous combustion, aerodynamics of combustion, energy transfer from flames and gases.
Coal and carbon science; petroleum science, including combustion in engines, turbines and rockets; nuclear science, including fuel processing, reactor design and power reactors; applied rheology; organisation of the fuel and power industries. Applied physical chemistry: further applications of kinetics and thermodynamics.
EXAMINATION: 5 papers.

Fuel and Combustion Science 4F

Fourth year; an average of 8½ hours a week, 5 hours a week laboratory work and 10 hours a week on an experimental project.
Flame and combustion science; coal and carbon science; petroleum science; nuclear science; applied rheology; organisation of the fuel and power industries. Applied physical chemistry.
EXAMINATION: 5 papers.

For the degree of Bachelor of Science with honours in fuel and combustion engineering

Fuel and Combustion Engineering 2H

Second year; 5 hours a week and 9 hours a week laboratory work.
Energy transfer and fuel utilisation: combustion in engines, gas turbines and rockets, steam raising for process use and power production, water treatment, design of combustion chambers and furnace characteristics, industrial burners, space heating, nuclear power reactors. Analysis of fuel-producing and -using plant. Instrumentation. Metallic and non-metallic materials of construction.
EXAMINATION: 4 papers.

Fuel and Combustion Engineering 3F

Third year; 5 hours a week and 9 hours a week laboratory work.
Energy transfer and fuel utilisation. Analysis of fuel plant. Instrumentation. Metallic and non-metallic materials of construction.
EXAMINATION: 4 papers.

Fuel and Combustion Engineering 3H

Third year; an average of 8½ hours a week, 5 hours a week laboratory work and 10 hours a week on design project.
Energy conversion and release: applications of thermodynamics and kinetics to fuel plant; combustion processes, homogeneous combustion, heterogeneous combustion, combustion in engines; preparation of nuclear fuels, principles and theory of nuclear reactors, reactor components, reactor design. Design of fuel plant: specifications, heat and material balances, optimisation. Aerodynamics of combustion and energy transfer: flame transport processes and their application to flow patterns, modelling techniques; radiation from flames, view factors, convection in combustion systems, combined conduction and radiation and convection and radiation. Applied rheology. Organisation of the fuel and power industries.
EXAMINATION: 5 papers.

Fuel and Combustion Engineering 4F

Fourth year; an average of 8½ hours a week, 5 hours a week laboratory work and 10 hours a week on design project.
Energy conversion and energy release. Design of fuel plant. Aerodynamics of combustion and energy transfer. Applied rheology. Organisation of the fuel and power industries.
EXAMINATION: 5 papers.

For the ordinary degree of Bachelor of Science in fuel and combustion science

Fuel and Combustion Science 1P

First year: 3 hours a week and 6 hours a week laboratory work.
Origin, occurrence, winning and processing of solid and liquid primary fuels, natural gas and nuclear fuels. Derivation, production and properties of secondary fuels. Elementary combustion chemistry and thermochemistry. Ignition, flame propagation, detonation, flame quenching. Fission and fusion processes. Direct energy conversion processes. Metallic and non-metallic materials of construction.
EXAMINATION: 2 papers.

Fuel and Combustion Science 2P

Second year; 2 hours a week and 9 hours a week laboratory work.
Engines, gas turbines and rockets; combustion, knock, abnormalities, power production. Nuclear power reactors and auxiliaries. Instrumentation.
EXAMINATION: 2 papers.

Fuel and Combustion Science 3P

Third year; 8 hours a week and 12 hours a week laboratory work.
Principles of energy transfer from flames. Technology of energy transfer and fuel utilisation; steam raising for process use and power production, furnace heating and combustion chamber design, industrial burners, space heating. Economic aspects of fuel utilisation and fuel plant. Applied rheology of solids, fluids and pastes. Petrochemicals, coal chemicals, carbon, lubricants. Organisation of the fuel and power industries.
EXAMINATION: 4 papers.

For the degree of Bachelor of Science with honours in chemistry and fuel and combustion science (combined)

Fuel and Combustion Science 2A

Second year; 3 hours lectures and 5 hours laboratory work a week.
Sources of energy: origin, occurrence, winning and processing of solid and liquid primary fuels, natural gas and nuclear fuels. Derivation, production and properties of secondary fuels. Principles of energy release from fuels: elementary combustion chemistry and thermochemistry. Ignition, flame propagation, detonation, flame quenching. Nuclear fission and fusion processes for power production. Direct energy conversion processes. Fuel laboratory techniques: the physical and chemical techniques involved in the assessment of fuels and their products.
EXAMINATION: 1 paper.

Fuel and Combustion Science 3A

Third year; 4 hours lectures and 6 hours laboratory work a week.
Fuel utilisation: steam raising and power production, furnace heating, combustion chamber design, industrial burners, space heating. Heat transfer: principles of heat transfer by conduction, convection and radiation: principles of heat exchange design. Instrumentation, with particular reference to fuel plant.
EXAMINATION: 3 papers.

Fuel and Combustion Science 4A

Fourth year; 3 hours lectures and 6 hours laboratory work a week.
Energy transfer from flames; principles of energy transfer from flames, waste heat recovery. Flame and combustion science; fundamentals of combustion processes, homogeneous combustion, heterogeneous combustion, aerodynamics of combustion, engine combustion.
EXAMINATION: 2 papers.

Leather Science (see Food and Leather Science)

Mechanical Engineering

The Engineer in Society 1ME

First year: 1 hour a week.
Communication, industrial and social structure, the economy, markets, the business company, capital investment, labour.
EXAMINATION: 1 2-hour paper.

The Engineer in Society 2ME

Second year: 1 hour a week.
Management studies of the firm, input-conversion-output model and issues from model; law as applicable to the firm.
EXAMINATION: 1 2-hour paper.

For the ordinary degree of Bachelor of Science and for the degree of Bachelor of Science with honours in mechanical engineering

Mechanical Engineering 1F

First year; 4 hours a week plus 7 hours' drawing office and laboratory.
Strength of materials; engineering thermodynamics; kinematics; fluid mechanics; engineering measurements; engineering drawing and design; numerical and graphical analysis; civil engineering; electrical and electronic engineering.
EXAMINATION: 2 2-hour papers, 3 3-hour papers.

Mechanical Engineering 2F

Second year; 6 hours a week plus 5 hours' drawing office and laboratory.
Strength of materials; engineering thermodynamics; engineering dynamics; fluid mechanics; production engineering; engineering drawing and design; nuclear engineering; control engineering; electric power engineering.
EXAMINATION: 4 2-hour papers, 2 3-hour papers.

Mechanical Engineering 3F

Third year; 10 hours a week plus 4 hours a week laboratory and 80 hours (total) on design project.
Strength of materials; engineering thermodynamics; engineering dynamics; fluid mechanics; industrial administration; engineering drawing and design; electronic engineering; nuclear engineering; control engineering.
EXAMINATION: 1 1½-hour paper, 2 2-hour papers, 5 3-hour papers.

For the degree of Bachelor of Science with honours in mechanical engineering

Mechanical Engineering 1H

First year: 5½ hours a week plus 8½ hours' drawing office and laboratory.
Strength of materials; engineering thermodynamics; kinematics; fluid mechanics; engineering measurements, engineering drawing and design; numerical and graphical analysis; civil engineering; electrical and electronic engineering.
EXAMINATION: 5 2-hour papers, 2 3-hour papers.

Mechanical Engineering 2H

Second year; 9 hours a week plus 7½ hours' drawing office and laboratory.
Strength of materials; engineering thermodynamics; engineering dynamics; fluid mechanics; production engineering; engineering drawing and design; nuclear engineering; control engineering; electric power engineering; electronic engineering.
EXAMINATION: 7 2-hour papers, 1 3-hour paper.

Mechanical Engineering 3H

Third or 4th year; 10 hours a week together with 80 hours (total) on experimental project, 80 hours (total) on design project and 40 hours (total) on project in numerical and graphical analysis.
Strength of materials; engineering thermodynamics; engineering dynamics; fluid mechanics; engineering production and administration; engineering drawing and design; numerical and graphical analysis; control engineering; tribology. *Three* chosen from courses in: stress analysis; applied plasticity; advanced thermodynamics and direct generation of electricity; combustion, explosion and energy transfer; analogue computing; advanced dynamics; gas dynamics; rheology and viscous flow; engineering plasticity; production processes and techniques; social and industrial psychology.
EXAMINATION: 10 2-hour papers.

Metallurgy

Metallurgy 1S

First year; 3 lectures a week and 3 hours a week laboratory work for 2 terms.
Materials; mechanical properties; phase transformations; production metallurgy.
EXAMINATION: 1 paper.

For the ordinary degree of Bachelor of Science and the degree of Bachelor of Science with honours in applied mineral sciences

Metallurgy 1AM

Second or 3rd year; 1 lecture a week.
Extraction metallurgy 1.
EXAMINATION: 1 paper.

For the degree of Bachelor of Science with honours in applied mineral sciences

Metallurgy 2AM

Fourth year; 1 lecture a week.
Metallurgical thermochemistry.
EXAMINATION: 1 paper.

For the degree of Bachelor of Science with honours in ceramics

Metallurgy 1CR

Third year; 1 lecture a week.
Physical and process metallurgy; oxidation of metals; high temperature materials; composite materials.
EXAMINATION: 1 paper.

For the ordinary degree of Bachelor of Science and the degree of Bachelor of Science with honours in chemical engineering

Metallurgy 2CE

Third or 4th year; 2 lectures a week.
The structure and mechanical properties of metals as influenced by temperature; metal fabrication processes; corrosion.
EXAMINATION: 1 paper.

For the ordinary degree of Bachelor of Science and the degree of Bachelor of Science with honours in civil engineering

Metallurgy 1CV

First year; 1 lecture a week.
A general review of the structure and properties of materials principally from the viewpoint of civil engineering applications.
EXAMINATION: 1 paper.

For the degree of Bachelor of Science with honours in civil engineering

Metallurgy 2CV

Second or 3rd year; 3 lectures a week and 3 hours laboratory work a week for 2 terms.
Non-metallic engineering materials; physical metallurgy; metals in civil engineering.
EXAMINATION: 1 paper.

For the degree of Bachelor of Science with honours in mechanical engineering

Metallurgy 1ME

First year; 1 lecture a week and 3 hours a week laboratory work for 4 weeks.
A general review of physical metallurgy principally from the viewpoint of mechanical engineering applications.
EXAMINATION: 1 paper.

For the degree of Bachelor of Science and the degree of Bachelor of Science with honours in mining

Metallurgy 1MI

First year; 1 lecture a week.
Principles of extractive metallurgy and description of processes; elementary physical metallurgy.
EXAMINATION: 1 paper.

For the ordinary degree of Bachelor of Science and the degree of Bachelor of Science with honours in metallurgy

Metallurgy 1H(1)

First year; 3 lectures a week and 3 hours laboratory work a week.
Analysis; crystals and molecules; electrochemistry, mechanical properties; phase transformations.
EXAMINATION: 1 paper.

Metallurgy 1H(2) and Metallurgy 2P

Second year; 3 lectures a week and 3 hours laboratory work.
Extraction metallurgy 1; production metallurgy; thermometallurgy.
EXAMINATION: 1 paper.

For the degree of Bachelor of Science with honours in metallurgy

Metallurgy 1H

First year; 6 lectures a week and 6 hours a week laboratory work.
A combination of Metallurgy 1H(1) and 1H(2).
EXAMINATION: 2 papers.

Metallurgy 2H

Second or 3rd year; 7 lectures a week and 6 hours a week laboratory work.
Corrosion; crystallography; extraction metallurgy 2; metallic elements; metallurgical thermochemistry H; nuclear properties; quantum theory; structure and properties 1.
EXAMINATION: 3 papers.

Metallurgy 3H

Third or 4th year; 10 lectures a week and 9 hours a week laboratory work.

Alloy thermodynamics; continuum mechanics; electrons in solids; founding; industrial practice; joining; metallographic techniques; polymers; reactions in solids; steelmaking; structure and properties 2.
EXAMINATION: 6 papers and a metallography examination.

For the ordinary degree of Bachelor of Science in metallurgy

Metallurgy 3P

Third year; 9 lectures a week for the first half of the year, 8 lectures a week for the second half of the year and 9 hours a week laboratory work.
Corrosion; extraction metallurgy 2; founding; industrial practice; joining; metallic elements; metallurgical thermochemistry P; metallographic techniques; steelmaking; structure and properties 1 and 2.
EXAMINATION: 5 papers and a metallography examination.

Mining and Mineral Sciences

For the degree of Bachelor of Science with honours and ordinary degree of Bachelor of Science in mining

Mining 1H

First year; 1 hour a week, plus practical.
Surveying instruments, topographical surveys, computation, maps and plans.
EXAMINATION: 1 paper, plus assessment of course work.

Mining 2H

Second year; 4 hours a week, plus practical.
Development of mineral deposits; shaft sinking and tunnelling; the design of machinery for the exploitation of minerals; power in mines; methods and standards of accuracy for underground surveying; orientation of surface and underground surveys, computation and plotting.
EXAMINATION: 2 papers, plus assessment of course work.

For the degree of Bachelor of Science with honours in mining

Mining 2F

Second year; 2 hours a week, plus practical.
Methods and standards of accuracy for underground surveying, orientation of surface and underground surveys, computation and plotting.
EXAMINATION: 1 paper, plus assessment of course work.

Mining 3F

Third year; 4 hours a week, plus practical.
Development of mineral deposits; shaft sinking and tunnelling; the design of machinery for the exploitation of minerals; power in mines; elements of mineral processing; geophysical and geochemical prospecting.
EXAMINATION: 2 papers, plus assessment of course work.

Mining 4F
Fourth year; 10 hours a week, plus practical.
Methods of working stratified and unstratified mineral deposits; mine ventilation, safety and rescue, environmental conditions in mines; transportation in mines; mineral reserves, sampling, mine examination, markets, valuation, capital requirements, economic factors influencing the cost of metals and metallurgical operations; organisation and management; development of oilfields including primary and secondary recovery, estimation of reserves; mechanical properties of rocks, theories of rock failure, stresses around openings and in linings.
EXAMINATION: 5 papers, plus assessment of course work.

Mining 3H
Third year; 12 hours a week, plus practical.
Geophysical and geochemical prospecting; elements of mineral processing; methods of working stratified and unstratified mineral deposits; mine ventilation, safety and rescue, environmental conditions in mines; transportation in mines; mineral reserves, sampling, mine examination, markets, valuation, capital requirements, economic factors influencing the cost of metals and metallurgical operations; organisation and management; development of oilfields including primary and secondary recovery, estimation of reserves; mechanical properties of rocks, theories of rock failure, stresses around openings and in linings.
EXAMINATION: 6 papers, plus assessment of course work.

For the ordinary degree of Bachelor of Science in mining
Mining 3P
Third year; 10 hours a week, plus practical.
Geophysical and geochemical prospecting; elements of mineral processing; methods of working stratified and unstratified mineral deposits; mine ventilation, safety and rescue, environmental conditions in mines; transportation in mines; mineral reserves, sampling, mine examination, markets, valuation, capital requirements, economic factors influencing the cost of metals and metallurgical operations; organisation and management.
EXAMINATION: 5 papers, plus assessment of course work.

For the ordinary degrees of Bachelor of Science, the degrees of Bachelor of Science with honours both in mining and in applied mineral sciences, and the degree of Bachelor of Science in two main subjects combined
Applied Mineral Sciences 1F
First year; 1 hour a week.
An introduction to the occurrence, exploration, exploitation, treatment and utilization of minerals.
EXAMINATION: 1 paper.

For the degree of Bachelor of Science with honours in applied mineral sciences
Applied Mineral Sciences 1H
First year; 4 lectures a week, plus practical.
An introduction to the occurrence, exploration, exploitation, treatment and utilisation of minerals; an introduction to mineral processing; minerals in industrial practice.
EXAMINATION: 3 papers.

Applied Mineral Sciences 2F
Second year; 3 hours a week, plus practical.
An introduction to mineral processing. Minerals in industrial practice.
EXAMINATION: 2 papers.

Applied Mineral Sciences 2H
Second year; 9 lectures a week, plus practical.
Surface chemistry of solids; mineral chemistry; rock and mineral physics; micromeritics; particle-fluid mechanics; mineral economics; an introduction to mining; an introduction to oilfield development; plant performance.
EXAMINATION: 4 papers.

Applied Mineral Sciences 3F

Third year; 9 hours a week, plus practical.
Surface chemistry of solids; mineral chemistry; an introduction to mining; an introduction to oilfield development; plant performance; rock and mineral physics; micromeritics; particle-fluid mechanics; mineral economics.
EXAMINATION: 4 papers.

Applied Mineral Sciences 3H

Third or fourth year; 9 hours a week, plus practical, plus tutorials.
Physical processing of minerals: comminution, classification, concentration, flotation, liquid-solid separations, aggregation, flowsheets. Chemical processing of minerals: unit operations, hydro-metallurgical processes, chemical oceanography, halogen processes, high temperature processes.
Materials handling and control; design of industrial plants.
EXAMINATION: 4 papers and plant design report.

For the ordinary degree of Bachelor of Science in applied mineral sciences

Applied Mineral Sciences 2P

Second year; 5 hours a week, plus practical.
An introduction to mineral processing. Rock and mineral physics; micromeritics; particle-fluid mechanics. Minerals in industrial practice.
EXAMINATION: 3 papers.

Applied Mineral Sciences 3P

Third year; 9 hours a week, plus practical.
An introduction to mining; an introduction to oilfield development; mineral economics; plant performance; materials handling and control.
Physical processing of minerals: comminution, classification, concentration, flotation, liquid-solid separations, aggregation, flowsheets.
EXAMINATION: 4 papers.

For the degree of Bachelor of Science in mining geology

Mining 2A

Second year: 7 hours per week including practical work.
Surveying instruments, topographic surveys, computation, maps and plans: development of mineral deposits, shaft sinking and tunnelling.
Minerals in industrial practice; the occurrence, methods of extraction and purification; the main commercial applications from the scientific, technological and economic viewpoints.
EXAMINATION: 2 papers plus assessment of course work.

Mining 3A

Third year: 7 hours per week including practical work.
Methods and standard of accuracy for underground surveying, orientation and correlation of surface and underground surveys, computation and plotting. Theory of errors in surveying; geophysical and geochemical prospecting; elements of mineral processing.
EXAMINATION: 2 papers plus assessment of course work.

Mining 4A

Fourth year: 9 hours per week including practical work.
Methods of working stratified and non-stratified mineral deposits; mine management and mineral economics; rock mechanics; development of oilfields.
EXAMINATION: 3 papers and assessment of course work.

For the degree of Bachelor of Science in two main subjects combined

Mineral Sciences 2A

Second year; 3 hours lectures and 6 hours' laboratory work a week at times to be arranged.
Introduction to mineral processing: comminution, sizing, concentration, solid-liquid separations; physical reforming; chemical processing.
Mineral uses; the occurrences and important world sources of economic minerals; methods of extraction and purification; the main commercial applications from the scientific, technological and economic viewpoints.
EXAMINATION: 2 papers.

Mineral Sciences 3A

Third year; 4 hours lectures and 6 hours' laboratory work a week at times to be arranged.
Mineral physics: mechanical properties of rocks and minerals and their application in exploitation and mineral processing; properties of particulate systems; properties of particle-fluid systems.
Mineral chemistry: influence of chemical constitution and crystal structure on chemical and physical properties of minerals; surface energy and inter-facial energy; applications in mineral processing.
EXAMINATION: 2 papers.

Mineral Sciences 4A

Fourth year; 5 hours lectures and 6 hours' laboratory work at times to be arranged.
Physical processing of minerals: comminution, classification, concentration, liquid-solid separations, aggregation.
Chemical processing of minerals: unit operations, hydro-metallurgical processes, chemical oceanography, halogen processes, high temperature processes.
EXAMINATION: 2 papers.

Statistics and Textile Testing (see Textile Industries)

Textile Industries

Textiles 1T

First year; 4 lectures a week and laboratory work.
An introductory course covering textile raw materials; textile chemistry and its application to processing; elementary textile physics; principles of yarn and fabric manufacture.
EXAMINATION: 2 papers.

Textile Technology 1T

First or 2nd year; 1 lecture a week.
A general survey of textile fibres and their manipulation in yarn and fabric manufacture; cloth finishing; textile testing; modern developments in the textile industry.
EXAMINATION: 1 paper.

For the ordinary degree of Bachelor of Science in textile industries

Fibre Science 2TI

Second year; 4 lectures a week and laboratory work.
Fundamental chemistry and its application to the constitution, structure and properties of textile fibres.
Fundamental physics and its application to textile processing in terms of moisture relations, static electricity, friction and microscopy.
EXAMINATION: 2 papers.

Fibre Science 3TI

Third year; 3 lectures a week and laboratory work.
Polymerisation and the physical and chemical properties of fibrous polymers; chemistry and physics of man-made fibre production; chemistry of finishing processes.
Structure and physical properties of textile fibres.

Statistics and Textile Testing 2TI

Second year; 2 lectures a week in the School of Mathematics and 2 lectures a week and laboratory work in the Department of Textile Industries.
The lectures in the Department of Textile Industries cover the physical testing of textile materials and the application of statistical methods to testing problems.
EXAMINATION: 2 papers.

Textiles 2P(A)

Second year; 8 lectures a week and laboratory work.
Fundamentals of textile engineering; yarn manufacture; tow conversion; bulked and textured yarns; preparatory weaving processes; weaving and knitting mechanisms; fabric structure and analysis; colour and woven design.

Textiles 2P(B)

Second year; 8 or 10 hours a week and laboratory work.
Syllabus as for Textiles 2P(A) with the addition of statistics, textile testing and quality control for those students who have not passed, or are not taking, Statistics and textile testing **2TI.**

Textiles 3P(A)

Third year; 9 lectures a week and laboratory work.
Automatic control and its application to textile machinery; mill management; chemistry and practice of cloth finishing and dyeing; and either (i) yarn manufacture *or* (ii) fabric manufacture *or* (iii) fabric design *or* (iv) quality control.

Textiles 3P(B)

Third year; 9 lectures a week and laboratory work.
Syllabus as for Textiles 3P(A)

For the degree of Bachelor of Science with honours in textile physics

Textile Physics 2F

First or 2nd year; 2 lectures a week and laboratory work.
Fundamental physics and its application to textile materials and processing, for example, moisture relations, static electricity, friction and microscopy.

Textile Physics 3F

Second or 3rd year; 2 lectures a week and laboratory work.
Modern physical methods of investigating fibre structure. The structure of natural and man-made fibres as revealed by these techniques.

Textile Physics 4F

Third or 4th year; 5 lectures a week, laboratory work and tutorials.
Physical properties of fibres: spectroscopy; microscopy; x-ray and electron diffraction; physics of wet, dry and melt spinning.

Textiles 2TP

First or 2nd year; 2 lectures a week and laboratory work.
Atomic and molecular structure; chemical kinetics and equilibria; surface chemistry; construction, structure and properties of proteins, polysaccharides and synthetic polymers; synthesis of fibrous polymers.

Textiles 3TP

Second or 3rd year; 12 lectures a week, laboratory work and tutorials.
Structure and properties of textile fibres as revealed by modern chemical techniques; polymer chemistry; yarn manufacture; tow conversion; bulked and textured yarns; preparatory weaving processes; weaving and knitting mechanisms; fabric structure and analysis; textile testing and statistics.

Textiles 4TP

Third or 4th year; 6 lectures a week, laboratory work and tutorials.
Cloth finishing; automatic control and its application to textile machinery; and courses in (a) textile engineering (yarn and fabric manufacture) *or* (b) quality control.

For the degree of Bachelor of Science with honours in textile chemistry

Textile Chemistry 2F

First or 2nd year; 1 lecture a week.
Fundamentals of textile chemistry.

Textile Chemistry 3F

Second or 3rd year; 1 lecture a week and laboratory work.
Chemical constitution, structure and properties of proteins, polysaccharides and synthetic polymers.

Textile Chemistry 4F(1)

Third or 4th year; 2 lectures a week and laboratory work.
Polymerisation and the physical and chemical properties of fibrous polymers; chemistry and physics of man-made fibre production; chemistry of finishing processes.

Textile Chemistry 4F(2)

Third or 4th year; 4 lectures a week and laboratory work.
Modern techniques in fibre science. Protein and cellulose chemistry. Chemical quality control.

Textile Chemistry 4F(3)

Third or 4th year; 3 lectures a week and laboratory work.
Chemistry and practice of cloth finishing and dyeing.

Textiles 2TC

First or 2nd year; 2 lectures a week.
Fundamentals of textile physics and textile engineering.

Textiles 3TC

Second or 3rd year; 11 lectures a week and laboratory work.
Hygrometry and moisture relations of fibres; photometry and light microscopy; yarn manufacture; tow conversion; bulked and textured yarns; preparatory weaving processes; weaving and knitting mechanisms; fabric structure and analysis; statistics; textile testing and quality control.

Textiles 4TC

Third or 4th year; 2 lectures a week and laboratory work.
Structure and properties of textile fibres as revealed by modern physical techniques.

For the degree of Bachelor of Science with honours in textile engineering

Textile Engineering 2F

Second year; 1 lecture a week.
Fundamentals of textile engineering.

Textile Engineering 3F

Second or 3rd year; 1 lecture a week.
Automatic control and its application to textile machinery and equipment.

Textile Engineering 4F

Third or 4th year; 3 lectures a week.
Mechanics of yarn and fabric manufacture; geometrical and mechanical properties of yarns and fabrics.

Textiles 2TE(F)

Second year; 5 lectures a week and laboratory work.
Yarn manufacture; tow conversion; bulked and textured yarns; textile testing and quality control; preparatory weaving processes.

Textiles 3TE(F)

Third year; 7 lectures a week and laboratory work.
Textile chemistry; textile physics; weaving and knitting mechanisms; fabric structure and analysis; cloth finishing; elementary statistics.

Textiles 4TE(F)

Fourth year; 6 lectures a week and laboratory work.
Mill management including cost accounting applied to the textile industry; and selected courses in yarn manufacture *and/or* fabric manufacture.

Textiles 2TE(H)

First year; 4 lectures a week and laboratory work.
Yarn manufacture on the woollen, worsted and cotton systems; tow conversion; bulked and textured yarns; textile testing and quality control.

Textiles 3TE(H)

Second year; 8 lectures a week and laboratory work.
Textile chemistry; textile physics; preparatory weaving processes; weaving and knitting mechanisms; fabric structure and analysis; cloth finishing; elementary statistics.

Textiles 4TE(H)

Third year; 6 lectures a week and laboratory work.
Syllabus as for Textiles 4TE (F).

For the degree of Bachelor of Arts in textile design, in textile management, and in economics and textile industries

Textiles 1A

First year; 5 lectures a week and laboratory work.
An introductory course covering textile raw materials; elementary textile chemistry; principles of yarn and fabric manufacture.
EXAMINATION: 2 papers.

For the degree of Bachelor of Arts in textile design

Textiles 2A(D)

Second year; 7 lectures a week and laboratory work.
Yarn manufacture; tow conversion; bulked and textured yarns; weaving and knitting mechanisms; fabric structure and analysis; textile testing and textile calculations.

Textiles 3A(D)

Third year; 8 lectures a week and laboratory work.
Advanced weaving and knitting mechanisms, advanced fabric structure and analysis, colour and weave effects, printed textiles. Textile chemistry, cloth finishing and dyeing.

Textile Design 1, 2 and 3

First, 2nd and 3rd years.
Design and colour for woven and printed fabrics; studio work; weaving, knitting and screen printing.

For the degree of Bachelor of Arts in textile management

Textiles 1A(M)

First year; 3 lectures a week.
Elementary textile calculations and textile mathematics. Introduction to colour in woven design.

Textiles 2A(M)

Second year; 8 lectures a week and laboratory work.
Syllabus as for Textiles 2A(D).

Textiles 3A(M)

Third year; 8 lectures a week and laboratory work.
Quality control, advanced weaving and knitting mechanisms, advanced fabric structure and analysis. Textile chemistry, cloth finishing and dyeing, mill management including cost accounting applied to the textile industry.

For the degree of Bachelor of Arts in economics and textile industries

Textiles 2E

Second year; 9 lectures a week and laboratory work.
Yarn manufacture; tow conversion; bulked and textured yarns; weaving and knitting mechanisms; fabric structure and analysis; elementary statistics and textile testing.

Textiles 3E

Third year; 8 lectures a week and laboratory work.
Chemical properties of textile fibres; fibre production and fibre structure; quality control, advanced weaving and knitting; unconventional methods of fabric production; advanced fabric structure and analysis; chemistry and practice of cloth finishing; mill management including cost accounting applied to the textile industry.

For the degree of Bachelor of Science with honours in colour chemistry and for the ordinary degree of Bachelor of Science in dyeing

Textile Technology 2CC

Third year; 1 lecture a week.
Chemistry and practice of textile bleaching and finishing.
EXAMINATION: 1 paper.

Courses given by other Faculties

Details are given below of courses given by departments in the Faculties of Arts, and Economic and Social Studies which are intended for inclusion in schemes of study for the degree of B.Sc. It should be noted also that in a number of instances schemes of study for the degree of B.Sc. permit the inclusion, subject to proper approval, of courses in the Faculties of Arts and Economic and Social Studies other than those listed here. Full details of courses in those Faculties may be obtained from the Prospectuses for the Faculties.

FACULTY OF ARTS

German

German for Science Students 1Z

Any year; Monday and Friday 2 to 3.
Outline of German grammar, prescribed texts. The course is intended for beginners. Special attention will be given to the needs of students of science and technology.
Books recommended: Eaton, Jackson and Buxton, *German for the Scientist* (E.U.P.) and Wells and Rowley, *The Fundamentals of German Grammar* (Arnold's Card Guides: Modern Language Series, No. 2).

History and Philosophy of Science/Philosophy

Philosophy 1D

First year; Monday and Tuesday 4 to 5, Thursday 9 to 10; and regular tutorials.

1. Introduction to philosophy
2. Reason and argument

EXAMINATION: 2 papers.

History and Philosophy of Science 1E

First year; Monday 3 to 4 and 4 to 5, Friday 4 to 5; and a fortnightly tutorial.
The development of European science and the philosophy of science.
EXAMINATION: 2 papers.

History of Science 2E

Second year; Monday and Tuesday 5 to 6.30 and one further hour at a time to be arranged.
Topics in the history of scientific thought, and set book.
EXAMINATION: 2 papers.

History of Science 3E

Third year; Monday and Tuesday 5 to 6.30 and one further hour at a time to be arranged.
Further topics in the history of scientific thought and philosophy of science.
EXAMINATION: 2 papers.

For the degree of Bachelor of Science in two main subjects combined (history of science, and/or philosophy, with another subject)

History of Science and Philosophy 2A

Second year; Monday 3 to 4 and 4 to 5, Tuesday 4 to 5, Thursday 9 to 10, Friday 4 to 5 and tutorials at times to be arranged.
Introduction to philosophy; development of European science; reason and argument.
This course does *not* require previous attendance at a first-year course in history of science, and/or philosophy.
EXAMINATION: 3 papers.

Philosophy 3A

Third year; Thursday 11 to 12.30 and five other hours a week at times to be arranged.
History of philosophy (ancient *or* modern), philosophy of science, logic and contemporary philosophy seminar.
The course requires previous attendance at History of science and philosophy 2A.
EXAMINATION: 1 paper—philosophy of science; 3 essays—history of philosophy; and 1 departmental examination* —philosophical problems. On successful completion of this course, candidates may proceed to Philosophy 4A.

History of Science 3B

Third year; Monday and Tuesday 5 to 6.30 and 3½ further hours at times to be arranged.
History of philosophy (ancient *or* modern), philosophy of science, topics in the history of scientific thought and a set book in the history of science.
The course requires previous attendance at History of science and philosophy 2A.
EXAMINATION: 2 papers—philosophy of science and set book, topics in the history of scientific thought, and 1 departmental examination*—history of philosophy. On successful completion of this course, candidates may proceed to History of science 4B.

History of Science and Philosophy 3C

Third year; Monday and Tuesday 5 to 6.30, Thursday 11 to 12.30 and six other hours a week at times to be arranged.
History of philosophy (ancient *or* modern), philosophy of science, logic, contemporary philosophy seminar, topics in the history of scientific thought, and a set book in the history of science.
The course requires previous attendance at History of science and philosophy 2A.
EXAMINATION: 2 papers—philosophy of science and set book, topics in the history of scientific thought; 3 essays—history of philosophy; and one departmental examination*—philosophical problems. On successful completion of this course, candidates may proceed to *either* Philosophy 4A *or* History of science 4B.

Philosophy 4A

Fourth year; Friday 10 to 11.30 and five and a half other hours a week at times to be arranged.
Seminar in philosophy of science, ethics or politics, special subject in philosophy, contemporary philosophy seminar, set book in the history of science† *or* special subject in the history of science.‡
The course requires previous attendance at either Philosophy 3A or History of science and philosophy 3C.
EXAMINATION: 4 papers—philosophical problems, ethics, *or* politics, special subject in philosophy, philosophy of science and set book† *or* philosophy of science and special subject in the history of science; 3 essays—history of philosophy.

*Candidates have to pass in order to advance to fourth year.
†To be taken by candidates who have previously passed Philosophy 3A.
‡To be taken by candidates who have previously passed History of science and philosophy 3C.

History of Science 4B

Fourth year; Monday and Tuesday 5 to 6.30 and 3½ hours a week at times to be arranged.
Seminar in philosophy of science, topics in the history of scientific thought, special subject in the history of science, history of science seminar.
The course requires previous attendance at either History of science 3B *or* History of science and philosophy 3C.
EXAMINATION: 5 papers—general paper, topics in the history of scientific thought (2 papers), special subject in the history of science, philosophy of science and set book.

For the degree of Bachelor of Science in chemistry

History of Science 2CH

First or second year; Monday 3 to 4 and 4 to 5, and Friday 12 to 1 and 4 to 5; and tutorial at times to be arranged.
The course includes: the development of European science, the philosophy of science, and the history of chemistry.
EXAMINATION: 3 papers.

Italian

For the degree of Bachelor of Science

Italian 1A

First year: 3 hours a week and one practical period.
The study of grammar, translation and composition, essay in Italian, and prescribed texts. The texts prescribed are the same as those for the one-year course in Italian as a subsidiary subject for the degree of Bachelor of Arts. The course is available either as a one-year course, or as the first year of a two-year course, in Italian as a subsidiary subject for the degree of Bachelor of Science in either one- or two-main subject schemes. No previous knowledge of Italian is required.
EXAMINATION: 2 papers and an oral examination.

Italian 2A

Second year; 3 hours a week and one practical period.
The content of this course and the books prescribed will be the same as for one of the years of the two-year course in Italian as a subsidiary subject for the degree of Bachelor of Arts.
The course normally requires previous attendance at Italian 1A.
EXAMINATION: 2 papers and an oral examination.

Russian

For the degree of Bachelor of Science

Russian for Science Students 1A

First year; Monday 10 to 11, and Thursday 4 to 5.
Outline of Russian grammar, syntax and word-building, transliteration of foreign scientific terms; oral and written translation from Russian of prepared and unprepared texts. Students are expected, at the end of the course, to know sufficient grammar and vocabulary to translate from Russian without a dictionary passages studied during the course, and more difficult passages with the aid of a dictionary.
EXAMINATION: 1. Translation from Russian of texts, without dictionary (2 hours); 2. Translation from Russian, use of dictionary permitted (2 hours).

Russian for Science Students 2A

Second year; up to 4 hours a week at times to be arranged, depending on the number of students presenting themselves.
EXAMINATION: 2 papers: Translation from Russian, prescribed texts.

FACULTY OF ECONOMIC AND SOCIAL STUDIES

Economics

For the degree of Bachelor of Science

Economics 2C

General Economics

Tuesday and Thursday, 10 to 11 and tutorial classes at time to be arranged.
A general course including elements of social accounting; monetary systems, theory of production, demand, supply, price formation, distribution, industrial organisation, the level of activity and public policy.

English Economic History, 1750 to 1914

Friday 11 to 12.
The process of industrialisation and the parts played by technology, transport, capital, labour and foreign trade. The subsequent development of modern industrial capitalism and the problems it began to encounter in the decades before the first World War.
EXAMINATION: 3 papers.

For the degree of Bachelor of Science in two main subjects combined

Economics 2A
Second year

Economics for Scientists

Monday and Thursday 11 to 12.
An introductory course in economic theory covering elementary theories of unemployment, the trade cycle, inflation, price and output determination under different market structures and international trade and the balance of payments.

English Economic History, 1750 to 1914

Friday 11 to 12.

The process of industrialization and the parts played by technology, transport, capital, labour and foreign trade. The subsequent development of modern industrial capitalism and the problems it began to encounter in the decades before the first World War.

Elements of Accounting

Monday 4 to 5.

Accounting statements, their derivation and underlying conventions; the influence of types of organisation and types of activity; compounding and discounting; valuation of individual assets; valuation of businesses; some aspects of short- and long-run decision making.
Tutorials and seminars at times to be arranged.
EXAMINATION: 2 papers.

Economics 3A
Third year

A Mathematical Approach to Economics
Monday 11 to 12 and Tuesday 2 to 3.

(i) Micro-economic theory: a mathematical treatment of the basic theories of consumer demand, production, market structures and distribution.

(ii) Macro-economic theory: theory of income determination, simple trade cycle and growth models.

(iii) Methods of input-output and linear programming and their application to economic theory.

Applied Economics

Monday 4 to 5 and Friday 3 to 4.

1. Industrial Economics:
Basic characteristics of the British industrial structure. Factors affecting the size and growth of plants and firms: pricing policies, investment criteria and the finance of industry: the organisation and working of labour markets.

2. Public Economics:
Applications of the principles of public finance and control to current economic problems: budget determination: fiscal and monetary policy: public control of the industrial sector.

A tutorial and a seminar.
The course requires previous attendance at Economics 2A.
EXAMINATION: 2 papers.

Economics 4A

Fourth year; Eight hours lectures, tutorials and seminars at times to be arranged.

1. Econometrics:
Wednesday, 11 to 1.
Linear regression and its limitations; treatment of heteroscedasticity, errors in variables, and auto-correlation of errors. Multicollinearity; use of dummy variables and lagged variables. Simultaneous equation systems; identification and estimation problems. Problems of applied econometrics: consumption function, demand analysis, production and cost functions, macroeconomic models and forecasting.

2. Sample Survey Techniques:
Monday, 11 to 12.
The principles of sample survey techniques with special reference to their application within the field of social science, particularly economics. Discussions of complex sample designs and their applications are developed from the theory of simple random sampling. Special attention is given to the control of errors on the basis of models embracing sampling and non-sampling errors.

3. Operational Research:
Monday, 10 to 11.
An introduction to the applications of certain mathematical techniques to problems in management science and economics including inventory policy, choice of production techniques, investment criteria and games and decisions.

4. *One other non-quantitative special subject in economics.*

The course requires previous attendance at Economics 3A.
EXAMINATION: 3 papers.

Applied Economics for Applied Scientists

For first-year students reading for the degree of Bachelor of Science in civil engineering, colour chemistry or dyeing.

Trade Unionism and Collective Bargaining

For third-year students reading industrial relations as an additional subject for the degree of Bachelor of Science in the Faculty of Applied Science.
An examination of the organisation of trade unions, the Trade Union Congress and workshop bodies. The functions of trade unionism and the methods employed. Strikes, collective bargaining, joint consultation and political action.

Geography

For the degree of Bachelor of Science in geography

Geography 2GG

Second year; 3 lecture hours and 5 hours' laboratory work a week; tutorials at times to be arranged.
Environmental physiography; evolution of settlement and land use; geographical problems, approaches and concepts; cartography and quantitative methods.
EXAMINATION: 4 3-hour papers.

Geography 3GG

Third year; 6 lecture hours, 6 hours' laboratory work and tutorials at times to be arranged. Systems of spatial organisation, natural resource systems, geomorphology I, climatology, pedology I, laboratory and field work, research methods. In conjunction with the latter course, candidates must prepare a research project of suitable scope; this to be undertaken in the long vacation at the end of the third year.
EXAMINATION: 3 3-hour papers.

Geography 4GG

Fourth year; 4 lecture hours, 2 hours' seminar and 8 hours' laboratory or field work a week. Geomorphology II, hydrometeorology, pedology II, vegetation and conservation (an approved course from those offered for the Bachelor of Arts scheme of study can be substituted for *one* of these courses with the approval of the head of the Department); geography seminar.
EXAMINATION: 5 3-hour papers; in addition, all candidates must submit a report on the research project (equivalent of 1 paper).

Field work during terms and vacation is an integral part of these courses and will be tested in the examinations.

For the degree of Bachelor of Science in two main subjects combined

Geography 2A

Second year; 2 lecture hours and 5 hours' practical work a week, and tutorials at times to be arranged.
Environmental physiography 1, evolution of settlement and land use, cartography and quantitative methods.
EXAMINATION: 3 3-hour papers.

Geography 3A

Third year; 4 lecture hours and 3 hours' practical work a week: and tutorials at times to be arranged.
Geomorphology 1, climatology, pedology 1, natural resource systems. (A research project of suitable scope will be initiated in conjunction with one of these courses: it will be carried out in the ensuing long vacation and submitted as part of the final degree examination.)
EXAMINATION: 2 papers and 1 practical examination.

Geography 4A

Fourth year; 3 lecture hours and four hours' laboratory or field work a week at times to be arranged.
Two from: geomorphology 2, hydrometeorology, pedology 2, vegetation and conservation; together with *one* from urban and regional planning, China, Latin America, U.S.S.R.
EXAMINATION: 3 papers and submission of a report on the research project.

Field work in terms and vacation is an integral part of these courses and will be tested in the examinations.

Management Studies A

For the degree of Bachelor of Science, in one subject; except as provided elsewhere in this section.

Management Studies A1

Introduction to Industrial Management A1

Mr. F. P. G. Whitaker. One hour a week throughout the year, and discussion sections each meeting fortnightly for one hour at times to be arranged.

A systems approach to the internal operation of the firm and to the firm in its external environment. The firm as a technological system: interdependence; resource flows; input-output relationships; specialisation and yield; product functions; systems approach to markets. The firm as a resource-flow system: interdependence; liquidity; choice; exchanges with the outside environment. The firm as a decision-making and information-processing system; strategical and tactical decision-making in the firm; management decisions; by whom and by what means they are taken.

Processes of planning and of control. The firm as a social system: organisational devices and their consequences; management as environmental control.

EXAMINATION: 1 3-hour paper (objective test).

Management Economics A1

Mr. P. W. T. Moreton. One hour a week throughout the year.

A simple introduction to the economics of the business firm. The firm in economic theory (basic concepts): supply, demand and the price mechanism; elasticity; the law of diminishing returns; the economics of scale; specialisation; the margin; costs and revenue under perfect competition and monopoly. The firm in the real world: definitions of the firm; the profit motive and the role of enterprise; internal growth; the managerial team; risk and uncertainty and the direction of growth; diversification; acquisition and merger; large and small firms.

EXAMINATION: 1 3-hour paper.

Management Studies A2

For students who have completed Management Studies A1.

Organisation Theory A2

Mr. T. E. Stephenson. One hour a week throughout the year.

An introduction to the administrative structures and problems of the firm. The course will examine the major schools of thought in organisation theory and will relate them to such organisational problems as the achievement of objectives, the maintenance of the internal system and adaptation to the external environment.

Objectives: the problems of determining objectives. The internal system; the formal structure and human behaviour; staff and line; conflict; leadership styles; control and communications; the influence of technology. The environment: influence of external groups—trade unions; 'mechanistic' and 'organic' forms of organisation; growth and adaptation.

EXAMINATION: 1 3-hour paper.

Quantitative Methods in Decision Making A2

Mr. C. R. Clark. One hour a week throughout the year.

A course to examine the principles of decision-making and problem-solving in an industrial environment. The course will cover some of the techniques used in Operational Research. Topics include: linear programming; the transportation problem; game theory; the appreciation of queueing theory and stock control. The course is mathematically orientated, and candidates should preferably have G.C.E. 'A' level in mathematics.

EXAMINATION: 1 3-hour paper.

Management Studies A3

For students who have completed Management Studies A2. The course consists of Social and Industrial Psychology A3 and *either* Applied Organisation Studies A3 *or* Management Economics A3.

Social and Industrial Psychology A3

Dr. J. Hayes. One hour a week throughout the year.

The purpose of the course is to give students an appreciation of some of the human problems encountered in organisation. Behaviour of individuals: motivation; frustration; perception; communication (with particular reference to interviewing, selection tests and advertising). Behaviour of groups: norms and conformity; roles; influence of technology on social structure; leadership; authority. Theories of organisation: bureaucracy; the structural approach; the 'human relations' approach; the systems approach; change and stability. Syndicates will be formed in the class to study specialised areas.
EXAMINATION: 1 3-hour paper.

either

Applied Organisation Studies A3

Mr. K. W. Bamforth. One hour a week throughout the year.

The course considers case studies and examples and the findings of empirical research. Selection and training; methods and measures. Organisational structure; problems of role definition and role relationships, and their part in communications. The changing pattern of the personnel function. Theories of organisation; applications in research and practice. Changes arising from transition from owner management to professional management. Systems models of organisations; theory and application. Social changes within organisations; group methods, in principle and in application.
EXAMINATION: 1 3-hour paper.

or

Management Economics A3

One hour a week throughout the year.

The purpose of this course is to examine the economic environment in which the firm operates and to examine some specific economic problems encountered by the manager. The firm and the economy: the components of aggregate demand, with special reference to investment; inflation; the balance of payments. The firm and the efficient use of resources; interests of owners and managers; role of the board of directors; acquisition as a method of growth and of re-allocating resources; monopoly and restrictive trading practices; the labour market, including forecasting and the impact of taxation. The firm and technical change; research and development; automation; change and redundancy; change and older workers. The firm and its markets.
EXAMINATION: 1 3-hour paper.

Management Studies I

One-year course for the degree of Bachelor of Science.

Introduction to Industrial Management I

Mr. F. P. G. Whitaker. One hour a week for one term.

The elements of a systems approach to the firm. The firm as a technological system, and as a resource flow system; the firm as an information-processing and decision-making system.
EXAMINATION: 1 1½-hour paper (objective test).

Organisation Theory I

Mr. T. E. Stephenson. One hour a week for one term.

This course will examine the basic theories of organisation and consider their significance to the solution of organisational problems.
EXAMINATION: 1 1½-hour paper.

Management Economics I

Mr. P. W. T. Moreton. One hour a week for one term.

A general appraisal of some economic factors influencing the manager's decision making.
EXAMINATION: 1 1½-hour paper.

Quantitative Methods in Decision Making I

Mr. J. P. Dickinson. One hour a week for one term.

This course will briefly cover some of the mathematical techniques of Operational Research, and thereby give some insight into problem solving in an industrial environment.
EXAMINATION: 1 1½-hour paper.

One additional revision lecture will be given for each of the four series of lectures in Management Studies I.

For the degree of Bachelor of Science with honours in chemical engineering

Management Studies 2CE

Second or 3rd year; Monday 9 to 10 and Tuesday 11 to 12.
The 'Introduction to industrial management I' and 'Management economics I' components of Management studies I, and the 'Quantitative methods in decision making A2' component of Management studies A2.
EXAMINATION: 2 1½-hour papers and 1 3-hour paper.

Management Studies 3CE

Third or 4th year; Tuesday 10 to 11 and Thursday 9 to 10.
The 'Organisation Theory A2' component of Management studies A2, and the 'Management Economics A3' component of Management studies A3.
EXAMINATION: 2 3-hour papers.

THE UNIVERSITY OF LEEDS

School of Medicine
1971-72

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Admission of Undergraduate Students

In order to be eligible for admission to the School of Medicine candidates must:

1. Have reached the age of 17 before being admitted, except in cases approved by the Vice-Chancellor.

2. Satisfy the general requirements for entry upon a degree course as laid down by the Joint Matriculation Board. Confirmation of this must be obtained from the Secretary of the Board, Manchester, M15 6EU.

3. For entry to the first year of the M.B., Ch.B. course, the following passes in a General Certificate of Education examination are required: (a) two approved subjects at advanced level, together with (b) Mathematics at ordinary level.

4. For exemption from the first year, passes in a General Certificate of Education examination in three approved subjects at advanced level are required: one of these subjects must be Chemistry; the other two from the following subjects: (a) Physics, (b) Mathematics, (c) Zoology or Biology.

5. It is emphasised that mere passes in the subjects of the Course Requirement will seldom secure entry. Whether in fact a candidate will be acceptable will usually depend on the level of marks or grades he obtains in those subjects, a level which will be indicated to him individually if he receives a conditional offer of a place.

6. Mature Candidates: In general all applicants are expected to satisfy the entrance requirements in the normal way as indicated above.

7. All candidates for admission to the University who have been at a school or other educational institution within one year of their application for admission are required to produce a certificate of good conduct and of fitness for entrance to the University from the headmaster or headmistress of the school, or from the head of the institution which they have last attended. All other candidates are required to have their applications endorsed by some responsible person of whom enquiry may be made.

8. All applications for admission must be made through the Universities Central Council on Admissions.

9. All prospective applicants are urged to consult their headmaster or headmistress before applying for admission to the University.

10. Candidates still at school who wish to apply for entry should obtain application forms from their headmaster or headmistress. All other applicants resident in the United Kingdom at the time of application, including graduates in other disciplines, should obtain forms from the Secretary, the Universities Central Council on Admissions, G.P.O. Box 28, Cheltenham, Gloucestershire, GL50 1HY.

11. Overseas Students: It should be noted that applications from overseas students will normally be considered only if they are accompanied by recommendations from their appropriate student units. Applicants whose native language is not English are required to provide evidence, in accordance with the regulations, that they have a sufficient knowledge of both written and spoken English. Applications from persons resident abroad should be submitted through the appropriate official agency, who will supply the necessary form. Applications from countries without an Overseas Students Office in the United Kingdom should be made directly to the Secretary, Universities Central Council on Admissions, G.P.O. Box 28, Cheltenham, Gloucestershire, GL50 1HY.

12. Completed application forms should reach the Universities Central Council on Admissions by such dates as are announced from year to year. Late applications may be considered if places are available.

Prescribed Scheme of Study for the Degrees of Bachelor of Medicine and Bachelor of Surgery

General

Students must have fulfilled the entrance requirements of the Joint Matriculation Board of the Universities of Manchester, Liverpool, Leeds, Sheffield and Birmingham. The full medical curriculum extends over six years. Exemption, however, may be granted from the first-year courses and the first examination to suitably qualified candidates. After completing or gaining exemption from the first examination students must spend five academic years on a prescribed scheme of study, three years of which shall be clinical years.

The pre-clinical period, three years in length, is spent in the study of physics, chemistry, zoology, anatomy, physiology and medical psychology and biochemistry. The final period of three academic years (thirty-three months) is devoted to pharmacology and pharmacy, pathology and bacteriology, and the various clinical subjects, including hospital practice. During the clinical period students are required to attend hospital practice throughout the year during term and vacation alike. They are permitted to take a maximum of two months' holiday during the fourth year, but in the fifth and sixth years only such holiday as is specially sanctioned.

The regulations of the School of Medicine of the University of Leeds require that in general the professional examinations be passed at the prescribed periods. Failure to appear at an examination without adequate reason will be treated as equivalent to a failure. Students must pass the examinations of one period before they are permitted to begin the studies of that which follows.

The curriculum is arranged to give a thorough and complete medical education and to this end all lectures and classes (as well as the clinical appointments) must be taken in the order indicated in the following pages. No variation from this order will be allowed unless expressly permitted by the Dean of the Faculty. No part of the course is to be looked upon merely as a formality necessary for 'signing up'.

Students should consult the Dean shortly before sitting for their Final Examination so that they may be advised of the procedures necessary on qualifying to obtain provisional registration under the Medical Act, 1956.

Attention is drawn to the possibility of combining the medical course with schemes of study for the degree of Bachelor of Science with honours in anatomy, biochemistry, pharmacology or physiology. Details of these schemes are given in the prospectus, *Faculties of Science and Applied Science*, pages G17, G18, G27 and G30. Further information concerning the biochemistry scheme may be obtained from the professor of biochemistry, the School of Medicine, Leeds, LS2 9NL. Students intending to combine courses should in all cases consult the head of the department concerned before beginning the medical course.

The Pre-clinical Period

Year	*Lectures and Laboratory Courses*	*Examinations*
First Year	Physics, chemistry and zoology	First Examination (June and September)
Second Year	Anatomy, biochemistry and physiology	Departmental Examinations (June)
Third Year	Anatomy, physiology and medical psychology and biochemistry	Second Examination (June and September)

The period of clinical study begins on the completion of the Second Examination.

The Clinical Period

Year	*Lectures and laboratory courses*
First Clinical Year	
First term	Introductory pathology and bacteriology, pharmacology
Second term	Introductory medicine and surgery, pathology, bacteriology, pharmacology, anæsthetics
Third term	Pathology, bacteriology, pharmacology, medicine, surgery
Second Clinical Year	
First term	Forensic medicine, special pathology, medicine, surgery
Second term	Forensic medicine, special pathology, chemical pathology, medicine, gynæcology
Third term	Forensic medicine, special pathology, public health, medicine, surgery
Third Clinical Year	
First term	Public health, medicine, surgery, therapeutics
Second term	Public health, surgery, therapeutics, applied anatomy, general practice of medicine, medical physics
Third term	Revision The courses of lectures in medicine and surgery will include lectures in the special branches of both these subjects. Lectures in obstetrics are given at the Maternity Hospital during the period of residence at Croft Hall.

HONOURS. In determining the award of honours to candidates, their performance in the second, third, fourth and final examinations will be considered.

Clinical work

Two years and nine months of hospital practice are required and are begun in October. The appointments shown below must be taken in an approved order.

Introductory pathology, bacteriology, pharmacology
Introduction to clinical practice
General medicine and dermatology
General medicine and cardiology
General surgery and ophthalmology
General surgery and E.N.T.
Obstetrics and gynæcology
Pædiatrics*
Psychiatry*
Anæsthetics
Casualty and orthopædics
Special surgery and radiology
Geriatrics and neurology
Elective period
General practice

Examinations

THE THIRD EXAMINATION

Pathology
Bacteriology
Pharmacology (together with the biochemical and physiological bases of disease)
The third examination will be held in July, three terms after commencing the study of pathology, bacteriology and pharmacology: and the re-examination will be held in the following September.

THE FOURTH EXAMINATION

Forensic medicine, chemical pathology and special pathology.
The fourth examination will be held in July and September. Candidates will not be permitted to take the examination until they have completed a prescribed course of clinical study and have also completed the courses in forensic medicine, chemical pathology and special pathology.

THE FINAL EXAMINATION

Medicine, surgery, obstetrics and gynæcology.
The final examination will be held in June and December and may not be taken until thirty-three months of clinical study have been completed.

*Instruction in infectious diseases and venereal diseases will also be given during these appointments.

General Regulations

1. *Of enrolment*

Arrangements for the enrolment of first-year students and students entering directly to the second year of studies are announced by the Registrar. Students who, by any unavoidable cause, are prevented from attending personally must communicate with the Dean by letter.

2. *Of residence*

(a) All students in full-time attendance are required to inform the lodgings warden each session before registering whether they wish to apply for residence in any of the accommodation recognised by the University and listed in the Schedule. Absolute priority will be given to undergraduate students in the first year of study at the University and the following students are normally expected to make their own arrangements for accommodation:

(i) Students who have obtained a first degree
(ii) Students who have obtained a diploma of the University
(iii) Students who have passed 2nd M.B., Ch.B., or 2nd B.Ch.D., or an equivalent examination
(iv) Students who are married

If however students in any of these categories wish to go into scheduled accommodation they may be able to obtain advice from the lodgings warden; but if they do move into scheduled accommodation they must then comply with the relevant regulations.

(b) Students residing in such scheduled accommodation may not normally move into accommodation not listed in the schedule until the following academic session. Moves from one form of scheduled accommodation to another will normally only be made after the end of term and applications to transfer must normally be made at least two weeks before the end of term.

(c) Students in scheduled accommodation are required to comply with any relevant regulations for that accommodation.

(d) All students, whether in scheduled accommodation or in unscheduled accommodation, are required to inform Students' Section of their permanent home address and their term time address. Any change to either of these should be reported to that office as soon as possible on a 'Change of Address' Form.

(e) Any student in the University may apply to the lodgings warden for advice and help in regard to accommodation problems.

Schedule of accommodation recognised by the University:

(a) University hall of residence
(b) University flat
(c) Recognised hostel
(d) Recognised lodgings
(e) Recognised non-University flat

3. *Of attendance*

Regular, punctual and orderly attendance at lectures, demonstrations and class-examinations is required of every student in order to obtain certificates of attendance. In the case of persistent neglect of work, repeated failure at professional examinations or unreasonable delay in presenting himself for such examinations, a student may be required to withdraw from the University. Examination dates, lecture times and other information relating to the course are announced on the notice-boards in the school, which should bere ferred to by all students from time to time.

4. *Of progress procedure*

A clear indication will be given to each student at the outset of his course that unless there are special circumstances affecting his progress he will be expected to fulfil the University's examination requirements within the normal time.

Warnings, not necessarily in writing, may be given to students at any time by heads of departments, deans or sub-deans that failure to improve the standard of their work may lead to their course of study being terminated.

A student may be required to terminate his course, after consideration of his examination results, without previously having been warned.

5. *Of absence*

Absence from any lecture, demonstration or class-examination because of illness or other unavoidable cause must be explained in writing, accompanied when necessary by a medical certificate to the Dean with as little delay as possible; excuses for absence cannot otherwise be accepted. Hospital work is not an excuse for absence from lectures except in the case of students on duty in the receiving room, or in attendance upon cases of midwifery. Consequently students must not take any resident hospital appointments which involve absence from lectures or classes in the school, unless they have previously informed and obtained the permission of the Dean.

6. *Of Jewish holy days*

Students who for religious reasons are unable to carry out their University work or examinations on Saturdays and Jewish holy days must give notice of this fact in writing to the Registrar and the Dean not later than 1 November in each session.

It is the responsibility of such students to inform themselves concerning the work which has been done in any classes from which they have been absent and to take appropriate action.

Every effort will be made to avoid arranging examinations on Saturdays and Jewish holy days for students who have given notice as required above, but the University reserves the right to hold examinations on such days if no alternative time is convenient.

7. *Of addresses*

Students shall inform the Administrative Office, School of Medicine, of their addresses. Changes of address must be communicated without delay.

8. *Of precautions against ionising radiations*

No person shall undertake work in the University with ionising radiations or with material which produces significant amounts of ionising radiation except with the approval of the head of the department concerned; and any person who undertakes such work, or who may, for other reasons, be subject to ionising radiations in the University, must co-operate and participate in the application of any scheme of monitoring or testing which the Radiation Protection Officer may require, and must attend such course of instruction as the head of the department may require.

9. *Of smoking*

Smoking is not allowed in the lecture theatres, class rooms, or laboratories except with the express permission of the professor or lecturer in charge.

10. *Of damage*

Students shall replace or repair at their own expense apparatus or other property of the University which may have been destroyed or damaged by their fault.

11. *Of discipline*

Students in the School of Medicine are subject to the discipline and general regulations of the University, as well as to the rules made by the Board of the Faculty of Medicine. Violation of these regulations and rules renders a student liable to immediate dismissal and to the forfeiture of all fees, certificates and privileges as a student of the University.

12. *Of compliance*

Prior to entering the School every student is required to sign the following declaration:
If registered as a student, I promise to observe the statutes, ordinances and regulations of the University for the time being in force.

ORDINANCE VI. DEGREES IN MEDICINE AND SURGERY

IMPORTANT NOTICE: *This Ordinance and the regulations for the degrees of Bachelor of Medicine and Bachelor of Surgery apply to students admitted up to and including October 1970. A new Ordinance and revised regulations will apply to students admitted in October 1971 and thereafter.*

1. The degrees in medicine and surgery shall be:
Bachelor of Medicine and Bachelor of Surgery (M.B. and Ch.B.)
Master of Surgery (Ch.M.)
Master of Philosophy (M.Phil.)
Doctor of Philosophy (Ph.D.)
Doctor of Medicine (M.D.)

THE DEGREES OF BACHELOR OF MEDICINE AND BACHELOR OF SURGERY

2. Candidates for the degrees of Bachelor of Medicine and Bachelor of Surgery are required to present evidence showing that they will have attained the age of twenty-one years on the day of graduation, and that they have attended courses of instruction approved by the University extending over not less than five academic years, of which at least two years have been passed in the University.

3. Before entering upon courses for the degrees of Bachelor of Medicine and Bachelor of Surgery candidates must have satisfied the requirements for entry upon a degree course as laid down by the Joint Matriculation Board of the Universities of Manchester, Liverpool, Leeds, Sheffield and Birmingham.

4. To qualify for the degrees of Bachelor of Medicine and Bachelor of Surgery candidates must satisfy the examiners in the first, second, third, fourth and final examinations.

5. FIRST EXAMINATION
The subjects approved for the first examination are:
Chemistry
Physics
Mathematics
Zoology

Of these, all candidates must take chemistry and two of the remaining subjects chosen with the approval of the Dean.

6. Candidates, before presenting themselves for the first examination, are required to furnish evidence of having attended courses of instruction in accordance with the regulations of the University.

7. The names of candidates who have satisfied the examiners in the first examination shall be published in alphabetical order.

8. The second examination shall consist of three subjects:
Anatomy
Physiology and medical psychology
Biochemistry

9. Candidates, before presenting themselves for the second examination, must have passed or have been exempted from the first examination and are required to furnish evidence of having attended courses of instruction in accordance with the regulations of the University.

10. The names of candidates who have satisfied the examiners in the second examination shall be published in alphabetical order. Distinction may be awarded in the examination in one or more of the subjects anatomy, physiology, biochemistry.

11. (a) The third examination shall consist of the following subjects:
Pathology
Bacteriology
Pharmacology
(b) The fourth examination shall consist of the following subjects:
Forensic medicine
Chemical pathology
Special pathology.

12. Candidates, before presenting themselves for the third and fourth examinations, must have passed the second examination and are required to furnish certificates of having attended courses of instruction in accordance with the regulations of the University.

13. Distinction may be awarded in one or more of the subjects, bacteriology, pharmacology and pathology, of the third examination, and in one or more of the subjects, forensic medicine, chemical pathology and special pathology, of the fourth examination.

14. The final examination shall consist of three subjects: Medicine, surgery and obstetrics and gynæcology.

15. Candidates, before presenting themselves for the final examination, must have passed the third examination and are required to furnish certificates of having attended courses of instruction in accordance with the regulations of the University.

16. (a) Candidates who have satisfied the examiners in the fourth and final examinations may be awarded:

(i) the degrees of Bachelor of Medicine and Bachelor of Surgery with Honours
or (ii) the degrees of Bachelor of Medicine and Bachelor of Surgery.

(b) The names of successful candidates in each group shall be arranged in alphabetical order. Distinction may be awarded in individual subjects of the final examination.

[See also the regulations on pages H11-14.]

THE DEGREE OF MASTER OF SURGERY

17. The degree of Master of Surgery may be conferred upon Bachelors of Medicine and Bachelors of Surgery of the University of not less than five years' standing, subject to the conditions laid down in the following articles.

18. Each candidate shall present a thesis on an approved subject in surgery, or in some related field, provided that the work has an application to surgery. The thesis must be the work of the candidate and must embody the results of personal observations or of original research. Original published work will be admissible in lieu of or in addition to a thesis specially written for the degree. Candidates may be required to appear for an oral examination on the subject matter of the thesis or the published work.

19. The names of candidates who have been approved for the degree of Master of Surgery shall be published in alphabetical order. In cases of exceptional merit the degree may, on the recommendation of the examiners, be awarded with distinction.

[See also the regulations on pages H14-15.]

THE DEGREE OF MASTER OF PHILOSOPHY

[The degree of Master of Philosophy is governed by Ordinance VIII, articles 10 to 20 and the relevant regulations which are set out in the prospectus, *Faculty of Arts*, pages C11-13 and C17-18.]

THE DEGREE OF DOCTOR OF PHILOSOPHY

[The degree of Doctor of Philosophy is governed by Ordinance VIII, articles 21 to 28 and the relevant regulations which are set out in the prospectus, *Faculty of Arts*, pages C13-14 and C18-19.]

THE DEGREE OF DOCTOR OF MEDICINE

20. The degree of Doctor of Medicine may be conferred upon Bachelors of Medicine and Bachelors of Surgery of the University of not less than three years' standing, subject to the conditions contained in the following articles.

21. Candidates shall be required to present a thesis. The thesis must be the work of the candidate and should embody the results of personal observations or original research, either in some department of medicine or in some science directly related to medicine; provided always that original published work shall be admissible in lieu of or in addition to a thesis especially written for the degree. The thesis must make a contribution to knowledge and must afford evidence of originality either by the discovery of new facts or in the critical approach to facts already known. The literary presentation of the thesis must be satisfactory. Candidates will normally be required to present themselves for an oral examination, but if the thesis is of a sufficiently high standard the degree may be awarded without further examination.

22. The names of candidates who have been approved for the degree of Doctor of Medicine shall be published in alphabetical order; in cases of exceptional merit, the degree may, on the recommendation of the examiners, be awarded with distinction.

[See also the regulations on page H15.]

Regulations

THE DEGREES OF BACHELOR OF MEDICINE AND BACHELOR OF SURGERY

1. The scheme of study leading to the degree of M.B., Ch.B. may extend over six years but suitably qualified candidates may be exempted from the first year and be able to complete the course in five years.

Candidates should note that in order to qualify for admission to a scheme of study for a first degree in the University, they must satisfy both a *General Requirement* and a *Course Requirement*. For information regarding the *General Requirement*, for purposes of matriculation, candidates should write to The Secretary, Joint Matriculation Board, Manchester, M15 6EU. The *Course Requirement* is set out below.

Course Requirement

Six-year scheme: for admission to the scheme passes in two approved subjects at advanced level are required. These passes should preferably be in physics and chemistry but passes may be in other subjects, including Arts subjects. Candidates must have a pass at ordinary level in mathematics and passes at ordinary level in physics and chemistry are desirable.

For exemption from the first year of the scheme passes in three approved subjects at advanced level are required.
One of these passes must be in chemistry.
The other passes may be in any two of the following subjects:

(a) Physics
(b) Mathematics
(c) Zoology or biology.

2. During the first five years, a year of medical study which is to count as part of the degree course must include in each term attendance upon at least two of the prescribed courses of lectures or laboratory work, or upon one such course together with hospital practice.
The attendance must be given at the University or at a college, medical school or hospital recognised for this purpose by the University.

3. Candidates must present themselves for examination or re-examination in all the subjects prescribed for any examination at the same time except as provided in regulations 4 and 8 below.

4. Candidates who failed (a) in any subject of the first examination or (b) in any subject of the second examination or (c) in any subject of the final examination may be exempted from re-examination in such subjects of the respective examinations as the appropriate examination committee may determine.

5. Candidates for the first examination are required to have attended approved courses at the University or at an institution recognised for this purpose by the University or to have attended, at some other institution, courses of instruction accepted as equivalent by the Senate.

6. The courses of instruction shall be as follows:

(a) Chemistry: lectures and laboratory work for at least three terms
(b) Physics: lectures and laboratory work for at least three terms
(c) Mathematics: lectures for at least three terms
(d) Zoology: lectures and laboratory work for at least three terms.

7. The first examination will be held in June. It will include laboratory work in each of the subjects listed in regulation 6(a), (b) and (d) above. Candidates who fail to satisfy the examiners in any subject of the examination in June may be granted permission by the Senate to present themselves for a supplementary examination in September.

8. Exemptions may be granted as follows:

(a) Candidates who have passed in chemistry, physics, mathematics or zoology at the advanced level in a General Certificate of Education examination will be granted exemption from the courses and examinations in the same subject or subjects of the first examination.

(b) Candidates who have passed in biology at the advanced level in a General Certificate of Education examination will be granted exemption from the course and examinations in zoology of the first examination.

(c) Candidates who hold qualifications deemed by the Senate to be equivalent to the above may also be granted exemption.

9. A candidate who is exempted from one or two subjects only of the first examination must take in his first year three or four courses and pass the prescribed examinations in three of them. At least one of these courses must be a course for the degrees of Bachelor of Medicine and Bachelor of Surgery, the remaining course or courses must be selected from Mathematics 1Z* and other appropriate first-year courses in the University.

The courses selected must be approved by the Dean.

10. Candidates will not be allowed to proceed with the courses in anatomy and physiology and biochemistry until they have fulfilled or gained exemption from the requirements of the first examination as laid down in Ordinance VI, articles 4 and 5, and have passed the prescribed examinations, as required in regulation 9 above, in the subjects selected for study in the first year.

11. Candidates for the second examination are required to have attended courses of instruction in:

Anatomy, including embryology and histology and the dissection of the human body for a period extending over at least six terms.
Physiology for at least five terms, including laboratory instruction.
Biochemistry for at least six terms, including laboratory instruction.
Medical psychology for at least two terms.

12. Candidates will be required to present themselves for departmental examinations at the end of the first year in anatomy, physiology and biochemistry. The result of these examinations will be taken into account in assessing a candidate's progress.

Candidates who are judged to have failed to make sufficient progress may be required (a) to repeat the year, or (b) to withdraw from the University.

13. The second examination will be held in June.

Candidates who fail to satisfy the examiners may be permitted to present themselves for re-examination in September.

14. Candidates will not be allowed to proceed to clinical studies until they have passed the whole of the second examination.

15. The third, fourth and final examinations may be taken in any order provided that the final examination may not be taken until the third examination has been passed.

16. The third examination will be held in July, three terms after commencing the study of pathology, bacteriology, and pharmacology; and the re-examination will be held in the following September.

* A course for first-year students who do not propose to proceed to further studies in mathematics.

Candidates for the third examination are required to have attended approved courses in pathology, bacteriology and pharmacology, including laboratory work, for a period extending over not less than three terms.

17. Candidates will be regarded as having passed the third examination if they take all subjects at the same time and satisfy the examiners in the examination taken as a whole.

18. The third examination shall consist of the following subjects:
Pathology
Bacteriology
Pharmacology (together with the biochemical and physiological bases of disease).

19. Candidates for the third examination who fail to satisfy the examiners must, before being admitted to re-examination, have pursued such further study as may have been required by the examination committee.

20. The fourth examination will be held in July and September. Candidates will not be permitted to take the examination until they have completed a prescribed course of clinical study, and are required to have attended:

(a) approved courses in forensic medicine (including toxicology) extending over a period of not less than three terms

(b) an approved course in chemical pathology extending over a period of not less than one term

(c) approved courses in special pathology extending over a period of not less than three terms.

21. The subjects of the fourth examination shall be:
Forensic medicine (including toxicology)
Chemical pathology
Special pathology.

22. Candidates will be regarded as having passed the fourth examination if they take all subjects at the same time and satisfy the examiners in the examination taken as a whole.

23. Candidates for the fourth examination who fail to satisfy the examiners must, before being admitted to re-examination, have pursued such further study as may have been required by the examination committee.

24. The final examination will be held in June and December and may not be taken until thirty-three months of clinical study have been completed.

25. Candidates for the final examination must have attended approved courses in the subjects which they offer themselves for examination.
It is required
(a) in medicine
that they have attended courses in general medicine, pædiatrics, psychology and psychiatry, therapeutics, clinical pathology and other special branches of medicine extending over eight terms;
that they have held in a hospital approved by the University, the appointments of medical clerk for five months and of clerk in the department of pædiatrics for four months;
that they have received clinical instruction in dermatology, infectious diseases, neurology, venereal diseases and psychiatry and have held clerkships in these subjects for such periods and in such manner as the Board of the Faculty of Medicine may from time to time determine; and
that they have attended approved courses in public health extending over a period of not less than three terms

(b) in surgery
that they have attended courses in general surgery, orthopædic surgery, ophthalmology, otology and other special branches of surgery extending over seven terms;
that they have held, in a hospital approved by the University, the appointment of general surgical dresser for five months; and
that they have received clinical instruction in casualty surgery, ophthalmology, orthopædic surgery, otology and other special branches of surgery and have held dresserships in these subjects for such periods and in such manner as the Board of the Faculty of Medicine may from time to time determine;
(c) in radiology that they have attended a course during one term;
(d) in anæsthetics that they have attended a course of instruction during one term and have received practical instruction in the administration of anæsthetics;
(e) in obstetrics that they have attended during not less than three months the indoor and outdoor practice of a lying-in hospital or the lying-in wards of a general hospital approved by the University and, subsequent to having acted as surgical dresser and medical clinical clerk, have personally conducted not less than twenty cases of labour, or such lesser number as may be approved;
(f) in gynæcology that they have attended a course of instruction during one term and have received at least two months approved clinical instruction in either a general or a special hospital.

26. The subjects of the final examination shall be:
(a) Medicine, systematic and clinical, including therapeutics and the special branches of medicine;
(b) Surgery, systematic, clinical and practical, including the special branches of surgery;
(c) Obstetrics and gynæcology, systematic, clinical and practical
In each of these three subjects, candidates will not pass unless they satisfy the examiners in the clinical parts of the examination.

27. In determining the award of honours to candidates their performance in the second, third, fourth and final examinations will be considered.

28. Candidates who fail to satisfy the examiners in the final examination must, before being admitted for re-examination, have pursued such further study as may be required by the examination committee.

THE DEGREE OF MASTER OF SCIENCE

For the schemes of study leading to the degree of Master of Science in medical physics and in steroid endocrinology, see the prospectus *Faculties of Science and Applied Science*.

THE DEGREE OF MASTER OF SURGERY

29. A graduate who wishes to be accepted as a candidate for the degree must apply to the Board of the Faculty of Medicine.*
He must submit:
(a) Documentary evidence that for at least three years since taking the degrees of Bachelor of Medicine and Bachelor of Surgery he has held appropriate training appointments in surgery at a recognised teaching hospital or similar institution and that he has acquired a satisfactory knowledge of the theoretical and practical aspects of surgery. Exceptionally, after consideration of the evidence submitted, the Board of the Faculty of Medicine may require an applicant to pass a qualifying examination in surgery which may be written, oral, clinical and practical.
(b) The title of the proposed thesis or published work, accompanied by a short outline (not exceeding 500 words) of the proposed or actual scope of the work and of the methods involved.

* Before making application to the Board of the Faculty of Medicine, such graduates are advised to consult the professor of surgery.

30. After being accepted and after the subject of the proposed thesis or published work has been approved by the Board of the Faculty of Medicine, a candidate must send to the Registrar an application to be examined, accompanied by three copies [printed or typewritten] of his thesis or published work, including illustrations. In the event of the degree being awarded, one copy of the thesis approved for the degree will be retained in the University library.

31. A candidate shall not be permitted to submit a thesis or published work for which a degree has already been conferred or which is under consideration for the award of a degree, in this or any other university; but he shall not be precluded from incorporating in his thesis any part of the work already submitted by him with a view to a degree for which he has been a successful candidate, provided that in his application he states his desire to do so and clearly indicates in due course the part of the work which has been so incorporated.

32. A candidate submitting work previously published under joint authorship shall be required to indicate to the satisfaction of the examiners his own share in the joint publication.

33. Applications must be made on a form to be obtained from the Dean's office, School of Medicine, and must be accompanied by the prescribed examination fee of £50.

THE DEGREE OF DOCTOR OF MEDICINE

34. Each candidate must submit the title of his thesis or published work for the approval of the Board of the Faculty of Medicine. The title must be accompanied by a short outline (between 400 and 500 words) of the proposed or actual scope of the work and of the methods involved.

35. Such approval having been obtained, a candidate must send to the Registrar an application to be examined accompanied by three copies [printed or typewritten] of his thesis or published work, including illustrations. A copy of the thesis approved for the degree will be retained in the University library.

36. A candidate shall not be permitted to submit a thesis or published work for which a degree has already been conferred upon him or which is under consideration for the award of a degree in this or any other university.

37. A candidate submitting work previously published under joint authorship shall be required to indicate to the satisfaction of the examiners his own share in the joint publication.

38. The oral examination will in general be confined to the subject matter of the thesis or published work of the candidate.

39. Applications are to be made on a special form to be obtained from the Dean's office, School of Medicine, and must be accompanied by a fee of £50.

40. Candidates will be informed normally within three months of the receipt of their thesis whether they will be required to attend for an oral examination; candidates required to attend will be given not less than six week's notice of the date of the examination.

Intending candidates are advised to discuss their proposals and work with the head of the department of the Faculty of Medicine most closely related to the subject of study. He will usually be able to suggest a person to whom the candidate may turn for advice on drawing up the proposed study and carrying it out. This person may or may not be in one of the University departments.

THE DIPLOMA IN PUBLIC HEALTH

41. The course for the diploma in public health shall extend over a period of one academic year of full-time study. The course will begin in October and the examination will be held in June and on one further occasion during the year.

42. A candidate must have held a registrable medical qualification for at least two years before commencing the course.

43. Instruction shall include:

(a) The history of public health and social welfare; the evolution of central and local authorities; and the evolution of the law in relation to public health administration.
(b) The existing functions of central and local authorities and voluntary organisations; the nature and objects of the public health and medical services which they administer; the agencies for the relief of poverty and the promotion of social welfare.
(c) Principles of management.
(d) Sanitation, water supplies, housing, town and country planning, and the application of scientific principles thereto. The interpretation of building plans.
(e) The influence on physical and mental health of environment, including housing and occupation, economic circumstances, nutrition and personal hygiene. Physiology and biochemistry in relation to health. Physical education in relation to health and efficiency.
(f) The influence of heredity on health.
(g) Bacteriology, parasitology and medical entomology as applied to epidemiology.
(h) Clinical instruction in infectious diseases.
(i) Community aspects of disease. Administrative measures in relation to communicable and other diseases.
(j) Information relating to public health; nature, sources and numerical presentation. The presentation of statistical data in memoranda and scientific articles.
(k) The mental health services; social consequences of mental illness; mental subnormality.
(l) Methods of educating the public in the promotion and maintenance of health.
(m) After-care and rehabilitation.
(n) International health.
(o) Radiation hazards.

44. No candidates shall be admitted to the examination for a diploma in public health until he has satisfactorily completed courses of instruction, in accordance with these regulations.

45. The examination shall include written papers, a clinical examination in infectious diseases and an oral examination. In addition, each candidate must present a dissertation on an approved subject.

46. The diploma may be awarded with distinction to a candidate whose work is adjudged to be of outstanding merit.

47. At the discretion of the examiners, a candidate may be referred for a year and may be required to repeat the whole or part of the courses before re-examination. Except with the permission of the Senate, a candidate will not be allowed to present himself for examination on more than three occasions.

FEES

The fee for the course shall be £114.50 for United Kingdom students.
This includes the examination fee. For re-examinatic· a fee of £12 is charged.
The course will not be held unless at least six studen:s have enrolled.

THE DIPLOMA IN PSYCHOLOGICAL MEDICINE

48. The examination for the diploma is in two parts, consisting of written, oral, practical and clinical tests of the candidate's proficiency.

49. Before being admitted to the first part of the examination, candidates must produce evidence:

(a) of having attended, after obtaining a registrable medical qualification, approved courses of instruction in the subjects of the examination over a period of three terms in the University

(b) of having completed not less than nine months' full-time or its equivalent part-time practice in psychiatric hospitals or units approved by the University for this purpose.
(The requirements of sub-paragraphs (a) and (b) above may be fulfilled concurrently.)

50. The subjects for the first part of the examination shall be:

(a) Psychology
(b) The elements of the social sciences; medical genetics; biochemical basis of nervous activity
(c) The development, structure and function of the nervous system.

51. The examination for the first part shall be held in June and shall consist of written papers and oral examinations in each of the three groups of subjects (a), (b) and (c) in paragraph 50. A supplementary examination will also be held in September, but, except with the special permission of the Senate, a candidate will not be admitted to the September examination unless he has presented himself for the corresponding examination in the preceding June. Candidates must present themselves for the whole of the first part of the examination on the same occasion.

52. Before being admitted to the second part of the examination a candidate must have passed the first part of the examination and fulfilled the following requirements:

(i) He must present evidence (a) of having completed not less than twenty-one months' full-time or its equivalent part-time practice in psychiatric hospitals or units, approved by the University for this purpose, including:

(i) Clinical instruction in mental subnormality
(ii) Clinical instruction in child guidance and child psychiatry
(iii) Instruction in clinical neurology

(b) of having attended approved courses of instruction in the University in the following subjects:

(i) General psychiatry
(ii) Neurology, including neuropathology
(iii) Mental deficiency
(iv) Psychopathology and psychotherapy
(v) Child psychiatry
(vi) Medico-legal psychiatry

(ii) He must also submit a report on an approved research project or an essay on an approved topic, to be prepared under the supervision of a member of the academic staff of the University.
Courses of instruction may be taken concurrently with the tenure of clinical appointments.

53. A candidate must present evidence of having practised clinical psychiatry full-time for a minimum period of two years, or an equivalent part-time period, before he may be awarded the diploma. All clinical practice must have included emergency duties. Candidates may present themselves for examination in accordance with the provisions of regulations 49 (b) and 52 (i) (a).

54. No course will be held unless a sufficient number of students has enrolled.

55. The second part of the examination to be held in June shall be in the subjects specified in regulation 52 (i) (b) and shall consist of two written papers, a clinical examination in neurology, a clinical examination in psychiatry, and an oral examination. A supplementary examination will also be held in December, but, except with the special permission of the Senate, a candidate will not be admitted to the December examinations unless he has presented himself for the corresponding examination in the preceding June. Candidates must present themselves for the whole of the second part of the examination on the same occasion.

56. The conditions of admission and the requirements of the scheme of study may be modified by the Senate in the case of candidates who show evidence of prolonged study of, and training in psychological medicine, or who have made original contributions of merit to psychiatric theory or practice, provided that no exemption will be granted from either part of the examination.

57. Application for admission to either course should be made by 15 July of the preceding session, and should be accompanied by a deposit of £10.50. The applicant will be informed by 31 July whether or not the course in question is to be held; if it is not held the deposit will be returned.

58. Entries for parts I and II of the examination must be submitted upon the prescribed form not later than the dates given below:

Part I 1 May or 1 August for the June and September examinations respectively
Part II 1 May or 1 November for the June and December examinations respectively.

59. A list of the successful candidates in each part of the examination will be published in alphabetical order. The diploma may be awarded with distinction to a candidate whose work is judged to be of outstanding merit.

60. At the discretion of the examiners, a candidate may be referred for a year and may be required to repeat the whole or part of the courses before re-examination. Except with the permission of the Senate a candidate will not be permitted to present himself for either part of the examination on more than three occasions.

FEES

The fees for the courses, which include the examination fees, shall be:
First part course, £40
Second part course, £40 } for United Kingdom students
First part re-examination, £6.30
Second part re-examination, £12.60

CERTIFICATE IN PSYCHIATRIC SOCIAL WORK

61. In order to meet the demand for qualified psychiatric social workers for employment in general and mental hospitals, child guidance services, hospitals for the subnormal, H.M. Prison Service, local authority mental health services and in connection with special schools and hostels for maladjusted children, the University of Leeds offers a Certificate in Psychiatric Social Work. To qualify for this certificate, students must complete a course of study lasting one calendar year, pass the necessary examinations and obtain satisfactory reports on their practical work. The certificate carries no title to a degree.

62. Candidates must have been recommended as suitable entrants to the course by a selection committee and must normally fulfil the following conditions:
1. Be over the age of 23 (only in special circumstances, one year or less under this age).
2. Hold a degree or a social study diploma, or, if supplemented by practical experience, a certificate in social studies;
or hold other approved educational qualifications and have had substantial experience in some branch of social work which shall be judged to be sufficient.

63. The theoretical content of the training consists of lectures, seminars, tutorials and discussions in the following subjects:

Psychiatry
Psychopathology
Mental subnormality
Psychology (including the theory of intelligence and projective testing)
Human growth and development
Principles and methods of social work
Historical, legal and social aspects of mental health work
Social, psychological and legal aspects of delinquency and crime
Social administration.

Students will attend the clinical teaching sessions held in the Department of Psychiatry and/or in the psychiatric unit, Leeds (St.James's) University Hospital, and will also attend demonstrations at a child guidance clinic and a hospital for the subnormal and at any other appropriate institutions and clinics.

64. *Examination*

The following will be the subjects of examination:
1. General, social and child psychology
2. Psychiatry and mental subnormality
3. Social work
4. Social administration.

Students will be assessed throughout the course on their practical work and their written work. In assessing the results, the examiners may take into account the tutors' and the supervisors' estimates of the students' practical performance. The certificate may be awarded with distinction to a candidate who reaches the required standard in both the written examinations and the practical work.

The examination takes place in June and re-examination in September. The certificate will be withheld until requirements in practical work have been satisfactorily completed.

If the student has satisfied the examiners in his theoretical subjects but not in his practical work, he need not repeat the theoretical courses or sit any further examination in those subjects.

If the student has failed to satisfy the examiners in practical work, he may, at the discretion of the examiners, be granted the certificate after completing a further period of practical work in an approved hospital or clinic.

It may be deemed necessary to request a student who has failed to satisfy the examiners in practical work to undertake a further period of training and in addition present himself for re-examination, in which event he must do so within a calendar year from the end of the session in which he failed to satisfy the examiners in practical work, unless Senate expressly agrees to extend this.

Last date of entry to June examination—31 March.
Last date of entry to September examination—20 July.

Field Work

Half the students' time will be devoted to practical work under supervision. For this purpose they will have one attachment (3-4 months) to a centre for the treatment of adults and one (3-4 months) to a centre for the treatment of children, both to be concurrent with the theoretical part of the course.

During the summer vacation, students will continue their training in a placement selected to complete their experience. All practical work throughout the course takes place under the direction of psychiatrists and senior psychiatric social workers.

FEES

The fee for the course (for United Kingdom students) including examination and membership of the University Union, is £82.50. The fee for re-examination is £5.

Students are advised to allow the sum of £15-20 for fares and expenses in connection with their practical work.

A form of application for admission to the course may be obtained from the Secretary, Department of Psychiatry, 15 Hyde Terrace, Leeds, LS2 9LN. Return of the form is requested before the end of January. Applications cannot normally be accepted later than the end of February in the proposed year of entry.

Applicants will be required to attend at the University for interview by a selection committee.

HEALTH VISITORS' COURSE IN PREPARATION FOR THE CERTIFICATE OF THE COUNCIL FOR THE TRAINING OF HEALTH VISITORS

The University provides a course which lasts one calendar year and includes a period of continuous supervised practical work.

Candidates must be state registered nurses and either hold a midwifery certificate, or have completed an approved course of obstetric nursing. In addition, a minimum of five passes, including either History or English Language, at ordinary level of the General Certificate of Education is required. Other general nursing, obstetric or educational qualifications may be approved in particular cases. It may be possible to offer special facilities to applicants wishing to obtain this certificate who hold a degree or diploma of a university, or a public health nursing qualification covering one or more parts of the syllabus.

The examination is conducted by the University and consists of three written papers and an oral examination. The certificate of the Council is awarded to successful candidates who have complied with the regulations and completed satisfactorily the period of continuous supervised practical work.

Detailed information is available on application to the Department of Preventive Medicine and Public Health, 32 Hyde Terrace, Leeds, LS2 9LN.

Scholarships, Studentships, Fellowships and Prizes

Full particulars of all University scholarships (including entrance scholarships) and of the general regulations under which scholarships are awarded may be found in the prospectus, *Student Awards, Financial Aid, Medals and Prizes*.

Senior Scholarships

The Medical Scholarship

1. The scholarship was instituted by the Leeds School of Medicine in 1888. It is of the value of approximately £130 which is set against the fees for the medical course.

2. The scholarship is tenable in the Faculty of Medicine and is awarded by the Senate, after a report from the examiners, on the results of the second examination for the degrees of Bachelor of Medicine and Bachelor of Surgery of the University.

3. The scholarship will be awarded only if there is a suitable candidate who, in the opinion of the examiners, is of sufficient academic distinction, and who is in need of financial assistance.

The Infirmary Prize

1. This prize was originally founded as a scholarship in 1888 by the Faculty of the General Infirmary at Leeds. It is of the value of £75.

2. The prize is awarded by the Senate after a report from the examiners on the result of the second examination for the degrees of Bachelor of Medicine and Bachelor of Surgery of the University.

Graduate Studentships

The Freeman Fund

1. The late Mr. Robert Aspin Freeman bequeathed to the University the sum of £1,150 and expressed the desire that this bequest should be used to promote the study and investigation of digestion and disorders of digestion and that the bequest should be known as the Freeman Fund.

2. The annual income of the bequest will be used as a fund for the payment of expenses incurred in approved research on digestion or disorders of digestion. Any unexpended balance will be allowed to accumulate and will be used either for research expenses or in payment of the emoluments of a research worker. Applications must be submitted to the Registrar normally before 1 September.

Durward Travelling Studentship

1. The studentship was instituted in 1966. It was endowed by means of a fund subscribed by past students, colleagues and friends of Professor Archibald Durward, to commemorate his outstanding services to the University during his tenure of the chair of anatomy from 1936 until his death in 1964.

2. The studentship is intended to assist a medical or dental graduate of the University of Leeds to pursue research in anatomy or some subject closely related to anatomy in an approved centre other than Leeds, either in the United Kingdom or abroad, by providing additional funds.

3. The studentship will be awarded by Senate on the recommendation of a committee consisting of the chairman of the scholarships and studentships committee, the Dean of the Faculty of Medicine, the professor of anatomy, the professor of dental surgery, and two other members of the Board of the Faculty of Medicine, of whom one must be a member of the Department of Anatomy.

4. The studentship will derive from the interest of the endowment fund. The committee may vary the amount of the studentship and the frequency with which it is awarded as it deems appropriate. Any accrued income shall be carried forward so as to be available to the committee when making an award of a studentship.

5. Applications, giving particulars of age, experience and qualifications and an outline of proposed research or special study, should be submitted to the Registrar in May.

The Legg Travelling Scholarship

1. The Legg travelling scholarship was founded in 1948 by a gift of £2,000 from the trustees of the late Mr. Thomas Legg, made in memory of his association with the School of Medicine of the University of Leeds.

2. Awards will normally be made in every third year. The first award was made in 1952. If no candidate is regarded as of sufficient merit, no award shall be made and the scholarship shall be offered in the following year. Any accrued income may be added to the capital funds of the scholarship.

3. The scholarship, which has a maximum value of £200, is tenable for six months during which the holder will study at one or more approved centres other than Leeds either in this country or abroad.

4. The scholarship will normally be awarded only to candidates who have held a registrable medical qualification for not less than two years and not more than seven years at the time of the award.

5. The scholarship is open to both men and women. Candidates must be holders of an appointment of demonstrator in the School of Medicine in the University of Leeds or holders of an appointment of registrar in one of the teaching hospitals associated with the University or holders of an appointment of similar status elsewhere, provided that they have been students in the University for a period of not less than three years.

6. Other things being equal, preference will be given to applicants wishing to undertake advanced study or research in one of the clinical branches of medicine.

7. The scholarship will be awarded by the Senate on the recommendation of a committee consisting of the Dean and the professorial members of the Faculty of Medicine, together with the chairman of the scholarships committee.

8. Applications, giving particulars of the candidate's age, experience and qualifications, together with a programme of the study proposed and details of the candidate's proposed expenditure from the award, should be received by the Registrar not later than 1 May.

The Lady Moynihan Scholarship

1. The scholarship is endowed by means of a fund provided in 1939 by the family of the late Lord and Lady Moynihan in memory of Isabella Wellesley, Lady Moynihan of Leeds.

2. A scholarship of the approximate value of £60 is awarded every alternate year to a student or graduate of the University who proposes to undertake some approved clinical investigation.

3. Candidates must be graduates of this University, or qualified medical men or women who have been students of the University for not less than three years.

4. Each applicant must submit a detailed statement of the investigation which he proposes to undertake and must state also the department of the University in which he desires to work.

5. Holders of the scholarship will be required to devote the whole of their time to their research unless with the express permission of the professor under whom they are working. On completion of their tenure of the scholarship they will be required to submit a report on their work to the Registrar.

6. The award will be made by the Senate on the recommendation of the Board of the Faculty of Medicine. Applications should be in the hands of the Registrar by 1 May each year.

Fellowships

The Cancer Research Fellowships

1. Funds have been made available through the Yorkshire Council of the British Empire Cancer Campaign for the provision of fellowships for the prosecution of cancer research within the University. Four fellowships—the Henry Oxley, the Elizabeth and Louisa Ward, the J. W. Wootton and the Angus Rhodes—are at present available. They will be tenable for one, two or three years, and may be renewed thereafter for such periods as the Senate may determine.

2. The holders of the fellowships shall work under the direction of the professor of experimental pathology and director of cancer research at such problems in the field of cancer research as he shall determine.

3. The fellows will be required to devote the whole of their time to the prosecution of their researches and to present reports of their work to the Senate unless the results are otherwise published in the form of communications to recognised scientific journals.

4. Fellows appointed for one year must submit a report on their work to the Registrar at the end of that period. Fellows appointed for two years must send an interim report at the end of the first year, and a further report at the end of the second year. Fellows appointed for three years must send interim reports at the end of the first and second years, and a further report at the end of the third year. Similar reports will be required in the event of the renewal of the fellowship. The tenure of the fellowship will be conditional on such reports being satisfactory to the professor of experimental pathology.

5. Appointments to vacant fellowships may be made at any time. Renewals will be made in January or June. Vacancies will be announced as they occur and applications should be lodged with the Registrar.

The Centenary and Hardwick Fellowship

1. The fellowship is endowed by means of the fund collected on the occasion of the centenary of the School of Medicine and by the accumulations of the Hardwick and McGill prize funds.

2. A fellowship of the approximate value of £150 is awarded every alternate year to a student or graduate of the University who proposes to undertake some approved clinical investigation.

3. Candidates must be medically qualified and must have been students of the University for not less than three years.

4. Each applicant must submit a detailed statement of the investigation which he proposes to undertake and must state also the department of the University in which he desires to work.

5. Holders of the fellowship will be required to devote the whole of their time to their research unless with the express permission of the professor under whom they are working. On completion of their tenure of the fellowship they will be required to submit a report on their work to the Registrar.

6. The award will be made by the Senate on the recommendation of the Board of the Faculty of Medicine. Applications should be in the hands of the Registrar by 1 May each year.

The Thorp Fellowship in forensic medicine and public health

1. The annual income of the Thorp fund instituted by the late Dr. Disney L. Thorp, one of the founders of the Leeds School of Medicine, is applied to provide in every alternate year a fellowship of the value of approximately £150 to a student or graduate of the University who proposes to undertake an approved investigation of some subject bearing upon forensic medicine or public health.

2. Candidates must be graduates of the University or qualified medical men or women who have been students of the University for not less than three years.

3. Each applicant must submit a detailed statement of the investigation which he proposes to undertake and must state also the department of the University in which he desires to work.

4. Holders of the fellowship will be required to devote the whole of their time to research unless with the express permission of the professor under whom they are working. On completion of their tenure of the fellowship they will be required to submit a report on their work to the Registrar.

5. The award will be made by the Senate on the recommendation of the Board of the Faculty of Medicine. Applications should be in the hands of the Registrar by 1 May each year.

Prizes

The Birkett Prize

1. The prize, of the value of about £3, is awarded annually after a report from the examiners on the results of the Second Examination for the degrees of Bachelor of Medicine and Bachelor of Surgery to the candidate who is placed *proxime accessit* to the candidate or candidates awarded the Infirmary prize, always provided that he obtains an Honours mark in at least one subject of the examination.

Fattorini Medal and Prize in clinical psychiatry

1. The Fattorini medal and prize were established in 1961, by Mr. J. Fattorini, *M.B.E.*, *T.D.*, J.P., a member of the Leeds Regional Hospital Board.

2. The medal and a prize of £30 are awarded annually on the results of an examination which is normally held in May. Candidates who satisfy the examiners in the written paper will be required to take a clinical and oral examination in addition.

3. No award may be made in any year in which a sufficiently high standard is not attained.

4. Candidates must have taken the whole of the clinical course in Leeds. They must be in the final year or have obtained a medical qualification within the preceding twelve months.

5. Entries for the examination must be submitted to the Dean of the Faculty of Medicine by 15 April each year.

The James and Mabel Gaunt Prize

1. Dr. Maria Lambert Beldon, a graduate of the University who died in 1954, bequeathed the sum of £500 to the University to endow a prize in pædiatrics, to be known as the James and Mabel Gaunt Prize, the prize to be awarded to the best student of the year in pædiatrics.

2. The prize, of the value of approximately £15, will be awarded annually by the Senate on the result of an examination in pædiatrics which will normally be held in May, provided that no award may be made in any year unless a sufficiently high standard is attained.

3. Candidates must be students in the School of Medicine who will be eligible to present themselves for their final (qualifying) examination in the calendar year in which they enter for the prize.

4. The examiners shall be the professor of pædiatrics and child health, the professor of public health and one other person appointed annually by the Board of the Faculty of Medicine.

5. Entries for the examination must be submitted to the Dean of the Faculty of Medicine by 15 April.

The Hardwick Prize in clinical medicine

1. The prize was founded in 1865 with subscriptions raised among friends of the late Dr. Robert George Hardwick, an active member of the Council of the Leeds School of Medicine from 1861 to 1864.

2. The prize, of the value of £10, is awarded annually on the results of an examination which is normally held in May. Candidates who satisfy the examiners in the written paper will be required to take a clinical and oral examination in addition.

3. Candidates must have been students in the School of Medicine of the University of Leeds for not less than eight terms. They must be attending the medical practice of the United Leeds Hospitals and they must have held or be then holding the office of clinical clerk in that institution.

4. Entries for the examination must be submitted to the Dean of the Faculty of Medicine by 15 April.

The Hillman Prize in clinical medicine

1. Under the will of the late Dr. G. B. Hillman the University received in 1932 a legacy of £1,000 for the establishment of a prize to be known as 'The Hillman Prize in Clinical Medicine'.

2. The prize, of the value of approximately £30, will be awarded annually in June for the best dissertation submitted on a medical subject chosen by the candidate.

3. Candidates must normally have taken the whole of the clinical course in Leeds and be in the final year or have obtained a medical qualification within the preceding twelve months.

4. The dissertation should be illustrated by case notes. The candidate need not confine himself to cases which were assigned to him during his period of clerkship or under his care as house physician but the notes must be written by the candidate himself and record his personal observations. The notes should include details of the patient's progress in hospital and after discharge from hospital. The dissertation, which should be in typescript, must not normally exceed a total of 5,000 words and should be submitted to the Dean of the Faculty of Medicine by 15 April.

The Jamieson Medal and Prize in practical anatomy

1. In 1949 Dr. John G. Jamieson and Miss Barbara Jamieson presented to the University the sum of £100, to which was added the sum of approximately £750 subscribed by friends, to provide a medal in memory of Professor J. Kay Jamieson, professor of anatomy in the University of Leeds from 1910 to 1936.

2. The medal will be awarded by the Senate annually in June on the recommendation of the professor of anatomy, to the student with the best record in practical anatomy during the period spent in preparation for the second examination for the degrees of Bachelor of Medicine and Bachelor of Surgery.

3. In addition the student to whom the medal is awarded will receive a prize of approximately £15.

The Littlewood Prize in anatomy

1. The late Colonel H. Littlewood, formerly professor of surgery in the University, bequeathed a legacy of £1,000 to be applied for providing a prize in the Department of Anatomy every year or in alternate years.

2. This prize will be awarded on the result of the examination in anatomy for the second examination for the degrees of Bachelor of Medicine and Bachelor of Surgery in June each year, provided that the candidates have attended the full course of anatomy in the University, and that students for other qualifications who have attended the full course be permitted to compete for the prize.

The McGill Prize in surgery

1. A sum of approximately £315 collected as a memorial to Professor A. F. McGill was accepted by the Yorkshire College in 1892 and applied as part of the medical school building fund. At the same time it was decided to set aside a sum of £10 annually for the award of McGill prizes.
2. The prize is awarded annually by the Senate in June, after a report from the examiners of the final M.B., Ch.B., examination in surgery.
3. Candidates must be students in the School of Medicine of the University of Leeds in their final year. Entries from those who are not candidates for the final M.B., Ch.B. examination must be submitted to the Dean of the Faculty of Medicine by 15 April.

The Pearce Prize in neurophysiology

1. The prize was instituted in 1966 for the encouragement of the study of neurophysiology by a gift made to the Department of Physiology by Dr. Pearce of the City of Leeds. The prize is of the value of approximately £10 and will be used for the purchase of books.
2. The prize will be awarded by the Senate on the recommendation of the head of the Department of Physiology for the best performance in the neurophysiological part of the 2nd M.B., Ch.B. examinations held in June. An oral examination may also be held.
3. The prize will not be awarded unless a sufficient standard has been reached.

The Scattergood Prize in obstetrics and gynaecology

1. The prize was instituted in memory of Thomas Scattergood, M.R.C.S., the first Dean of the medical department in the Yorkshire College.
2. The value of the prize, which consists of books or instruments, is £5.
3. The prize is awarded annually on the results of an examination which is normally held in May. Candidates who satisfy the examiners in the written paper will be required to take a clinical and oral examination in addition.
4. Candidates must be students in the School of Medicine of the University of Leeds in their final year. Entries for the examination must be submitted to the Dean of the Faculty of Medicine by 15 April.

The Tomlin Prize in ophthalmology

1. Mrs. A. Tomlin in 1960 presented a sum of £100 to the University to endow a prize in ophthalmology in memory of Herbert Tomlin, M.D., a graduate of the University.
2. The prize, of the value of approximately £4.25 will be awarded annually by the Senate on the recommendation of the Board of the Faculty of Medicine on the result of an examination, which will usually be held in May. Candidates who satisfy the examiners in the written paper will be required to take a clinical and oral examination in addition, provided that no award may be made in any year unless a sufficiently high standard is attained.
3. Candidates must be students of the School of Medicine of the University of Leeds, in their final year. Entries for the examination must be submitted to the Dean of the Faculty of Medicine by 15 April.

The Waddington Prize in anatomy

1. The prize was instituted in 1944 by the relatives of George and Guy Waddington who had bequeathed their bodies for dissection in the Department of Anatomy. It will be awarded annually and will take the form of books awarded to that student of the junior anatomy class who in the opinion of the professor of anatomy has shown most promise in his studies.

The Edward Ward Memorial Prize in surgical anatomy

1. The Edward Ward memorial prize in surgical anatomy of the value of approximately £3.50 is awarded annually on a competition held under the following conditions.

2. The examiners for the prize will be the heads of the Departments of Anatomy and Surgery, and one other member of the University staff to be appointed by the Board of the Faculty of Medicine.

3. The examinations will be held in May in the week preceding the final examination for the degrees of Bachelor of Medicine and Bachelor of Surgery and will consist of a written paper, a *viva voce* examination on the living subject and dissections.

4. Students are eligible irrespective of the qualifications for which they are working, and must be in their final year but due allowance will be made for those whose course has been extended by extra courses for the degree of Bachelor of Science or for some other reason satisfactory to the Board of the Faculty.

West Riding Panel Practitioners' Prize

1. The prize of the value of £25 is awarded annually on the result, in medicine only, of the final examinations for the degrees of Bachelor of Medicine and Bachelor of Surgery in June and December of the same year, provided that students who are working for other qualifications and are otherwise eligible be allowed to compete, and provided that the candidate obtaining the highest number of marks is deemed by the examiners to have attained a standard worthy of the award. Candidates must have received their clinical training wholly in the Leeds General Infirmary and will not be eligible to compete after three years from the date of passing the second examination for the degrees of Bachelor of Medicine and Bachelor of Surgery or its equivalent, excluding time occupied in working for a final examination for the degree of Bachelor of Science.

Medals

The William Hey Medal

1. The late Lord Moynihan presented to the University the sum of £200 for investment to provide a medal for the most distinguished graduate with honours in the list of Bachelors of Medicine and Bachelors of Surgery of the calendar year.

2. The award will be made by the examination committee in June on the results of the Final Examination for the degrees of Bachelor of Medicine and Bachelor of Surgery and on a consideration of the student's general standing, record and character. Results of previous examinations [the second, third and fourth examinations for the degrees] will also be taken into consideration and the successful student must have displayed qualities of such an order as to entitle him to special distinction.

3. If two candidates show special merit and the funds of the trust allow, the examiners may recommend a double award.

The Medical Library

The medical library is under the direction of the medical library sub-committee of the University library committee. This sub-committee is composed of representatives of the University library committee, of the Board of the Faculty of Medicine, and of the Medico-Chirurgical Society. Under the ensuing regulations, matters referred to the library committee are brought in the first instance before the medical library sub-committee. This sub-committee also supervises the library of the School of Dentistry, regulations for which are given in the prospectus of the School of Dentistry.

The library contains 52,000 books and pamphlets. The valuable collection of the Leeds and West Riding Medico-Chirurgical Society, which had long been housed in the School of Medicine, was presented to the University in 1926 and the Society continues to make an annual contribution towards the maintenance of the library. The early section is rich in medical classics, which come mainly from the library of the old Infirmary, presented to the School of Medicine in 1865. A prominent feature of the library is the extensive collection of periodicals.

Regulations

1. *Hours of opening*

From October to June inclusive the library is open from 9 a.m. to 9 p.m. on Monday to Thursday, from 9 a.m. to 5 p.m. on Friday, and from 9 a.m. to 1 p.m. on Saturday. During the long vacation it is open from 9 a.m. to 5 p.m. on Monday to Friday and from 9 a.m. to 12.30 p.m. on Saturday.

It is normally closed on those days when the University is closed, except for Spring Bank Holiday, Monday and Tuesday.

2. *Admission*

Members of the academic staff of the University, members of the medical and dental staff of the United Leeds Hospitals, members of the Leeds and West Riding Medico-Chirurgical Society and students of the School of Medicine and School of Dentistry are entitled to the use of the library subject to the following conditions:

(a) Full members of the Medico-Chirurgical Society are subject to the same regulations as members of the academic staff; temporary members are subject to the same regulations as students.

(b) Students other than those attending the School of Medicine or the School of Dentistry may be allowed to use the library only on production of a written recommendation from the head of the appropriate department and with the permission of the Librarian.

(c) Other persons may be allowed by the Librarian to consult books on stating the subject of their studies and on producing a satisfactory recommendation. In special cases and on payment of £1 for twelve months they may also be allowed to borrow books at the discretion of the Librarian.

3. *Discipline*

(a) Silence shall be observed in the library.

(b) No smoking shall be permitted within the library.

(c) No bag, attaché case or parcel shall be brought into the library.

(d) No reader shall write in or otherwise mark books or periodicals belonging to the library. Any damage to or loss of books shall be made good to the satisfaction of the Librarian.

(e) The Librarian has the power to suspend the library privileges of any person who infringes the regulations, and shall report any such suspension to the library committee.

4. *Borrowing in general*

(a) No book shall be removed from the library unless the borrower shall have first filled in the form provided. The form will be returned to the borrower as a receipt for the book returned, and the borrower shall be responsible for the book so long as the form remains in the library uncancelled.

(b) All books may normally be borrowed with the exception of works of reference and books of special value and rarity; but the Librarian may withhold or restrict the circulation of any book in the library. He is further permitted to grant special facilities during a limited period to any person entitled to the use of the library.

(c) Periodicals, other than the current volume [for which see Regulation 4(d)], may be borrowed for a period of one week only. There will ordinarily be no renewal. A fine of 5p will be incurred for every day or part of a day for which a periodical is overdue.

(d) Reference books, volumes on the recent accessions shelves and the current numbers of periodicals may be borrowed only after 4 p.m. (12 noon on Saturday) and must be returned before 10 a.m. on the next day on which the library is open. Unbound numbers of periodicals, other than the current number, may be borrowed, after having been received by the library for not less than one calendar month, for a period of up to three days. Failure to comply with these conditions will incur a fine of 5p, for each day or portion of a day for which a book is retained.

(e) No person shall borrow a book from the library if he has in his possession any book which he has kept beyond the time allowed by the regulations, or if any fine or charge which he has incurred has not been paid.

(f) Theses of the University, with certain exceptions may, with the consent of the Librarian, be borrowed or consulted.

(g) Books may not be taken abroad without the special permission of the Librarian.

5. *Borrowing by staff and research students*

(a) Members of the academic staff shall be entitled to have at one time not more than twenty-five books borrowed from the library, unless this number is increased by the special permission of the Librarian. Books may be retained until a notice is received from the Librarian that they are overdue, in which case they shall be returned to the library without delay. A book shall be regarded as overdue when it has been in the possession of the borrower for a fortnight and is required by another reader.

(b) Postgraduate research students and students in the final year of an honours school shall have the same privileges and be subject to the same regulations as members of the academic staff except that they may not have at one time more than ten books in their possession.

(c) Professors, readers and heads of departments may obtain library keys for personal use only on application to the Librarian.

6. *Borrowing by students*

(a) Students shall have the right to have not more than three books borrowed from the library at one time except that this number may be increased by the Librarian on a recommendation from the head of a department.

(b) Every book shall be returned to the library on or before the fourteenth day following that on which it was taken out. If application is made personally or by post before the end of the period a book may be renewed for a further fortnight unless it is required by another reader.

(c) Failure to comply with the above condition shall entail a fine of $2\frac{1}{2}$p, in respect of each day or portion of a day for which the return of a book is overdue.

7. *Annual inspection*

All books must be returned for the annual inspection ordinarily held during the penultimate week of the second term. The issue of books will be suspended during the inspection. Failure to return books under this rule shall involve a fine of 2½p, in respect of each day or portion of a day for which the return of a book is overdue.

8. *Inter-library loans*

Books borrowed from other libraries are subject in each case to the conditions imposed by the lending library. If books are required for home reading this fact must be stated in the application.

Fees

Regulations

The University reserves the right to revise the fees specified below at any time, whether in the case of new students or those who have already begun their courses.

Any student attending a degree course, or any other course which is regarded as a full course, will be required to pay the fee appropriate to the Faculty in which he is a student.

A student ceasing, for any reason whatsoever, to attend at the University during the session has no claim to a return of fees.

On presentation of a card signed by the Dean of the Faculty authorising attendance upon courses of study, and upon payment of the requisite fees, the Bursar will issue a registration certificate entitling the student to attend such courses. This certificate must be presented by the student on request, to the professors or lecturers whose classes or lectures he is authorised to attend.

Fees should be paid in the fees section of the Bursar's office in the University, and must be paid sessionally in advance.

Cheques should be made payable to 'The University of Leeds'.

Assessment of Fees

Students who hold an award from a Local Education Authority or who satisfy the requirements for residence will be charged fees at the Home rate under scale I.

Students who do not hold an award from a Local Education Authority and who do not satisfy the requirements for residence will be charged fees under scale II.

Students who do not hold an award from a Local Education Authority and who do not satisfy the requirements for residence but who were following their course on 30 April, 1967 will be charged fees under scale III. The concession to full-time students who changed their course or university after 30th April 1967 of paying fees under scale III has now come to an end and such students will be charged fees under scale II from session 1971-72.

Residence Requirements

It is necessary for one of the following requirements to be satisfied before Home status can be granted.

(i) The student to have been ordinarily resident in the United Kingdom for at least three years immediately preceding the beginning of the academic year commencing 1 September in which the course was due to begin.

(ii) The parents of the student, or one of them, to have been ordinarily resident in the United Kingdom for at least three years immediately preceding the beginning of the academic year commencing 1 September in which the course was due to begin.

(iii) The student to have been living with his parents or one of them who have been temporarily employed outside the United Kingdom for at least three years immediately preceding the beginning of the academic year commencing 1 September in which the course was due to begin.

(iv) The student to have been temporarily employed outside the United Kingdom for at least three years immediately preceding the beginning of the academic year commencing 1 September in which the course was due to begin.

(v) The student to be under 21 and both the student and his parents or one of them to have been ordinarily resident in the United Kingdom for at least one year immediately preceding the beginning of the academic year commencing 1 September in which the course was due to begin.

(vi) The student to have been:
(a) Ordinarily resident or on a full time or sandwich course of higher education for one year immediately preceding the beginning of the academic year commencing 1 September in which the course was due to begin AND
(b) Married to a person who has been ordinarily resident in the United Kingdom for at least three years immediately preceding the beginning of the academic year commencing 1 September in which the course was due to begin.

The term 'ordinarily resident' includes periods spent at school following 'O' and 'A' level courses and Ordinary National Diploma courses but excludes University and Higher National Diploma courses.

Inclusive Academic Fee (including Union Fee)

On payment of the fee a student is entitled to attend the prescribed course of lectures, to take the appropriate examinations and, if successful, to be awarded the appropriate degree or diploma.

	I	II	III
MEDICAL COURSE			
Fee, per session	£89.50	£259.50	£139.50
CLINICAL COURSE			
For students exempted from the First and Second M.B., Ch.B., courses who require the clinical course only, per session	£89.50	£259.50	£139.50
Diploma in Psychological Medicine*†			
Course for part 1	£40.00	£160.00	£70.00
Course for part 2	£40.00	£160.00	£70.00
Certificate in Psychiatric Social Work*	£82.50	£252.50	£132.50
Diploma in Public Health*	£114.50	£264.50	£164.50
Health Visitors' Training Course*	£204.00	£264.50	£254.00

Croft Hall (Maternity Clerks) Fee

All students, whether taking the course for the Leeds M.B., Ch.B., or for an external degree or diploma, are required to go into residence at Croft Hall for a period of approximately sixteen weeks, normally during the second clinical year of the medical course.

A fee of £73 for a single room or £67 for a shared room is charged payable in full on taking up residence in Croft Hall. £18 per year for the first four years of the medical course or £25 per year for the three-year clinical course may be paid in respect of this fee in addition to the annual inclusive academic fee. On coming into residence in Croft Hall the amount thus paid on account will be adjusted to the amount due either by a further payment by the student (which shall be immediately due and payable) or by a refund of the excess paid by the student.

Apparatus Fees and Deposits, &c.

At the beginning of the first year students working in the chemistry laboratories will pay a deposit of £6 to cover the cost of replacing broken apparatus, etc. The deposit will be paid at the same time as the inclusive academic fee and will be refunded at the end of the session after deduction of cost of breakages. When a student's breakages exceed £6 a further deposit will be payable.

*The fees for these courses include the examination fees, but re-examination fees will still be payable.
†The fee for this course excludes membership of the Union.

At the beginning of the second year students will pay a deposit of 50p to the Department of Physiology and a deposit of £6.50 to the Department of Biochemistry. These deposits will be paid at the same time as the inclusive academic fee, and will be refunded at the end of the courses in physiology and biochemistry after deduction of cost of breakages.
In the Department of Pathology, a deposit of £1.50 is payable for the loan of a set of microslides.

While on the clinical course students will be supplied with white coats on hire for which no charge will be made, but in the event of a hired coat being lost or damaged a charge will be payable.

Locker Fees

Lockers, in which to keep personal belongings, are provided on payment of a deposit of £2, normally charged with the second inclusive academic fee.

At the end of the course, the deposit, less charges for annual rent (25p), loss of keys, etc., will be refunded on return of the locker key.

Fees for Recapitulatory Courses

If additional courses are rendered necessary through failure in examination or unsatisfactory attendance, fees at the following rates will be charged:

	£
Anatomy and physiology (3 months)	10
" " " (6 ")	20
Anatomy (3 months)	6
Physiology (3 months)	6
Pharmacology (3 months)	4
Pathology and bacteriology (3 months)	4
Other subjects (3 months)	4
Additional clinical fee for each extension period of 6 months or part of 6 months	25

Fees for Other Courses

ANATOMY	£
Use of dissecting room (external students)	
one month	4
three months	10

Students of the Leeds Medical School who have taken the full clinical course and have registered as medical practitioners become *ipso facto* perpetual students of the Infirmary without further charge. This privilege will admit to the ordinary clinical instruction of the Infirmary, but will not cover attendance at any special postgraduate course for which fees may be charged.

Practitioners and external students, wishing to attend the Infirmary practice during short periods, and not requiring signatures or certificates of any kind, or to hold any hospital appointment, may do so on payment of the following fees:

	£
For 2 months	6
For 3 months	9
For 4 months	12
For 6 months	18

Fees for Higher Degrees

	£
Degree of Mastery of Surgery	50
Degree of Doctor of Medicine	50

Re-Examination Fees

	For each subject repeated (*Maximum* £8)
	£
Degrees of Bachelor of Medicine and Bachelor of Surgery	
First examination	2
Second examination	3
Third examination (single fee)	6
Fourth examination (single fee)	3
Final examination	4

	For subsequent examination
	£
Diploma in public health	12.00
Diploma in psychological medicine	
Part I	6.30
Part II	12.60
Certificate in psychiatric social work	5.00
Health Visitor's Certificate	8.00

The latest dates for payment of examination fees are

For December, on 26th October, 1971
For March, on 26th January, 1972
For June, on 26th April, 1972
For September, on 26th July, 1972

THE UNIVERSITY OF LEEDS

School of Dentistry
1971-72

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Almanac

SESSION 1971-72

1ST TERM Wednesday, 6 October
Friday, 17 December

2ND TERM Thursday, 13 January
Wednesday, 22 March

3RD TERM Thursday, 20 April
Wednesday, 28 June

SESSION 1972-73

1ST TERM Wednesday, 4 October
Friday, 15 December

2ND TERM Thursday, 11 January
Wednesday, 21 March

3RD TERM Thursday, 26 April
Wednesday, 4 July

The staff of the School of Dentistry is listed as at the date of publication

Letters should be addressed to:

The Head of the Dental School and Hospital,
Blundell Street,
Leeds, LS1 3EU.

General Information

DENTISTRY AS A CAREER

Dentistry is a profession which by law may only be carried out by those who are properly qualified to do so. To practise as a dentist, a man or woman must possess a qualification which is recognised by the General Dental Council for inclusion in the Dentists Register. The University of Leeds offers an undergraduate a course of study for the degree of Bachelor of Dental Surgery. After the degree has been conferred and registered, the graduate in dental surgery is fitted to carry out without supervision the practice of dentistry in any of the several fields which are open to him. Everyone is entitled to dental treatment under the National Health Service Acts and there is a continuous demand for men and women with dental qualifications.

THE SCHOOL OF DENTISTRY

As a result of the efforts and enthusiasm of some twelve local dental practitioners, the Dental School and Hospital was founded in 1905 and was accepted as part of the Faculty of Medicine in the University in the following year. The present building, situated close by the Medical School and the General Infirmary, was opened in 1928 and extended in 1951 and 1965.

In 1947, aided by the generosity of the Nuffield Trust, the Biological Research Unit of the Dental School was founded. The unit has made an important contribution to knowledge in the basic sciences affecting dentistry.

Plans are well advanced for a new Medical Centre, which will include new Medical and Dental Schools and a Teaching Hospital.

At present, the School provides for an annual entry of 40 undergraduate students; this number will be increased to 60 with the advent of the new School.

THE UNDERGRADUATE COURSE

The course of study offered to undergraduate students is that leading to the degree of Bachelor of Dental Surgery (B.Ch.D.). As members of the University, dental students receive not just a training in the method of carrying out their future work but a complete university education in its widest sense. Throughout the course the strong links with the basic medical sciences and with medicine and surgery are emphasised so that, after receiving his degree, the new dental graduate is ready to take his place as a key member of the health service alongside physicians and surgeons.

The course is available to men and women on the same terms and all students must have reached the age of seventeen before being admitted to the University.

In all cases, students are urged to consult their headmasters or headmistresses before applying; premature entry on a university course is to be deprecated and power is retained to refuse admission on grounds of immaturity even in the case of those who have passed the entrance examinations.

ENTRANCE QUALIFICATIONS

All applicants for admission to the Dental School must provide evidence that they have or will have satisfied the requirements of the Joint Matriculation Board of the Northern Universities. Particulars of these requirements may be obtained from the Secretary of the Board, Manchester, M15 6EU.

In addition to these general requirements (matriculation), successful applicants must also satisfy the following course requirements.

(a) *Four and a half year course*

Students are normally expected to enter the second year of the course for the B.Ch.D. degree, having obtained exemption from the first (pre-dental) year of the course by passing three approved subjects at advanced level in the G.C.E. examinations. These approved subjects are chemistry and two of the following: physics, mathematics and zoology (or biology). Candidates who do not take zoology or biology at 'A' level will be at an advantage in gaining admission if they have some knowledge of biology up to 'O' level standard.

(b) *Five and a half year course*

Candidates who, before entering the University, did not choose or who were not able to take three of the subjects which would satisfy the entrance requirements to the four and a half year course will be considered for entry to the first year of the course for the B.Ch.D. degree.

Candidates who are taking or who have passed 'A' level examinations in Arts subjects or a combination of Arts and Science subjects are welcome to apply.

OVERSEAS STUDENTS

In addition to satisfying the general and the course requirements, applicants from overseas countries whose native language is not English must provide evidence that they have a sufficient knowledge of both written and spoken English in accordance with University regulations.

APPLICATIONS

Applications for admission to the B.Ch.D. course must be made through the Universities Central Council on Admissions (U.C.C.A.). Full details of the admissions procedure are given in the handbook *How to Apply for Admission to a University* which is available in most schools or may be obtained direct from the Secretary of the U.C.C.A., G.P.O. Box 28, Cheltenham, Gloucestershire, GL50 1HY (price 15p within the U.K., 25p within the rest of Europe, 45p outside Europe).

REGISTRATION

All new undergraduates are required to register at the beginning of the session. Before this first registration, all students must sign a declaration that they will observe the statutes, ordinances and regulations of the University for the time being in force. Ordinances and regulations governing the award of degrees may be revised from time to time. Students who have started a course will either continue it under the old provisions or be given the opportunity of changing to the new provisions.

The Head of the Dental School will be present at the first registration to advise students on their course of study, and all students must obtain approval of the courses which they wish to pursue.

Students will then be registered as students of the University provided that they pay the proper fees or offer evidence that they are holders of an award which includes payment of fees. Except with the special permission of the Vice-Chancellor, students may not attend any lecture or laboratory or other class until they have received a registration certificate which must be presented on request to the head of the department concerned before beginning any course of study.

UNDERGRADUATE SCHEME OF STUDY

The full dental curriculum is divided into three periods: the pre-dental, the pre-clinical and the clinical. Students accepted to the first (pre-dental) year attend courses in chemistry, physics, mathematics and zoology in the appropriate departments of the University.

The subjects studied in the second (pre-clinical) year are general anatomy, physiology and biochemistry, courses in these subjects being held in the School of Medicine. Courses taken this year in the Dental School are dental anatomy and physiology and the introductory course in dental mechanics and tooth morphology.

The clinical course begins in the third year and extends over three years and two terms. The knowledge gained in the pre-clinical year acts as a foundation for the clinical subjects and a biological background is maintained throughout the full period of study. At the beginning of the first clinical year students attend courses in dental mechanics and prosthetics and the properties of dental materials. Integrated with this course is that in the chemistry and physics of dental materials which is held in the chemistry, metallurgy and ceramics departments of the University. A course in operative technique and an introductory orientation course in dental surgery ensures a balanced approach to the work performed in the clinical departments of the Dental Hospital. Students' dresserships are arranged to give increasing practice and responsibility in treating patients in the following clinical departments of the Dental Hospital:

(a) *Conservative Dentistry*, a branch of dentistry concerned with the preservation and restoration of the natural teeth by fillings, inlays and crowns and the replacement of teeth by bridges.

(b) *Periodontology*, which deals with the maintenance of healthy supporting structures of the teeth and the treatment of diseases of those tissues.

(c) *Children's and Preventive Dentistry*, which is concerned with the prevention of dental disease and the restoration of decayed and accidentally damaged teeth of both the temporary and permanent dentitions which, in children, are particularly susceptible to disease and damage.

(d) *Orthodontics*, the study of the relation of the teeth and the jaws resulting from their growth and development together with the correction of abnormalities and irregularities of the jaws and dentition.

(e) *Oral Surgery*, which concerns the clinical application of sterilisation procedures, local and general anaesthesia, the removal of teeth, the treatment of pathological conditions affecting the oral tissues and of maxillo-facial injuries, etc.

(f) *Prosthetic Dentistry*, which deals with the methods of replacing natural teeth with artificial substitutes.

(g) In the *Admissions clinic* students apply their knowledge of *Oral Pathology and Bacteriology* and gain experience of the various methods used in the *Diagnosis* of dental disease and abnormalities (including the use of X-rays) and in *Treatment Planning*.

In addition to the above, courses are given in oral physiology, the law and ethics of dental practice, general dental practice and public dentistry.

Concurrently with the teaching in dental subjects, students attend courses in general pathology and bacteriology, pharmacology and therapeutics and medicine and surgery which are held in the School of Medicine, the General Infirmary at Leeds and Leeds (St. James's) University Hospital.

DENTAL STUDENTS' SOCIETY

All dental students are encouraged to join the Society, which is officially recognised by the Union and whose honorary officers include a Staff President, a Student President and a staff representative on its Committee. A full programme of meetings throughout the year is arranged comprising talks on dental and general topics, social functions, expeditions and sports meetings.

The Society publishes the *Leeds Dental Journal* which is issued three times each year and which has an international circulation; students receive the journal at a reduced subscription.

STAFF TUTORS

Every dental student, at the time he enters the University, is allocated to a tutor—a member of the academic staff—with whom he can discuss at any time his well-being and welfare and his general academic progress. The staff tutors arrange to see their allocated students at intervals throughout each year of the course but they are also available for advice at any time. Students may also approach the Head of the Dental School at any time for advice on any matter.

UNIVERSITY PROSPECTUS

The prospectus *General Information* gives an account of the history of the University and present developments together with full details concerning residential accommodation, the Students' Union, recreational facilities, the city of Leeds and its surrounding region. It is obtainable on request from the Deputy Registrar, the University, Leeds, LS2 9JT.

Postgraduate Dental Education

The School of Dentistry provides postgraduate refresher courses for general dental practitioners. Such courses are advertised in the professional journals and include oral surgery, general anaesthesia, diagnosis, crown and bridge restorations, endodontics, children's dentistry, orthodontics, periodontology, prosthetic dentistry and therapeutics.

Temporary junior appointments on the staff of the Dental School are available and are suitable for those wishing to carry out research in clinical and non-clinical fields of study. In addition, research assistants who may possess a medical, dental or science degree are appointed to the Biological Research Unit.

The associated dental hospital has an establishment of eight house surgeons, three registrars and one senior registrar covering all branches of dentistry, appointments which are suitable for those wishing to proceed to higher diplomas. Facilities for study can be provided in the various departments of the School of Medicine. The house surgeon appointments are tenable for six-month periods and are renewable: students who have newly graduated are encouraged to apply for these appointments.

The School also offers a full-time course in Dental Public Health extending over three academic terms commencing each year in October. The course is specifically designed for dentists who wish to sit the examination for the Diploma in Dental Public Health of the Royal College of Surgeons; instruction is given in the Dental School, the Department of Preventive Medicine and Public Health and the Nuffield Centre for Health Services Studies.

Prescribed Scheme of Study for Undergraduate Students

THE PRE-DENTAL YEAR

	Lectures and Laboratory Courses	*Examinations*
FIRST YEAR First, second and third terms	Physics, chemistry, mathematics and zoology	FIRST EXAMINATION (June and September)

THE PRE-CLINICAL YEAR

SECOND YEAR First, second and third terms	Anatomy, histology, physiology, biochemistry, dental anatomy and physiology, dental histology, introduction to dental mechanics and tooth morphology	*SECOND EXAMINATION Parts 1 and 2 (June and September)

*The period of clinical study begins on the completion of the Second Examination, Part 1.

THE CLINICAL PERIOD

	Lectures, Laboratory and Clinical Courses	*Examinations*
THIRD YEAR First term	Dental mechanics and the properties of dental materials, chemistry and physics of dental materials, dental prosthetics, dental laboratory	
Second term	Dental mechanics and the properties of dental materials, chemistry and physics of dental materials, dental laboratory, clinical dental prosthetics and dental hospital practice	
Third term	Dental mechanics and the properties of dental materials, chemistry and physics of dental materials, dental laboratory, clinical dental prosthetics and dental hospital practice	SECOND EXAMINATION Parts 3 and 4 (June and September)
FOURTH YEAR First term	Pathology and bacteriology, operative technique, clinical dental surgery, introduction and orientation, dental hospital practice	
Second term	Pathology and bacteriology, post-mortem clerkship, conservative dentistry, periodontology, children's dentistry, clinical dental surgery, dental hospital practice	
Third term	Pathology and bacteriology, post-mortem clerkship, medicine, surgery, physical principles of radiology and radiological protection, radiology, conservative dentistry, periodontology, orthodontics, oral surgery, oral pathology, clinical dental surgery, dental hospital practice	THIRD EXAMINATION Part 1 (June and September)

FIFTH YEAR		
First term	Clinical medicine, clinical surgery, pharmacology and therapeutics, anaesthetics, conservative dentistry, clinical dental radiology, periodontology, children's and preventive dentistry, orthodontics, clinical dental surgery, dental hospital practice	THIRD EXAMINATION Part 3 (December and June)
Second term	Pharmacology and therapeutics, advanced operative technique, law and ethics of dental practice, public dentistry, applied anatomy, clinical dental surgery, dental hospital practice	THIRD EXAMINATION Part 2 (March and September)
Third term	Conservative dentistry, general dental practice, oral diagnosis and treatment planning, clinical dental surgery, dental hospital practice	
SIXTH YEAR		
First and second terms	Oral surgery, oral pathology and bacteriology, oral medicine, oral physiology, venereology, oral diagnosis and treatment planning, clinical dental surgery, dental hospital practice	FINAL B.Ch.D. EXAMINATION (March and September)

OPERATING GOWNS

All students, when working in the clinical departments of the Dental School and Hospital, are required to wear the approved type of operating gown. The name and address of official suppliers is published on official notice boards.

Regulations Concerning Examinations

1. *Matriculation examinations*

Examinations for matriculation are conducted by the Joint Matriculation Board of the Universities of Manchester, Liverpool, Leeds, Sheffield and Birmingham.
Correspondence should be addressed to the Secretary, The Joint Matriculation Board, Manchester, M15 6EU, from whom full particulars may be obtained.

2. *Departmental examinations*

Departmental examinations may be held at times and on conditions determined by the heads of the departments concerned.

All students reading for degrees are required to present themselves for the departmental examinations in their subjects of study. Students who fail in these examinations may be required to repeat their courses of study.

3. *Degree examinations*

The examinations will be held in December, March and June each year and supplementary examinations will be held in June and September. The conditions under which candidates may be accepted for supplementary examinations are defined in the ordinances and regulations governing degrees.

Candidates will be required to present themselves at the appropriate time for the examination in each subject in which they have completed the course of study unless they have obtained the permission of the Board of the Faculty concerned to defer the examination.

4. *Admission to examinations*

All students are required to apply for admission to examinations and to pay any appropriate fees for re-examination.

Applications for admission to examinations must, in all cases, be made to the Administrative Officer in the Dental School on the appropriate form. Applications for examination in any subject will be accepted only from students who have regularly attended the prescribed courses of study and performed the work of the classes to the satisfaction of the Head of the Dental School and provided they are received before the last dates of entry for the examinations concerned. (See page I 21.)

5. *Conduct of examinations*

Candidates who apply for admission to degree examinations must ascertain the time and place of each examination they are taking: details of the times are published on the Dental School notice board.

Candidates should consult the lists posted on the doors of the examination rooms in order to ascertain the numbers of their places.

Results of examinations will be published as soon as possible after they have been approved by the Senate.

Congregations for the conferment of degrees will be held in March and September.

Ordinance VII

DEGREES IN DENTAL SURGERY

1. The degrees in dental surgery shall be:
Bachelor of Dental Surgery (B.Ch.D.)
Master of Dental Science (M.D.Sc.)
*Master of Philosophy (M.Phil.)
†Doctor of Philosophy (Ph.D.)
Doctor of Dental Science (D.D.Sc.)

THE DEGREE OF BACHELOR OF DENTAL SURGERY

2. All candidates for the degree of Bachelor of Dental Surgery are required to present certificates showing that they will have attained the age of twenty-one years on the day of graduation, and that they have attended courses of instruction approved by the University extending over not less than five years, two of such years at least having been passed in the University subsequent to the date of passing or being exempted from the first examination, and to have completed such periods of hospital attendance as may be prescribed by the regulations of the University.

3. Before entering upon courses for the degree of Bachelor of Dental Surgery, candidates must have satisfied the requirements for entry upon a degree course as laid down by the Joint Matriculation Board of the Universities of Manchester, Liverpool, Leeds, Sheffield and Birmingham.

4. To qualify for the degree of Bachelor of Dental Surgery, candidates must satisfy the examiners in the first, second, third and final examinations.

5. Before presenting themselves for any of the examinations candidates are required to furnish evidence of having attended courses of instruction in accordance with the regulations of the University.

6. The subjects approved for the first examination are:
Chemistry
Physics
Mathematics
Zoology.

Of these, candidates must take chemistry and two of the remaining subjects chosen with the approval of the Head of the Dental School.

7. The second examination shall consist of four parts:
Part 1 Anatomy, physiology
Part 2 Dental anatomy and physiology
Part 3 Dental mechanics and the properties of dental materials
Part 4 Chemistry and physics of dental materials.

8. Before presenting themselves for the second examination candidates must have passed or been exempted from the first examination.

9. The third examination shall consist of three parts:
Part 1 General pathology and bacteriology
Part 2 Pharmacology and therapeutics
Part 3 Medicine, surgery.

10. Candidates, before presenting themselves for the third examination, must have passed the second examination.

*The degree of Master of Philosophy is governed by Ordinance VIII, articles 10 to 20, and relevant regulations which are published in the University *Calendar*.

†The degree of Doctor of Philosophy is governed by Ordinance VIII, articles 21 to 28, and relevant regulations which are published in the University *Calendar*.

11. The final examination shall be in dental surgery including conservative dentistry, children's dentistry and orthodontics, oral surgery, oral medicine and oral pathology, periodontology and prosthetic dentistry.

12. Before presenting themselves for the final examination candidates must have passed the third examination.

13. Distinction may be awarded in the second examination in parts 2, 3 and 4 and in the individual subjects of part 1; in the third examination in parts 1 and 2 and in the individual subjects of part 3; and in the subject of the final examination.

14. Candidates who have satisfied the examiners in the subject of the final examination may be awarded
(a) the degree of Bachelor of Dental Surgery with honours
(b) the degree of Bachelor of Dental Surgery.

15. The names of successful candidates in all examinations except the final examination and in each group of the final examination shall be published in alphabetical order.

THE DEGREE OF MASTER OF DENTAL SCIENCE

16. The degree of Master of Dental Science (M.D.Sc.) may be conferred on payment of the proper fee and on satisfactory completion of an approved scheme of advanced study in the University and on the passing of the prescribed examinations:
(a) upon graduates in dental surgery of the University of Leeds or of any approved university;
(b) in approved cases upon persons who possess a diploma in dental surgery of the University of Leeds or of an approved dental authority.

17. The scheme of study leading to the degree of Master of Dental Science may vary in length according to the qualifications of the individual candidate and whether a course of full-time or part-time study is being undertaken but in no case shall the period of full-time study be less than one calendar year.

18. Candidates who are accepted for a course of part-time study leading to the degree will be required to undertake an approved scheme of study in excess of one calendar year's duration as may be determined in each case.

THE DEGREE OF DOCTOR OF DENTAL SCIENCE

19. The degree of Doctor of Dental Science (D.D.Sc.) may be conferred on Bachelors of Dental Surgery of not less than five years' standing of the University of Leeds or of approved universities, subject to the conditions laid down in the following articles:

20. Each candidate will be required to present a thesis. This should embody the results of personal observations or original research either on a topic in dental surgery or in a science directly related thereto. Original published work may be included in a thesis especially written for the degree. The thesis must make a contribution to knowledge and must afford evidence of originality either by the discovery of new facts or in the critical approach to facts already known. The literary presentation of the thesis must be satisfactory. Each candidate will be required to present himself for an oral examination.

21. The names of candidates who have been approved for the degree of Doctor of Dental Science shall be published in alphabetical order; in cases of exceptional merit the degree may, on the recommendation of the examiners, be awarded with distinction.

Regulations

THE DEGREE OF BACHELOR OF DENTAL SURGERY

1. The scheme of study leading to the degree of Bachelor of Dental Surgery may extend over five and a half years but suitably qualified candidates may be exempted from the first year and be able to complete the course in four and a half years.

Candidates should note that in order to qualify for admission to a scheme of study for a first degree in the University, they must satisfy both a *General Requirement* and a *Course Requirement*. For information regarding the *General Requirement*, for purposes of matriculation, candidates should write to The Secretary, Joint Matriculation Board, Manchester, M15 6EU. The course requirement is set out below.

Course requirement

Five and a half year scheme: for admission to the scheme, passes in two approved subjects at advanced level are required. These passes may be in any subject, including Arts subjects.

For exemption from the first year of the scheme passes in three approved subjects at advanced level are required:

One of these passes must be in chemistry.

The other passes must be in any two of the following subjects:

(a) physics
(b) mathematics
(c) zoology or biology.

2. Candidates must present themselves for examination or re-examination in all the subjects prescribed for any examination or part thereof at the same time except as provided in regulations 3 and 7 below.

3. Candidates who have failed in a subject of (a) the first examination or (b) part 1 of the second examination or (c) part 3 of the third examination may be exempted from re-examination in such subjects for the respective examinations as the Board of the Faculty of Medicine may determine.

4. Candidates for the first examination are required to have attended approved courses at the University or at an institution recognised for this purpose by the University, or to have attended at some other institution courses of instruction accepted as equivalent by the Senate.

5. For the first examination, the courses of instruction shall be as follows:

(a) Chemistry: lectures and laboratory work for three terms
(b) Physics: lectures and laboratory work for three terms
(c) Mathematics: lectures for three terms
(d) Zoology: lectures and laboratory work for three terms.

6. The first examination will be held in June each year. It will include laboratory work in each of the subjects listed in regulation 5(a), (b) and (d) above. Candidates who fail to satisfy the examiners in any subject of the examination in June may be granted permission by the Senate to present themselves at a supplementary examination in September.

7. Exemptions may be granted as follows:

(a) candidates who have passed at the advanced level in chemistry, physics, mathematics or zoology in a General Certificate of Education examination will be granted exemption from the courses and examinations in the same subject or subjects of the first examination
(b) candidates who have passed in biology at the advanced level in a General Certificate of Education examination will be granted exemption from the course and examination in zoology of the first examination
(c) candidates who hold qualifications deemed by the Senate to be equivalent to the above may also be granted exemption.

8. Candidates will not be allowed to proceed with the courses in anatomy and physiology and biochemistry until they have passed, or gained exemption from, the whole of the first examination, as laid down in article 6 of Ordinance VII.

9. Candidates for parts 1 and 2 of the second examination are required to have attended courses including lectures and practical work in: anatomy for three terms; histology for two terms; physiology and biochemistry for three terms; dental anatomy and physiology for two terms; dental histology for two terms with laboratory instruction.

10. Parts 1 and 2 of the second examination will be held in June. Candidates who fail to satisfy the examiners may be permitted to present themselves for re-examination in September, but before doing so must pursue such further study as may be required by the Board of Faculty of Medicine.

11. Candidates will not be allowed to proceed to their clinical studies until they have passed part 1 of the second examination.

12. Candidates for parts 3 and 4 of the second examination are required to have attended courses in chemistry and physics of dental materials for three terms; dental mechanics and properties of dental materials for three terms with laboratory instruction; dental prosthetics for one term; clinical practice for six months.

13. Part 3 and 4 of the second examination will be held in June. Candidates who fail to satisfy the examiners may be permitted to present themselves for re-examination in September, but before doing so must pursue such further study as may be required by the Board of the Faculty of Medicine.

14. Candidates will not be allowed to proceed to the courses for the third and final examination until they have passed part 3 of the second examination.

15. Candidates for part 1 of the third examination are required to have attended courses including lectures and practical work in general pathology and bacteriology for three terms; and are required to have held, in a hospital approved by the University, a post-mortem clerkship for three months.

16. Part 1 of the third examination will be held in June. Candidates who fail to satisfy the examiners may be permitted to present themselves for re-examination in September, but before doing so must pursue such further study as may be required by the Board of the Faculty of Medicine.

17. Candidates for part 2 of the third examination are required to have attended a course in pharmacology and therapeutics covering two terms.

18. Part 2 of the third examination will be held in March. Candidates who fail to satisfy the examiners may be permitted to present themselves for re-examination in September, but before doing so must pursue such further study as may be required by the Board of the Faculty of Medicine.

19. Candidates for part 3 of the third examination are required to have attended courses in: medicine for two terms with clinical instruction; surgery for two terms with clinical instruction; and to have pursued courses in clinical dental surgery for at least one year.

20. Part 3 of the third examination will be held in December. Candidates who fail to satisfy the examiners may be permitted to present themselves for re-examination in June, but before doing so must pursue such further study as may be required by the Board of the Faculty of Medicine.

21. Candidates for the final examination are required to have passed the second and third examinations; to have attended courses of instruction in operative technique for six months;

the physical principles of radiology and radiological protection for one term; radiology for one term; clinical dental radiology for one term; applied anatomy and histology for one term; anaesthetics for one term; special pathology and bacteriology for two terms; conservative dentistry for two terms; periodontology for two terms; children's and preventive dentistry for two terms; orthodontics for two terms; law and ethics of dental practice for one term; general dental practice for one term; public dentistry for one term; oral surgery for three terms; clinical dental surgery for two and a half years; and to have attended for at least three years the practice of an approved dental hospital or of the dental department of an approved general hospital.

22. Not less than four weeks before the beginning of the final examination, the internal examiners in dental surgery will decide which candidates, being able to satisfy their teachers as specified above, may proceed to the final examination.

23. The final examination will be held in March. Candidates who fail to satisfy the examiners may be permitted to present themselves for re-examination in September, but before doing so must pursue such further study as may be required by the Board of the Faculty of Medicine.

24. In determining the award of honours to candidates their performance in the second, third and final examinations will be considered.

THE DEGREE OF MASTER OF DENTAL SCIENCE

25. Candidates accepted for the degree of Master of Dental Science shall be required:

(a) to be registered as students of the University

(b) to attend to the satisfaction of the head of the Dental School such courses of instruction in the University as the Senate on the recommendation of the Board of the Faculty of Medicine may require.

26. Schemes of advanced study approved for the purpose of the degree of Master of Dental Science will normally start in October in each year at the beginning of the academic session and will include lectures, tutorials and practical work in one or more of the branches of dentistry selected from the following:

Children's and preventive dentistry
Conservative dentistry
Oral pathology
Oral surgery
Orthodontics
Periodontology
Prosthetic dentistry

or other aspect of dentistry approved by the Board of the Faculty.

27. During the course of advanced study each candidate will be required to carry through and prepare a dissertation on a project concerning some aspect of the branch or branches of dental surgery being studied.

28. The examination for the degree will include three written papers of three hours each, an assessment of the dissertation and of the practical work undertaken during the course and, at the discretion of the examiners, an oral examination.

29. The names of the candidates who have satisfied the examiners shall be arranged in alphabetical order and distinction may be awarded for work of exceptional merit.

THE DEGREE OF DOCTOR OF DENTAL SCIENCE

30. A graduate who wishes to be accepted as a candidate for the degree must submit the title of his thesis for the approval of the Board of the Faculty of Medicine. The title must be accompanied by a short outline (between 400 and 500 words) of the proposed or actual scope of the work and of the methods involved.

31. Such approval having been obtained, a candidate must apply to the Registrar to be examined. This application must be on a special form to be obtained from the Registrar and must be accompanied by a fee of £50.00. The application should be accompanied by three copies (printed or typewritten) of his thesis together with illustrations or specimens. A copy of the thesis approved for the degree will be retained in the University library.

32. A candidate shall not be permitted to submit a thesis for which a degree has already been conferred upon him or which is under consideration for the awarding of a degree in this or any other university.

33. A candidate including in his thesis work previously published under joint authorship shall be required to indicate to the satisfaction of the examiners his own share of the joint publication.

34. Candidates will be examined orally on the subject of the thesis and may be required to present themselves for such other examination as may be deemed necessary.

35. Candidates will be informed within three months of the receipt of their thesis when they will be required to attend for an oral examination and will be given not less than six weeks' notice of the date of the examination.

Guidance to candidates

Intending candidates, before submitting the title of their thesis for the approval of the Board of the Faculty of Medicine, should first discuss with the head of the Dental School their proposals and scheme of work. He will be able to suggest a person to whom the candidate may turn for advice on drawing up the proposed study and carrying it out. This person may be a member of the University staff or an outside person who is easily accessible.

Scholarships

Full particulars of all University scholarships and of the general regulations under which scholarships are awarded may be found in the prospectus *Student Awards, Financial Aid, Medals and Prizes.*

The General Dental Council offers a limited number of scholarships for students who have passed in at least two subjects either at the advanced level in the examination for the General Certificate of Education or the Senior Certificate of the Ministry of Education of Northern Ireland or at the higher standard in the examination for the Scottish Leaving Certificate, and have been accepted as students by one of the dental schools. Application must be made by 30 June on a form to be obtained from the Registrar of the General Dental Council, 37 Wimpole Street, London, W.1. Applicants will be selected for interview in London in September.

The Amalgamated Dental Company have established four scholarships each of a maximum value of £250 per annum, tenable for the full period of the course, to enable students seeking financial assistance to undertake or continue studies. One object is to enable near relatives of dentists to prepare for entry to the profession and in so far as is practicable preference will be given to such persons. Forms of application and conditions governing the awards may be obtained from the Secretary of the British Dental Association, 64 Wimpole Street, London, W.1.

The Ministry of Defence Air Department offers a limited number of dental cadetships affording university training leading to a degree in dental surgery to suitably qualified young men who wish to serve on permanent commissions in the Dental Branch of the Royal Air Force. Further particulars may be obtained from the Deputy Director of Dental Services, Royal Air Force, Ministry of Defence, 1-6 Tavistock Square, London, W.C.1.

The Ministry of Defence Army Department offers a limited number of dental cadetships, affording university training leading to a degree in dental surgery to suitably qualified young men who wish to serve on permanent commissions in the Royal Army Dental Corps. Further particulars may be obtained from the Deputy Director of Dental Services, Ministry of Defence (A.M.D.6), Lansdowne House, Berkeley Square, London, W.1.

Scholarships and other awards tenable at the University are also offered by local authorities. Information may be obtained from the chief education officer of the authority concerned.

Prizes

THE STEPHEN D. HEY PRIZE IN CONSERVATIVE DENTISTRY

1. Mr. Stephen D. Hey, L.D.S.R.C.S.Eng. (one-time member of the Dental School and Hospital at Leeds) provided in his will the sum of £500 to be invested by the University so that a dental prize should be awarded annually to the best dental operator in conservative dentistry in the final year in the University of Leeds Dental School. The present value of the prize is £20.

2. The award will be made by the Senate on the recommendation of the Board of Dental Studies.

3. The prize will be awarded to the student who has carried out the most satisfactory work in conservative dentistry during the final year of the course. The student's work in the clinical part of the final examination may be taken into consideration.

THE PERCY LEIGH PRIZE IN CLINICAL DENTAL SURGERY

1. Mr. P. T. Leigh, L.D.S. (Leeds and Glasgow), R.C.S. (England), to mark his year of office (1935-6) as Lord Mayor of Leeds, presented to the University the sum of £100 to provide annually a prize in the subject of clinical dental surgery. The present value of the prize is £6.

2. The award will be made by the Senate on the recommendation of the Board of Dental Studies.

3. The prize will be awarded on the result of an examination in clinical diagnosis, including clinical pathology and bacteriology and the interpretation of radiographs. A high standard of proficiency must be attained by the successful candidate.

4. Candidates must be students of the University of Leeds who are in the final year of a normal curriculum for the degree of Bachelor of Dental Surgery and no candidate may compete more than once for the prize.

OTHER PRIZES

The Operative Dental Surgery Prize (value £7.50)
The Orthodontics Prize (value £7.50)
The Periodontology Prize (value £7.50)
The Extractions Prize (value £7.50)
The Dental Prosthetics Prize (value £7.50)

Certificates of Merit may be awarded to those students who reach a sufficiently high standard in these prize examinations.

Students may only compete for prizes and certificates in their respective years and may not enter twice for the same examination.

THE CHARLES AND ELEANOR KNOWLES PRIZE IN CHILDREN'S DENTISTRY

1. In 1966 Miss Eleanor Knowles, *O.B.E.*, L.D.S., gave to the University the sum of £500 on behalf of herself and her brother, the late Charles Knowles, L.D.S., to be used to provide a prize for an essay on children's dentistry. The prize shall be awarded biennially and be of the value of approximately £40.

2. To be eligible for the prize candidates must be graduates or licentiates in dental surgery of the University of Leeds or other universities or licensing authorities in the United Kingdom and have been registered as dental practitioners for not more than five years at the time of the award.

3. The prize shall be awarded to the person who submits the most meritorious essay on an aspect of dental health in children up to the age of ten years. The material submitted should consist of personal research or observation and should not have been previously published. The essay shall be no longer than 6,000 words and shall be in a form suitable for publication.

4. The prize shall be awarded by the Senate of the University on the recommendation of a committee set up by the Board of Dental Studies for the purpose. Notice of the prize shall be given in the national and dental press at least twelve months prior to the award and candidates should submit their names by 1 December in the year preceding the award. The closing date for submission shall be 1 June.

5. In the event of there being no award, Senate shall be empowered to recommend that a maximum of two prizes may be awarded on a subsequent occasion.

Medals

THE PERCY LEIGH MEDAL

1. Mr. P. T. Leigh, L.D.S. (Leeds and Glasgow), R.C.S. (England), in 1929 presented to the University to encourage the science and art of dental mechanics the sum of £105 to provide a medal to be awarded annually to a student in the dental mechanics laboratory of the dental school. In addition to the medal, the award includes a prize of £5.

2. The award will be made by the Senate on the recommendation of the Board of Dental Studies.

3. The award will be based on the result of an examination in dental mechanics. The result of the professional examination in dental mechanics and the properties of dental materials may be taken into consideration. A high standard of skill must be shown.

4. No student will be permitted to compete for the award more than once.

5. If two candidates are equally deserving, two awards may be made.

6. A certificate of merit may be awarded to students who reach a sufficiently high standard in the examination.

THE CHARLES RIPPON MEDAL

1. Mr. Charles Rippon, Ph.D., L.D.S., on his retirement in 1928 from the lectureship in dental mechanics, presented to the University the sum of £100 to provide a silver medal to be awarded annually to the most distinguished student of the year in the School of Dentistry.

2. Candidates for the medal must be students who are in the final year of a full curriculum for the degree of Bachelor of Dental Surgery who have pursued the full course of clinical studies at the University of Leeds after registration.

3. The award will be made by the Senate on the recommendation of the Board of Dental Studies after the results of the final examination for the degree of Bachelor of Dental Surgery held in March have been ascertained. Only candidates who have attained a high standard of proficiency shall be eligible. In determining the award of the medal, account will be taken of the marks obtained in the prize examinations taken during the final year of the course, the marks obtained in the final professional examination and each candidate's general record.

4. No student will be allowed to compete for the medal more than once.

5. If two candidates show equal distinction two medals may be awarded should there be sufficient funds for the purpose.

THE WILLIAMSON MEDAL

1. Mr. Norman Tetlow Williamson, L.D.S., *Leeds*, provided in his will the sum of £100 to be invested by the University in order to provide an award to be made annually after an examination relating to the treatment of children's teeth.

2. The award will be made by the Senate on the recommendation of the Board of Dental Studies.

3. The medal will be awarded on the result of a written examination in children's dentistry. Candidates' general record of clinical work in the children's department of the dental hospital may be taken into consideration.

4. No student will be permitted to compete for the medal more than once.

5. If two candidates show equal distinction, two medals may be awarded if there be sufficient funds for the purpose.

The Dental School Library

The library comprises over 4,000 books and pamphlets. An extensive collection of periodicals, British and foreign, is maintained. Important new publications are added regularly.

REGULATIONS

1. *Hours of opening*

The library is open on Monday to Friday from 9 a.m. to 5 p.m. and on Saturday from 9 a.m. to 12.30 p.m.

It is closed during one week at Christmas, on public holidays and on all other days on which the University buildings are closed.

2. *Admission*

(a) Members of the academic staff of the University, members of the medical and dental staff of the United Leeds Hospitals, members of the Leeds and West Riding Medico-Chirurgical Society, and students of the School of Medicine and School of Dentistry are entitled to the use of the library subject to the following conditions.

(b) Full members of the Medico-Chirurgical Society are subject to the same regulations as members of the academic staff; temporary members are subject to the same regulations as students.

(c) Students, other than those attending the School of Medicine or the School of Dentistry, may be allowed to use the library only on production of a written recommendation from the head of the appropriate department and with the permission of the Librarian.

(d) Other persons may be allowed by the Librarian to consult books on stating the subject of their studies and on producing a satisfactory recommendation. In special cases and on payment of 50p for twelve months they may also be allowed to borrow books at the discretion of the Librarian.

3. *Discipline*

(a) Silence shall be observed in the library.

(b) Smoking, and the consumption of food or drink, in any part of the library is forbidden.

(c) No bag, attaché case or parcel shall be brought into the library.

(d) No reader shall write in or otherwise mark books or periodicals belonging to the library. Any damage to, or loss of, books shall be made good to the satisfaction of the Librarian.

(e) The Librarian has the power to suspend the library privileges of any person who infringes the regulations, and shall report any suspension to the library committee.

4. *Borrowing in general*

(a) No book shall be removed from the library unless the borrower shall have first filled in the form provided. The form will be returned to the borrower as a receipt for the book returned, and the borrower shall be responsible for the book so long as the form remains in the library uncancelled.

(b) All books may normally be borrowed with the exception of works of reference and books of special value and rarity; but the Librarian may withhold or restrict the circulation of any book in the library. He is further permitted to grant special facilities during a limited period to any person entitled to the use of the library.

(c) Reference books, volumes on the recent accessions shelves and unbound numbers of periodicals may be borrowed only after 4 p.m. (12 noon on Saturday) and must be returned before 10 a.m. on the next day on which the library is open. Unbound numbers of periodicals, other than the current number, may be borrowed, after having been received by the library for not less than one calendar month, for a period of up to three days. Failure to comply with these conditions will incur a fine of 5p for each day or portion of a day for which a book is retained.

(d) No person shall borrow a book from the library if he has in his possession any book which he has kept beyond the time allowed by the regulations or if any fine or charge which he has incurred has not been paid.

(e) Theses of the University, with certain exceptions, may, with the consent of the Librarian, be consulted or borrowed.

(f) Books may not be taken abroad without the special permission of the Librarian.

5. *Borrowing by staff and research students*

(a) Members of the academic staff shall be entitled to have at one time not more than twenty books borrowed from the library, unless this number is increased by the special permission of the Librarian. Books may be retained until a notice is received from the Librarian that they are overdue, in which case they shall be returned to the library without delay. A book shall be regarded as overdue when it has been in the possession of the borrower for a fortnight and is required by another reader.

(b) Postgraduate students and students in the final year of an Honours school shall have the same privileges and be subject to the same regulations as members of the academic staff except that they may not have at one time more than ten books in their possession.

6. *Borrowing by students*

(a) Students shall have the right to have not more than three books borrowed from the library at one time except that this number may be increased by the Librarian on a recommendation from the head of a department.

(b) Every book shall be returned to the library on or before the fourteenth day following that on which it was taken out. If application is made personally or by post before the end of the period a book may be renewed for a further fortnight unless it is required by another reader.

(c) Failure to comply with the above condition shall entail a fine of 2½p in respect of each day or portion of a day for which the return of a book is overdue.

7. *Annual inspection*

All books must be returned for the annual inspection ordinarily held in June. The issue of books will be suspended during the inspection. Failure to return books under this rule shall involve a fine of 2½p in respect of each day or portion of a day for which the return of a book is overdue.

8. *Inter-library loans*

Books borrowed from other libraries are subject in each case to the conditions imposed by the lending library. If books are required for home reading this fact must be stated in the application.

Fees

Fees must be paid to the Bursar promptly upon demand and may be paid in the administrative office, School of Dentistry, or in the Bursar's office. Cheques should be crossed and made payable to 'The University of Leeds'.

On presentation of a form signed by the Head of the Dental School authorising attendance upon courses of study, and upon payment of the requisite fees, the Bursar will issue a registration certificate entitling the student to attend such courses. This certificate must be presented by the student on request, to the professors or lecturers whose classes or lectures he is authorised to attend.

Students who, for any reason, cease to attend the University during a session have no claim to a refund of fees.

The University reserves the right to revise fees at any time without notice.

INCLUSIVE ANNUAL ACADEMIC FEE

On payment of the fee a student is entitled to attend the prescribed course of lectures, to take the appropriate examinations and, if successful, to be awarded the appropriate degree or diploma.

Unless otherwise stated, payment of the inclusive academic fee entitles a student to membership of the University Union.

There are two scales of fees, and the appropriate scale can be found by reference to the detailed regulations for assessment of fees.

Students paying a fee of £74.50 or more under Scale I or £244.50 under Scale II will be admitted without further charge to any additional classes at which their attendance has been sanctioned by the Vice-Chancellor and the head of the department concerned.

The fee must be paid sessionally in advance.

Charges additional to the fee will be made in respect of late entries for examinations, re-examinations and (for certain courses) use of equipment. Details of these additional charges are given in the appropriate tables.

All registered students of the University are entitled to use the libraries without payment.

STAFF FEES

Tuition fees will not be charged to full-time members of the staff accepted as candidates for higher degrees, except in the case of those appointments financed by outside research organisations and similar bodies.

All members of staff to whom the above concession is granted will be required to pay a fee to cover the cost of examination and graduation fees as follows:

Ph.D. or D.D.Sc.	£25
Mastership	£15

ASSESSMENT OF FEES UNDER SCALES I or II

Students who hold an award from a Local Education Authority in the United Kingdom or who satisfy the requirements for residence set out below will be charged fees under Scale I. Students who do not hold an award from a Local Education Authority in the United Kingdom and who do not satisfy the requirements for residence will be charged fees under Scale II.

Residence Requirements

Students who do not hold an award from a Local Education Authority must satisfy one of the following requirements to be eligible for fees under Scale I.

(a) The student has been ordinarily resident in the United Kingdom for at least three years immediately before the beginning of the academic year commencing 1 September in which the course is due to begin.

(b) The parents of the student or one of them have been ordinarily resident in the United Kingdom for at least three years immediately before the beginning of the academic year commencing 1 September in which the course is due to begin.

(c) The student would have been ordinarily resident in the United Kingdom for at least three years immediately before the beginning of the academic year commencing 1 September in which the course was due to begin, had he or his parents (or one of his parents) not been temporarily resident outside the United Kingdom.
(d) The student is under 21 and both the student and his parents or one of them have been ordinarily resident in the United Kingdom for at least one year immediately before the beginning of the academic year commencing 1 September in which the course is due to begin.
(e) The student has been:
(i) Ordinarily resident or on a full-time or sandwich course of higher education for one year immediately before the beginning of the academic year commencing 1 September in which the course is due to begin

AND

(ii) Married for at least one year immediately before the beginning of the academic year commencing 1 September in which the course is due to begin to a person who has been ordinarily resident in the United Kingdom for at least three years immediately before the beginning of the academic year commencing 1 September in which the course is due to begin.

The term "ordinarily resident" includes periods spent at school following "O" and "A" level courses and Ordinary National Diploma courses but excludes university and Higher National Diploma courses.

Inclusive Academic Fee (including Union Fee)	I	II
	£	£
Bachelor of Dental Surgery		
Each of first five years	89.50	259.50
Sixth year	60.00	174.00
Master of Dental Science		
Full-time	89.50	259.50
Part-time		
Leeds graduates		
First year	42.50	119.50
Second year and subsequent years	24.50	54.50
Other graduates		
First and subsequent years	42.50	119.50
Diploma in Dental Public Health	†114.00	†264.50
Doctor of Dental Science	*50.00	*50.00

OTHER FEES AND CHARGES

Examination Late Entry Fee

Examination entries will be accepted after the last dates for receipt shown in the University almanac only on payment of an additional fee of 50p. Entries submitted more than six weeks after the closing dates will be accepted only in special circumstances and on payment of a special late entry fee of £1.

The latest dates for entry to examinations and the payment of examination fees are:

For December, on 23 October, 1971
For March, on 22 January, 1972
For June, on 22 April, 1972
For September, on 1 July, 1972

Re-examination Fees‡	£
Degree of B.Ch.D.	
First examination	2 per subject
Second examination	3 per subject
Third examination	3 per subject
Final examination	8 per subject

*This fee does not entitle the student to membership of the University Union.
†This fee does not include the fee for the examination which is taken externally at the Royal College of Surgeons.
‡The maximum re-examination fee payable on any one occasion is £8.

Fees for Recapitulatory and other Courses

	£
Additional dental hospital practice	
3 months	18
6 months	32
Postgraduate work, per half day	2
Additional course in dental mechanics	
2 months	10
3 months	17
9 months	45

Apparatus Fees and Deposits

At the beginning of the first year students working in the chemistry laboratories will pay a deposit of £6 to cover the cost of replacing broken apparatus, etc. The deposit will be paid at the same time as the inclusive academic fee and will be refunded at the end of the session after deduction of cost of breakages. When a student's breakages exceed £6 a further deposit will be payable.

Locker Fee and Breakages Deposit

A deposit of £2 is payable at the beginning of the dental course. Of this amount, £1.25 will be retained as locker rent, the balance being returnable at the end of the course less the cost of replacing keys, apparatus etc., lost or broken by students in the Dental Hospital. If at any time during the course the total cost of replacements exceeds 75p, a further deposit of £1 will be payable. Any breakages in the departments of pure science during the first year of a student's course will be charged for separately at the end of the year.

Cost of Dental Education

The approximate cost of instruments and books which a student must purchase during his course, is as follows:

	£	£
The first year		
Books	8	
	—	8
The second year		
Laboratory tools	11	
Books	24	
	—	35
The third year		
Laboratory tools	8	
Books	14	
	—	22
The fourth year		
Operating instruments	92	
Books	25	
	—	117
The fifth year		
Books	18	
	—	18
		—
		200
		=

Students who hold an award from a Local Education Authority may claim a grant of £45 to cover the cost of instruments purchased during the course.
The Ministry of Health makes a grant to each student of £9 a year (with a maximum of £27 during his course) for the use of his own instruments in the treatment of patients in the Dental Hospital.

Time Tables (Provisional)

THE PRE-DENTAL YEAR

First Year

Lectures and practical classes	*Hours*					
	M.	*Tu.*	*W.*	*Th.*	*F.*	*S.*
Chemistry:						
Lectures—A	12 to 1		12 to 1		12 to 1	
B		11 to 12		9 to 10		9 to 10
Laboratory work		2 to 5	9 to 12			
Physics:						
Lectures		12 to 1		10 to 11	2 to 3	
Laboratory work		9 to 12				
Mathematics:						
Lectures	9 to 10		9 to 10		9 to 10	
Zoology:						
Lectures	11 to 12				11 to 12	
Laboratory work	2 to 4			2 to 4		

First examination June (and September)

THE PRE-CLINICAL YEAR

Second Year

Lectures and practical classes	*Hours*					
	M.	*Tu.*	*W.*	*Th.*	*F.*	*S.*
FIRST TERM						
Anatomy:						
Lectures	4 to 5				12 to 1	
Tutorials					2 to 3	
Practical	2 to 4				3 to 5	
Histology					10 to 12	
Physiology:						
Lectures	9 to 10		9 to 10		9 to 10	
Practical			10 to 1			
Biochemistry:						
Lectures	12 to 1	12 to 1		11 to 12		
Practical		2 to 5				
Intro-dental mechanics and tooth morphology	10 to 12					
SECOND TERM						
Anatomy:						
Lectures	4 to 5				4 to 5	
Tutorials				4 to 5		
Practical				2 to 4	2 to 4	
Histology	2 to 4					
Physiology:						
Lectures	9 to 10		9 to 10		9 to 10	
Practical			10 to 1			

Lectures and practical classes	*M.*	*Tu.*	*W*	*Th.*	*F.*
			Hours		
Biochemistry:					
Lectures	12 to 1				
Practical and Tutorials					10 to 1
Dental anatomy and physiology:					
Lectures	10.30 to 11.30				
Histology		9 to 10		9 to 12	
Intro-dental mechanics and tooth morphology		2 to 5			
THIRD TERM					
Anatomy:					
Lectures	12 to 1				4 to 5
Tutorials					2 to 4
Practical	10 to 12 2 to 5				
Histology					10 to 12
Physiology:					
Lectures	9 to 10		9 to 10		9 to 10
Practical			10 to 1		
Dental anatomy and physiology:					
Lecture				2 to 3	
Histology		2 to 3.30			
Intro-dental mechanics and tooth morphology		3.30 to 5			

Second Examination, Parts 1 and 2, June (and September)

THE CLINICAL PERIOD

Third Year

Lectures and practical classes	*M.*	*Tu.*	*W.*	*Th.*	*F.*
			Hours		
FIRST TERM					
Chemistry and physics of dental materials:	9 to 12				
Dental mechanics and properties of dental materials:					
Lectures				11 to 12	
Laboratory		9 to 12.30	9 to 12.30	9 to 11	9 to 11
	2 to 5	2 to 5	2 to 5	2 to 5	2 to 5
Dental prosthetics:					
Lectures					11 to 12
Clinical and dental hospital practice			At times to be arranged		

Lectures and practical classes	*M.*	*Tu.*	*W.*	*Th.*	*F.*
			Hours		
SECOND TERM					
Chemistry and physics of dental materials:		2 to 5			
Dental mechanics and properties of dental materials:					
Lectures				11 to 12	
Laboratory	9 to 12.30 2 to 5	9 to 12.30	9 to 12.30 2 to 5	9 to 11 2 to 5	9 to 10.30 2 to 5
Dental prosthetics:					
Lectures					10.30 to 11.30
Clinical and dental hospital practice			At times to be arranged		
THIRD TERM					
Chemistry and physics of dental materials:		2 to 5			
Dental mechanics and properties of dental materials:					
Laboratory	9 to 12.30 2 to 5	9 to 12.30	9 to 12.30 2 to 5	9 to 11.30 2 to 5	9 to 12.30 2 to 5
Dental prosthetics:					
Lectures				11.30 to 12.30	
Clinical and dental hospital practice			At times to be arranged		

NOTE: Attendance for dental laboratory work and dental hospital practice is required during the vacations.

Second Examinations, Parts 3 and 4, June (and September)

Fourth Year

Lectures and practical classes	*M.*	*Tu.*	*W.*	*Th.*	*F.*
			Hours		
FIRST TERM					
Pathology and bacteriology:					
Lectures and practical work	2 to 5			2 to 5	
Clinical dental surgery:					
introduction and orientation					
Lectures			12 to 1		
Operative technique:					
Lectures	12 to 1				2 to 3
Demonstrations and practical work	9 to 12	9 to 12.30 2 to 5	9 to 12 2 to 5	9 to 12.30	9 to 12.30 3 to 5
Intro-oral surgery:					
Lectures and practical		10 to 12			10 to 12

Lectures and practical classes	*M.*	*Tu.*	*W.*	*Th.*	*F.*
			Hours		
SECOND TERM					
Pathology and bacteriology:					
Lectures and practical work		2 to 5		2 to 5	
Post-mortems			At times to be arranged		
Conservative dentistry:					
Lectures			12 to 1		
Periodontology:					
Lectures					9 to 10
Children's dentistry:					
Lectures					12 to 1
Dental hospital practice:	9 to 12.30 2 to 5	9 to 12.30	9 to 12 2 to 5	9 to 12.30	10 to 12 2 to 5
THIRD TERM					
Pathology and bacteriology:					
Lectures and practical work	2 to 5				
Post-mortems			At times to be arranged		
Medicine:					
Lectures and clinical work		9 to 10			
Surgery:					
Lectures and clinical work			12 to 1		
Physical principles of radiology and radiological protection: Lectures					12 to 1
Radiology: Lectures					
Oral pathology:					
Lectures	9 to 10				
Practical	10 to 11				
Oral surgery:					
Lectures					9 to 10
Periodontology:					
Lectures	11.30 to 12.30				
Orthodontics:					
Lectures			12 to 1		
Dental hospital practice:		10 to 12 2 to 5	9 to 12 2 to 5	9 to 12.30 2 to 5	10 to 12 2 to 5

NOTE: Attendance for operative technique and dental hospital practice is required during the vacations.

Third Examination: Part I, June (and September)

Fifth Year

Lectures and practicai classes	*M.*	*Tu.*	*W.*	*Th.*	*F.*
			Hours		
FIRST TERM					
Medicine:					
Lectures		9 to 10			
Tutorial, clinical		10 to 12			
Surgery:					
Lectures and Tutorial, clinical			12 to 1		
Pharmacology:					
Lectures		12 to 1			
Anaesthetics:					
Lectures			At times to be arranged		
Clinical dental radiology:					
Lectures	9 to 10				
Periodontology:					
Lectures	12 to 1				
Preventive dentistry:					
Lectures				9 to 10	
Orthodontics:					
Lectures				12 to 1	
Dental hospital practice:	10 to 12 2 to 5	2 to 5	9 to 12 2 to 5	10 to 12 2 to 5	9 to 12.30 2 to 5
	Third Examination, Part 3, December (and June)				
SECOND TERM					
Pharmacology:					
Lectures	4 to 5				12 to 1
Therapeutics:					
Lectures			9 to 10		
Law and ethics:					
Lectures		12 to 1			
Public dentistry:					
Lectures				12 to 1	
Operative technique:					
Lectures	9 to 10			9 to 10	
Demonstrations, practical work and dental hospital practice	10 to 12.30 2 to 4	9 to 12 2 to 5	10 to 12.30 2 to 5	10 to 12 2 to 5	9 to 12 2 to 5
	Third Examination, Part 2, March (and September)				

Lectures and practical classes	*M.*	*Tu.*	*W.*	*Th.*	*F.*
			Hours		
THIRD TERM					
Oral surgery:					
Lectures, clinical			10.30 to 1		
Oral diagnosis and treatment planning			At times to be arranged		
Conservative dentistry:					
Lectures			9 to 10		
General dental practice:					
Lectures			9 to 10		
Dental hospital practice:	9 to 12.30 2 to 5	9 to 12.30 2 to 5	10 to 12.30 2 to 5	2 to 5	9 to 12.30 2 to 5

NOTE: Attendance for dental hospital practice is required during the vacation.

Sixth Year

Lectures and practical classes	*M.*	*Tu.*	*W.*	*Th.*	*F.*
			Hours		
FIRST TERM					
Oral surgery:					
Lectures		12 to 1			
Lectures, clinical			10.30 to 1		
Oral pathology and bacteriology:					
Lectures					9 to 10
Oral diagnosis and treatment planning:					
Lectures and tutorials			At times to be arranged		
Oral physiology:					
Lectures			9 to 10		
Venereal diseases:					
Lectures					12 to 1
Dental hospital practice:	9 to 12.30 2 to 5	9 to 12 2 to 5	10 to 12.30 2 to 5	9 to 10.30 2 to 5	10 to 12 2 to 5
SECOND TERM					
Oral surgery:					
Lectures, clinical			10.30 to 1		
Oral medicine:					
Lectures				4 to 5	
Oral diagnosis and treatment planning:					
Lectures and tutorials			At times to be arranged		
Dental hospital practice:	9 to 12.30 2 to 5	9 to 12.30 2 to 5	9 to 12.30 2 to 5	9 to 10.30 2 to 4	9 to 12.30 2 to 5

Final B.Ch.D. Examination, March (and September)

ORDINANCE VIII. RESEARCH DEGREES

1. The research degrees shall be:
Bachelor of Divinity (B.D.)
Master of Education (M.Ed.)
Master of Laws (LL.M.)
Master of Laws in Commercial Law (LL.M. Com.)
Master of Philosophy (M.Phil.)
Doctor of Philosophy (Ph.D.)

THE DEGREE OF BACHELOR OF DIVINITY
(A postgraduate qualification)

2. The degree of Bachelor of Divinity may be conferred, on payment of the appropriate fee, upon registered graduates of the University, subject to the conditions contained in the following paragraphs.

3. Graduates of the University may proceed to the degree of Bachelor of Divinity not less than two years after graduation on presenting a thesis satisfactory to the Senate upon a subject approved by the appropriate committee, provided that they have passed the Bachelor of Divinity qualifying examination* not less than one year before the presentation of the thesis. Candidates may also be required to pass an examination—written or oral or both—in the subject of their thesis.

Graduates of other universities

4. Graduates of other universities may proceed to the degree of Bachelor of Divinity:
(a) after becoming registered students of the University
(b) after attending for not less than two academic years such courses of lectures in the University as the Senate may require
(c) after passing the Bachelor of Divinity qualifying examination
(d) after presenting, not less than one academic year after passing the Bachelor of Divinity qualifying examination, a thesis satisfactory to the Senate upon a subject approved by the appropriate committee. Candidates may also be required to pass an examination—written or oral or both—in the subject of the thesis.

[See also the regulations on pages J6-J7.]

THE DEGREE OF MASTER OF EDUCATION

5. The degree of Master of Education may be conferred, upon payment of the proper fee, on candidates who have fulfilled the requirements set out in the following paragraphs and who have passed the required examinations.

6. Candidates shall be graduates of the University of Leeds or of another approved university, and shall have obtained either a Graduate Certificate in Education of this or of another approved university, or a qualification which is approved by the Senate as equivalent; provided that, in exceptional circumstances, the Senate may admit as candidates persons who do not fulfil both of these conditions; such persons shall satisfy the Senate that their attainments are adequate and that they are qualified to pursue a course of advanced study and research.

*See page J6.

7. Applicants for admission under the preceding paragraph who are not graduates, and applicants who have not obtained a Graduate Certificate in Education or its equivalent, shall present themselves for examination—written and, if necessary, oral; such applicants will be permitted to enter the University and to become candidates for the degree of Master of Education only if they have obtained a satisfactory result in the examination; and if they are not graduates, they will also be required to fulfil the following conditions:

(a) To be registered as students of the University

(b) To pursue an approved course of study under the supervision of the head of the department of education

(c) To attend such courses of lectures at the University as the Senate may require.

8. Every candidate shall, since attaining qualified teacher status, have obtained not less than two years' experience either in approved full-time service as a teacher in a school or in some other approved educational work.

9. Candidates for the degree of Master of Education who are graduates shall pursue a course of full-time study extending over not less than two academic years or a course of part-time study extending over not less than three academic years.
Candidates who are not graduates shall pursue a course of study extending over not less than three academic years.

[See also the regulations on pages J7-J8.]

THE DEGREE OF MASTER OF LAWS
THE DEGREE OF MASTER OF LAWS IN COMMERCIAL LAW

The degree of Master of Laws and the degree of Master of Laws in Commercial Law are governed by Ordinance IV, articles 7 to 19, and relevant regulations which are set out in the prospectus *Faculty of Law*.

THE DEGREE OF MASTER OF PHILOSOPHY

10. The degree of Master of Philosophy may be conferred, on payment of the proper fees and on presentation of a thesis, on candidates who have completed approved research (in addition to which courses of advanced study formally examined may be prescribed by the Senate) and who thereafter satisfy the examiners for the degree; subject to the fulfilment of the conditions laid down in the following articles and in the regulations governing the award of the degree (see pages J8-J9).

11. Except as provided in subsequent sections of this Ordinance, the period of full-time or, where appropriate, part-time study will normally be not less than two academic years.

12. Graduates of the University of Leeds may present themselves for the examination for the degree of M.Phil. in an approved subject without being required to attend the University, or to study under the supervision of a member of staff, or to pay fees other than the examination fee. Such candidates are, however, required to consult fully with the appropriate head of department on their subject of research and programme of work. In all other respects they will be required to satisfy the conditions as laid down in the Ordinance and the regulations governing the award of the degree.*

Candidates in the Faculties of Arts, Education and Economic and Social Studies

13. Graduates of any approved university may be accepted as candidates for the degree of M.Phil. and shall proceed to the degree by presenting a thesis satisfactory to the Senate on a

* Such candidates are advised to maintain regular contact with their department, which should be kept informed about the progress of their studies.

subject approved by the appropriate committee and, where the approved work for the degree includes a substantial element of advanced study, by satisfying the examiners in the written examinations thereon; provided that, with the approval of the Senate

(a) graduates who wish to proceed to the degree in a subject not studied as a substantial part of the course for their first degree may be required, before acceptance as candidates, to reach a satisfactory standard in a preliminary examination in that subject

(b) graduates who have not reached the honours standard in their first degree examination may be required to pass a qualifying examination in a subject prescribed by the appropriate committee not less than one year after the date of their acceptance.

14. In exceptional circumstances persons who are not graduates may, if they satisfy the Senate that their educational attainments and experience qualify them to undertake a course of advanced study and research prescribed for the degree of M.Phil., be accepted as candidates for the degree and shall present themselves for the degree examination after not less than three academic years' study on an approved course. Such candidates must first reach a satisfactory standard in a special preliminary examination and, thereafter, may proceed only if

(a) at the end of the first year they have given evidence to the Senate that their work has been satisfactory; and

(b) at the end of their second year they have passed a general examination in the subject of their study.

15. In approved cases, candidates wishing to proceed to the degree after being awarded a postgraduate diploma of the University *with distinction* in a relevant subject, may count the period of the diploma course towards the minimum period of study for the degree and thus present themselves for examination for the degree after one further calendar year of study.
[See also the regulations on pages J8-J9].

Candidates in the Faculties of Science, Applied Science and Medicine

16. Graduates of any approved university and of any faculty in this University, persons who have been awarded an approved diploma in applied science of this University in a subject regarded by the Senate as an appropriate preparation for the proposed research; or persons whose qualifications by study in an approved institution have been accepted by the Senate as equivalent to or in lieu of a degree, may be accepted as candidates for the degree of M.Phil. and shall fulfil the conditions laid down in the following articles to qualify for the award of the degree.

17. Candidates shall undertake research work, normally extending over no less than two academic years, under supervision in the University on a subject approved by the appropriate committee and shall thereafter present to the Senate a thesis embodying the results of their research. They shall also attend such formal courses of instruction as may be prescribed by the head of the department concerned.

18. (a) Candidates who have

(i) graduated as Bachelors of Science with first- or second-class honours or who hold qualifications which are deemed equivalent or

(ii) been awarded an approved postgraduate diploma in a subject regarded by the Senate as an appropriate preparation for the proposed research and achieved a sufficiently high standard in the examination, or

(iii) obtained qualifications by study in an approved institution accepted by the Senate on the recommendation of the appropriate committee as equivalent to a first- or second-class honours degree,

may be allowed to present themselves for the degree before the expiry of two academic years provided that they have prosecuted research under supervision in the University for a period of not less than one calendar year and made satisfactory progress. Although the award

of the degree may be approved at an earlier date it may not be conferred until a period of two academic years has elapsed from the date of the commencement of the candidate's study;

(b) Candidates qualified under (i) to (iii) in 18(a) above who have industrial or other experience of special relevance to their subject of research may, on the recommendation of the head of the department concerned and of the appropriate committee, receive the degree before the expiry of two academic years provided that they have prosecuted research under supervision in the University for a period of not less than one calendar year and thereafter satisfied the examiners.

19. Persons qualified under article 16 who are:

(a) members of the full-time teaching staff of any institution approved in each case by the Senate for this purpose; or

(b) members of the staff of industrial or scientific establishments geographically near to the University and approved by the Senate in each case for this purpose

shall be required to undertake approved research under supervision, normally by a member of the staff of the University, both at their place of work and in the University for a total period extending over not less than nine terms.

20. In exceptional cases, persons who are not graduates but who have satisfied the Senate that their educational attainments and experience are adequate may be accepted as candidates for the degree with such period of full-time or part-time study as may be prescribed in each case.

THE DEGREE OF DOCTOR OF PHILOSOPHY

21. The degree of Doctor of Philosophy may be conferred, on payment of the appropriate fee and on presentation of a thesis, subject to the conditions in the following articles and in the regulations governing the award of the degree (see pages J9-J10):

(a) on persons who are registered graduates of the University of Leeds or graduates of an approved university

(b) on the holder of a recognised degree awarded as a result of study at an approved institution other than a university; or of a diploma awarded by such an institution not empowered to confer degrees; or of any other qualification approved for this purpose by the Senate; provided that the course of study in the subject for which the degree has been awarded has extended over not less than three years of full-time study and is acceptable to the Senate as being an adequate preparation for the research proposed

(c) in exceptional circumstances, on the holder of a diploma of the University of Leeds, provided that the Senate is satisfied regarding the course of study towards such diploma and the standard attained by the candidate in the examination for the diploma.

22. A candidate applying for acceptance for the degree under the provisions of paragraphs (b) and (c) of article 21 will be required to present to the Senate evidence of a satisfactory general education; and in the absence of such evidence may be required to pass an examination to be prescribed in each case by the Senate, before his acceptance.

23. Except as may hereinafter be provided, all candidates for the degree of Doctor of Philosophy are required to pursue for not less than three academic years (of which not less than two calendar years must be of full-time study in residence at the University) an approved course of advanced study and research under such supervision and direction as may be prescribed.

24. In special circumstances, candidates may be permitted to devote such periods as may be deemed advisable by the Senate to full-time study and research in other approved universities or institutions, or in an approved scientific or industrial establishment, while remaining under the

direction of the University or of persons nominated by the University, provided that they spend in the University not less than one calendar year or an equivalent period prescribed by the Senate.

(Persons working in approved scientific or industrial establishments will be eligible for acceptance for the degree of Doctor of Philosophy under the provisions of article 24 only if the terms of their employment permit them to devote their whole time to their research for the degree; and will normally be expected to be in full-time residence at the University for at least the first two terms of their course, when they may be required to attend formal instruction at an advanced level. The Senate reserves the right to extend the overall minimum period of study of three academic years in such cases.)

25. Normally applicants for acceptance as candidates for the degree of Doctor of Philosophy under the provisions of article 21 above will, in the first instance, either be required to apply for acceptance as candidates for the degree of Master of Philosophy or be asked to register as research students, and may, with the approval of the appropriate committee, be accepted as candidates for the degree of Doctor of Philosophy on completion of their first year of study to the satisfaction of the head of the department concerned. The Senate may waive this requirement in the case of

(a) persons already holding a higher degree of an approved university or institution awarded on completion of a course of advanced study or research undertaken after the award of a first degree

(b) persons whose academic qualifications reach the required standard and who have, in addition, industrial or other experience of special relevance to their proposed subject of research, and who are recommended by the head of the department concerned as being suitably qualified for direct acceptance for the degree.

26. Candidates in the Faculties of Science, Applied Science and Medicine whose academic qualifications reach the required standard and who have industrial or other experience of special relevance to the proposed subject of research or who have made outstanding progress in their studies may, on the recommendation of the head of the department concerned and with the approval of the appropriate committee, present themselves for the examination for the degree after a minimum of two calendar years of full-time study. Such candidates shall not be eligible to have the degree conferred upon them (except as specified in article 27) until the expiry of the full minimum period of study of three academic years.

27. The Senate shall be empowered:

(a) to reduce, in exceptional cases, the minimum period of three academic years of full-time study for the degree of Doctor of Philosophy in cases where the academic qualifications of a candidate or the excellence of his work for the degree merit such a reduction, provided that no candidate may have the degree conferred upon him before the completion of two calendar years of full-time study, or such equivalent period as may be determined

(b) to permit persons holding the approved higher degrees to present themselves for examination for the degree after two calendar years.

28. In the case of persons accepted for the degree under article 21 (a) and (b) above, the normal requirement of three academic years of full-time study may be waived at the discretion of the Senate. Such candidates will be required to undertake a part-time course of advanced study and research in the University for a minimum period of *three calendar years;* and during this period to maintain such personal contact with their supervisor as may be prescribed by the appropriate committee.

(The provisions of article 28 will normally be restricted to candidates already holding a higher degree obtained by advanced study and research, or other relevant qualification or experience.)

[See also the regulations on pages J9-J10.]

THE DEGREE OF BACHELOR OF DIVINITY
(A postgraduate qualification)

Graduates of the University

1. In all cases candidates wishing to present a thesis connected with Old Testament studies must, before acceptance as candidates for the degree, have passed an examination in Hebrew of a standard equivalent to that required of candidates taking Hebrew as a three-year subject for the degree of Bachelor of Arts. Similarly, candidates wishing to present a thesis connected with New Testament studies must, before acceptance as candidates for the degree, have passed an examination in Greek of a standard equivalent to that required of candidates taking Greek as a three-year subject for the degree of Bachelor of Arts.

The qualifying examination for the degree consists of the following subjects:

Old Testament history, literature and religion with or without Hebrew language and literature (2 papers, either in Old Testament alone, or in Hebrew and Old Testament)
New Testament language and literature (2 papers)
Church history (2 papers)
Biblical and historical theology (2 papers)
The philosophy of religion (2 papers) *or*
The history of religion (2 papers) *or*
The philosophy of religion (1 paper) *and*
The history of religion (1 paper)

The syllabus is that prescribed for the relevant subjects for the degree of Bachelor of Arts in theology. The first part of the examination in each subject may be taken in one year and the second in the subsequent year. Candidates who divide the examination must take the appropriate papers for the degree of Bachelor of Arts in theology.

2. Candidates for the qualifying examination will be excused those subjects or parts of subjects in which they have passed in their degree examination.

Graduates of other universities

3. In all cases candidates wishing to present a thesis connected with Old Testament studies must, before acceptance as candidates for the degree, have passed an examination in Hebrew of a standard equivalent to that required of candidates taking Hebrew as a three-year subject for the degree of Bachelor of Arts of the University. Similarly, candidates wishing to present a thesis connected with New Testament studies must, before acceptance as candidates for the degree, have passed an examination in Greek of a standard equivalent to that required of candidates taking Greek as a three-year subject for the degree of Bachelor of Arts of the University.

4. Candidates for the qualifying examination [regulation 1 above] will be excused those subjects or parts of subjects in which they have passed the equivalent in their degree.

All candidates

5. A candidate must not submit as his thesis one for which a degree has been awarded in the University of Leeds or in any other university, or which is under consideration for the award of a degree in another university; but he will not be precluded from incorporating in his thesis any part of such work provided that he states his desire to do so at the time of his application

for acceptance as a candidate and in the thesis itself indicates the part of the work so incorporated.

The thesis, which must be submitted not later than 1 May, should be typewritten and at least two copies should be supplied. The last day for entry for examinations in June is 29 January.

THE DEGREE OF MASTER OF EDUCATION

6. All candidates must undertake studies in education which shall include:
   (a) Theory of education, educational psychology and research methods in education, each for two years
   (b) Two of the following, one in the first year of the course and one in the second year, the subjects to be selected in consultation with the head of the department of education:
      (i) History of education
      (ii) Educational administration
      (iii) Sociology of education
      (iv) Comparative education
      (v) Curriculum studies

Not all the subjects in this list will necessarily be available in any one year, and new subjects may be added from time to time.

7. All candidates must attend for tuition in the first and second years of the course. At the end of each year they will be required to present themselves for examination on the subjects of their study.

The examination at the end of the first year will consist of one paper in each of the following: Theory of education and one other subject; together with such other tests—written or oral—as may be prescribed by the examiners from time to time. In addition, the course on research methods in education will be examined by continuous assessment throughout the first year. The examination at the end of the second year will consist of one paper on each of the following: Theory of education, educational psychology, and one other subject; together with such other tests—written and oral—as may be prescribed by the examiners from time to time.

No candidate who fails the examination at the end of the first year will be allowed to proceed with the course; and no part-time candidate who fails the examination at the end of the second year will be allowed to proceed to the dissertation.

All candidates will be required in addition to prepare a dissertation upon a subject approved by the Senate, and they must also present themselves for examination—written and, if necessary, oral—on the subject of the dissertation.

Full-time students will prepare this dissertation during the first two years of the course. Part-time students will normally prepare the dissertation after passing the examination at the end of the second year of the course.

In the award of a degree, consideration will be given to the candidate's results in the first-year and second-year examinations, to the dissertation and to his performance in the examination on the subject of the dissertation.

8. Persons who are not graduates and who apply to become candidates for the degree must:
   (a) present themselves for interview by the appropriate committee and subsequently take an examination designed as a test of fitness to proceed to study for a higher degree; this will not necessarily be confined to the subject in which the candidate wishes to proceed and will consist of:
      (i) a total of at least two written papers in not less than two separate subjects approved by the Senate
      (ii) an essay
      (iii) an oral examination.

It shall be in the discretion of the committee to exempt an applicant from the oral examination.

(b) attend for supervised study in the University in the first and second years of their course for a total of not less than four hours a week. In special cases the above attendance requirements may be modified by the Senate.

9. The examination for graduates who have not obtained a Graduate Certificate in Education or an equivalent qualification and who wish to become candidates for the degree of Master of Education will include an essay paper and if necessary an oral examination.

10. Not less than three months before the completion of his course the candidate must make application to the Registrar to be examined. Thereafter, but not more than six weeks before the end of the course, the candidate must submit two copies of a dissertation each of which must be accompanied by a short abstract to be bound at the front of the dissertation. Dissertations must be bound in a standard form, particulars of which may be obtained from the Registrar. The top copy (not the first carbon copy) of the dissertation approved for the degree will be retained in the University Library.

Normally there will be a period of six to eight weeks between the submission of a dissertation and the announcement of the result of the examination.

11. The names of candidates who have satisfied the examiners shall be arranged in alphabetical order, and distinction may be awarded for work of exceptional merit at the discretion of the examiners.

THE DEGREE OF MASTER OF LAWS
THE DEGREE OF MASTER OF LAWS IN COMMERCIAL LAW

The degree of Master of Laws and the degree of Master of Laws in Commercial Law are governed by Ordinance IV, articles 7 to 19, and relevant regulations which are set out in the prospectus *Faculty of Law*.

THE DEGREE OF MASTER OF PHILOSOPHY

All Candidates

12. Except in the case of graduates of the University accepted as candidates under the provisions of article 12 of Ordinance VIII, all candidates for the degree of M.Phil. shall be required:

(a) to be registered as students of the University

(b) to undertake an approved course of research or combination of research and advanced study, as prescribed by the appropriate committee, under the supervision of the head of the department concerned or any other person nominated for this purpose by the University

(c) to give evidence of satisfactory progress by such means as may be prescribed by heads of departments

(d) to satisfy the examiners for the degree.

13. A candidate must not submit as his thesis one for which another degree or similar qualification has been awarded, or which is under consideration for such an award; but he will not be precluded from incorporating in his thesis any part of such work provided that he states his wish to do so at the time of his application for acceptance as a candidate and in the thesis itself indicates the part of the work so incorporated.

14. In all subjects the examination for the degree may, at the discretion of the examiners include an oral examination and such other test as may be deemed appropriate.

15. Not less than three months before the completion of his course the candidate must make application to the Registrar to be examined. Thereafter, but not more than six weeks before the end of the course, the candidate must submit two copies of a thesis each containing a short abstract which should be bound at the front of the thesis. Theses must be bound in a standard form, particulars of which may be obtained from the Registrar. The top copy (not the first carbon copy) of the thesis approved for the degree will be retained in the University Library.

Normally there will be a period of six to eight weeks between the submission of the thesis and the announcement of the result of the examination.

16. The names of candidates who have satisfied the examiners shall be arranged in alphabetical order, and distinction may be awarded for work of exceptional merit.

Candidates in the Faculties of Arts, Education and Economic and Social Studies

17. Candidates undertaking advanced study as part of their course for the degree of M.Phil. must pass the prescribed examinations. (The examination syllabuses are set out on page C138)

18. Persons who are not graduates applying for acceptance for the degree under article 14 must:
(a) present themselves for interview by the appropriate committee and, if required, subsequently take an examination to establish their fitness to proceed to study for the degree. Such an examination may not be confined to the subject in which the candidate wishes to proceed
(b) attend for supervised study in the University for such periods as may be prescribed by the appropriate committee in each case.*

19. Graduates of other universities accepted under article 13 must attend in the University in the first and second years of study for frequent consultation with the head of the department or supervisor to the satisfaction of the appropriate committee.

Candidates in the Faculties of Science, Applied Science and Medicine

20. Candidates accepted under the provisions of articles 19 and 20 shall be required:
(a) to be registered as students of the University
(b) to maintain frequent personal contact with their supervisors and to attend in the University for periods as specified in individual cases by the appropriate committee
(c) to give evidence by examination or otherwise to the head of department concerned not later than the end of the third term of their period of study that their progress has been satisfactory.

THE DEGREE OF DOCTOR OF PHILOSOPHY

21. Before entering on the course of advanced study and research, a candidate must:
(a) submit to the Senate for its approval his proposed course of advanced study and research and present evidence satisfactory to the Senate that he is qualified to undertake the proposed course
(b) register as a student of the University and pay the prescribed fees for tuition.

22. Except with the special permission of the Senate, no candidate for the degree of Ph.D. may submit a thesis later than six years if engaged in full-time study, or later than eight years in part-time study, from the date of registration for the degree.

* Normally attendance will be on at least two days a week for a total of not less than six hours a week during the first year; and in subsequent years on at least two days a week for a total of not less than four hours a week, unless in special cases the Senate has agreed to modify these attendance requirements.

23. On completing the course of advanced study and research a candidate must:
(a) present a thesis on the subject of his advanced study and research, and satisfy the examiners that it contains original work worthy of publication, and that it is of a sufficient standard of merit to qualify for the degree of Doctor of Philosophy
(b) present himself for an oral examination, except in the case of mathematics, on matters relevant to his thesis and, if required, for a written examination, and satisfy the examiners in the examinations as well as in the thesis presented.

24. The application of a candidate for admission to the course for the degree must give particulars of his educational career and qualifications as well as the subject of his proposed course of advanced study and research. The application must be addressed to the Registrar. (A candidate is advised, before making application to the Registrar, to consult the head of the department which is concerned with the subject he proposes to study.)

25. A full-time candidate during his course must devote his whole time to his advanced study and research; but in exceptional cases the Senate is prepared to allow the candidate to undertake a limited amount of outside work which, in its judgment, would not interfere with the prosecution of his proposed course of advanced study and research.

26. A candidate must not submit as his thesis one for which another degree or similar qualification has been awarded, or which is under consideration for such an award; but he will not be precluded from incorporating in his thesis any part of such work provided that he states his wish to do so at the time of his application for acceptance as a candidate and in the thesis itself indicates the part of the work so incorporated.

27. It will be generally convenient that the candidate's course should begin at the opening of the academic year in October; but the Senate is prepared to consider applications for leave to begin the course at some other time.

28. Not less than three months before the completion of his course the candidate must make application to the Registrar to be examined. Thereafter, but not more than six weeks before the end of the course, the candidate must submit two copies of a thesis each containing a short abstract which should be bound at the front of the thesis. Theses must be bound in a standard form, particulars of which may be obtained from the Registrar. The top copy (not the first carbon copy) of the thesis approved for the degree will be retained in the University Library.

29. Normally there will be a period of six to eight weeks between the submission of the thesis and the announcement of the result of the examination.

THE UNIVERSITY OF LEEDS

Student Awards Financial Aid Medals and Prizes 1971-72

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Student Awards, Financial Aid, Medals and Prizes

General Regulations

1. In accordance with clause XXIII of its Charter, 'The University may from time to time found and endow fellowships, scholarships, exhibitions and other prizes for which funds or property may by bequest, donation, grant or otherwise be provided and may make regulations respecting the same and the tenure thereof'.

2. Foundations and endowments fall generally into the following categories:

(a) *Entrance scholarships*

Except for the Margaret James Scholarship and entrance scholarships tied to certain departments in the Faculty of Applied Science, separate reference to which is made in the following pages, the University has ceased to award entrance scholarships save in exceptional circumstances which include the case of an outstanding candidate who may not have support from any other source. A candidate eligible for a local authority award will not normally be given an entrance scholarship.

(b) *Senior scholarships*

These consist normally of a single non-recurrent payment of £10 and may be awarded to undergraduate students for outstanding academic performance in sessional examinations.

(c) *Graduate studentships*

These are available for postgraduate research or study and are awarded normally at predoctoral level to graduates or holders of qualifications deemed to be equivalent to a degree.

(d) *Fellowships*

These awards are given normally to candidates at postdoctoral level.

(e) *Medals and Prizes*

Awards of medals and prizes are made in accordance with specific regulations in the following pages.

(f) *Financial aid*

Students in need of financial help may be given grants by the Senate.

Advances from the Students' Aid Fund, established by the Council, may be made in the form of loans, in accordance with specific regulations in the following pages.

3. The foundations and endowments derive in very large part from the generosity and support of many benefactors both individual and corporate.

4. All University awards are held subject to compliance with the general and specific regulations on this and the following pages.

5. Awards shall be made by the Senate upon such conditions as the Senate may from time to time determine, provided that any variation of or addition to the object of the foundation or endowment shall not be of any validity until presented to the Trustees thereof and approved by the Privy Council.

6. Holders of awards will normally be required to follow a course of study in the University leading to a qualification of the University.

7. Awards will be made for not more than one year in the first instance, renewable normally to a maximum of three years on the recommendation of the appropriate head of department.

8. No award shall be made unless the candidate has attained a sufficient standard of merit. A candidate who has attained such standard may, if the Senate think fit, be elected to hold an award without emolument.

9. All awards are held subject to the good behaviour of the holder. The University reserves the power to terminate the tenure of an award for irregularity in attendance or for any other sufficient cause. The holder of an award who fails in any University examination for which he prepares in the University, or who is reported unsatisfactory in the aggregate of his terminal examinations during the session, will forfeit his award, unless his retention of it be specially allowed.

10. Holders of awards shall devote the whole of their time to their academic work and, except as indicated below, shall not undertake any remunerative employment during the period of tenure. Acceptance of paid employment outside the University unless with the approval of the Senate may involve the surrender of the award. Exceptions from this rule may be made for students engaged upon technological or professional studies provided that, in each case, the Senate is satisfied that adequate cause has been shown for such exception and approves the arrangements.

11. The Senate reserves power to declare any award vacant or to reduce its value on the grounds that the holder has previously or subsequent to his election acquired another award.

12. Holders of awards who are preparing for University degrees are required to present themselves for the degree examinations of the University of Leeds and are not allowed, except by the special permission of the Senate, to present themselves for the examinations of any other university.

Awards in all Faculties

Baillie Memorial Fund

A fund of £784 raised to commemorate the services to the University of Sir James Baillie, *O.B.E.*, Vice-Chancellor from 1924 to 1938, has been set aside at his express wish for the assistance of necessitous students.

Edward Baines Scholarships

1. The Edward Baines scholarships, founded in 1880, were established by the University in consideration of the sum of £3,000 which was raised to commemorate the public services of the late Sir Edward Baines. Two scholarships were established, one of which is awarded as a senior scholarship. The other scholarship is an entrance scholarship, which until 1933 was awarded by the Yorkshire Union of Institutes [originally the Yorkshire Union of Mechanics' Institutes, of which organisation Edward Baines was the first president, a position which he held for a period of 50 years].

2. This scholarship is intended for students of either sex who have done satisfactory work at evening technical schools or other evening classes. Candidates should in general have had at least two years' practical experience in workshops or other equivalent industrial experience. Candidates must have reached a good standard of general education.

3. Candidates must not be under 18 or over 30 years of age.

4. The scholarship will be of the value of £50 per year and is intended to cover tuition fees and leave a margin available for books, travelling expenses, etc. The scholarship will be awarded for one year in the first instance and may be renewable for a second and a third year in the event of satisfactory progress. The scholar will be required to pursue in the University a course of study approved by the Senate.

5. Applications must be made on forms which may be obtained from the Registrar. Candidates will be required to produce a nomination or recommendation from the managers of the school endorsed by their employers.

6. The award will be made by the Senate in September. An examination, oral or written or both, may be held at the discretion of the Senate.

Benjamin Bland Scholarship

1. The scholarship was endowed in 1933 by the late Miss Ann Bland, of Idle, Bradford, in memory of her father, the late Benjamin Bland of Idle. The donor bequeathed the sum of £1,500 to institute a scholarship to be known as 'The Benjamin Bland Scholarship' for the purpose of assisting students from the township of Idle to proceed to the University.

2. The scholarship is normally of the annual value of £50 and tenable for three academic years.

3. Candidates must have been born in the township of Idle and resident therein for the two years immediately preceding the award of the scholarship.

4. The award of the scholarship shall be made by the Senate after such examination or test of the candidates as the Senate may from time to time impose. The award of the scholarship is conditional on presentation of a satisfactory medical certificate from an officer appointed for the purpose by the University.

5. Any surplus funds in any particular year may be utilised by the Senate at their discretion in awarding a second scholarship to the next most deserving candidate as evidenced by the aforesaid examination or test.

6. The scholar or scholars elected will be required to pursue such courses in any of the Faculties of the University as may be considered most advisable by the Senate, having regard to the particular aptitude of the boy or girl in question and the desire of his or her parents or guardian.

7. Any vacancy in the scholarship will be duly announced in the public press, and applications should be sent to the Registrar not later than 31 January.

Boothman Scholarships

1. The Boothman scholarships, each of the annual value of £40, were founded in 1949 with a sum of money bequeathed to the University by the late Mary Elizabeth Boothman in memory of her husband David Boothman and her son David William Boothman. Income in any year which is not allocated may be added to the capital invested.

2. The scholarships, which are open on equal terms to men and women, are tenable in the first instance for one year but may be renewed annually, subject to a satisfactory report on the work of the scholar in the previous year.

3. The holders of the scholarships will each be required to take a course leading to a degree in the University. While no conditions are made as to the subjects of study, it is known that the donor wished to encourage the study of agriculture.

4. In making the award the University will take into consideration scholastic attainments, intellectual ability, and qualities of character and personality.

5. Candidates must submit a written statement giving particulars of their age, school career, public examination results, general interests and activities. This must be supported by a statement from the head master or head mistress of the school which they last attended.

6. The award will be made by the Senate after interview.

William Briggs Fund

1. In 1932 Dr. William Briggs endowed this fund with the sum of £2,100.

2. The purpose of the fund is to assist students whose means are otherwise insufficient to enter upon or to continue a course of study at the University.

3. Grants will be made by the Senate on the recommendation of the grants in aid committee.

William Arthur Crabtree Awards

1. The William Arthur Crabtree awards were established in 1949 with a sum of money bequeathed to the University by William Arthur Crabtree.

2. The awards will be made by the Senate in accordance with the general regulations relating to awards of the University (see page K1).

Frank Gott Scholarship

1. The scholarship was endowed in 1941 by Mrs. Beryl K. Gott in memory of her husband, the late Mr. Frank Gott, Lord Mayor of Leeds in 1917. It is not administered by the University but by an independent body of trustees.

2. The scholarship is awarded to an honours graduate of any university situated in Great Britain or Northern Ireland or in one of the Colonies or Dominions of Britain who shall desire to commence or shall have commenced some form of postgraduate study at the University of Leeds.

3. Women are not eligible for the Frank Gott scholarship.

4. The award is as a rule biennial. The scholarship is tenable for two years and the holder is required to pursue in the University a course of advanced study or research which has been approved by the Senate.

5. The annual value of the scholarship is approximately £80.

6. The award is made ordinarily in the month of June. Applications must be addressed through the Registrar to the trustees of the Gott Bequest who will require evidence of the British and Christian parentage of the applicant in accordance with the terms of the bequest. Each applicant must state the course of study which he proposes to follow.

7. The scholar will be required to prosecute his advanced study or research to the satisfaction of the Senate and to present to the Registrar before 1 June of the year following the award a report of the work done. At the expiration of the full period of tenure a final report shall be submitted to the Registrar.

Joe Haley Scholarships

1. The Joe Haley scholarships were established in 1948 under the terms of the will of Mrs. Annie Haley, who bequeathed £2,000 for the founding of one or more scholarships open to the children of parents resident at the time of the award in the borough of Dewsbury.

2. The regulations for the award of the scholarships, which are entirely within the discretion of the Vice-Chancellor for the time being, are as follows:

3. Each scholarship, of a value to be determined by the Vice-Chancellor, shall be awarded to the child of a parent resident at the time of the award in the borough of Dewsbury.

4. Holders of scholarships shall pursue a full-time course of study for a first degree of the University or shall engage in full-time research.

5. The period of tenure of a scholarship shall be one year in the first instance. Renewal will be subject to a satisfactory report upon the scholar's work.

6. In making an award, preference will be given to a candidate who proposes to study a subject connected with one of the staple trades of Dewsbury.

7. Income not expended in any year may be added to the capital funds of the scholarship or used for payments of maintenance grants to students who can comply with the requirements set out above.

Harvey Travel Bursaries

1. In 1956 the late Dr. T. E. Harvey, a former student of the Yorkshire College, honorary graduate of the University, member of the Court for forty years and a representative of the combined universities in Parliament for eight years, bequeathed to the University a sum of £1,000 'to provide holiday bursaries for students especially with a view to travel abroad not to be awarded by competition'.

2. All full-time students, graduate or undergraduate, in any faculty of the University are eligible for the award of the bursary; no student who has already held an award from the fund will be eligible for a further award.

3. The bursaries will be awarded by the Senate on the recommendation of the scholarships committee and will be tenable during the long vacation. Candidates may be required to submit themselves for interview.

4. Applications giving particulars of the proposed programme of travel should be received not later than 30 April; candidates wishing to apply for both the Mouat Jones and Harvey Travel Bursaries may do so in one letter of application.

Hastings Senior Scholarships for the Universities of Leeds, Sheffield and Hull, tenable at The Queen's College, Oxford

1. Hastings senior scholarships will be awarded by Queen's College, to men whom the Governing Body judges to be of sufficient merit and fitness, after or without examination as the Governing Body may determine.

2. Successful candidates will be required to read at Oxford either for an Honour School or for an advanced degree (i.e. B.Litt., B.Sc., B.D., B.C.L., B.Phil. or D.Phil.) or to pursue such other course of study as the Governing Body may determine.

3. The normal maximum value of a scholarship shall be £750 per annum. Subject to the consent of the Governing Body a scholarship may be held with other awards or grants up to a maximum value of £100 per annum, but the annual value of a scholarship will be reduced to £100 if the scholar is awarded a state studentship, an S.S.R.C. studentship or an S.R.C. grant. In addition the Governing Body may from time to time make travel grants to scholars for the purpose of defraying expenses of travel and maintenance in connection with their work or study whether in the United Kingdom or elsewhere.

4. The scholarships are confined to persons who have passed with honours all the examinations for the Bachelor's degree at the University of Leeds, Sheffield or Hull.

5. One scholar may be elected each year. The Vice-Chancellor of Leeds, the Vice-Chancellor of Sheffield and the Vice-Chancellor of Hull may each recommend in writing to the Provost one or more candidates for consideration before 15 March. The formal election of the scholar will normally be made in July, but the Governing Body will before 1 February inform the successful candidate of its intention to elect him.

6. The scholar will be elected in the first place for one year, and will be re-elected for a second year if the Governing Body is satisfied with his industry, good conduct and progress. In exceptional circumstances the scholarship may be renewed for a third year.

7. A scholar shall be subject to such regulations as to residence, instruction and discipline as the Governing Body may from time to time determine.

8. Any scholar who shall marry without the consent of the Governing Body or be elected to a fellowship or cease to be a member of the College, shall thereby vacate his scholarship, and no scholar shall accept any office or undertake any work which in the opinion of the Governing Body is incompatible with the full performance of his duties as a scholar.

9. The Governing Body may grant leave of absence (with or without emoluments) to a scholar in case of illness or for other sufficient reasons. If the scholar received no emoluments during such a period of absence it shall be lawful for the Governing Body to deduct a part or the whole of such a period in calculating the length of tenure of his scholarship as defined in paragraph 6 above.

Margaret James Entrance Scholarship

1. The Margaret James scholarship was founded in 1949 under a bequest made to the Workers' Educational Association by a former member, Miss Margaret James of Nottingham.

2. The scholarship shall be of the value of £50 per annum and, subject to satisfactory reports on the holder's conduct and progress, shall normally be tenable for three years.

3. The scholarship may rank for supplementation by the local education authority at its discretion provided that the holder has given evidence of sufficiently high academic qualifications. The supplementary award, if made, increases the value of the scholarship to an amount estimated to be adequate to cover the full cost of a university course.

4. The scholarship shall be awarded by the Senate on the recommendation of the Workers' Educational Association.

5. Candidates shall furnish such evidence as may be required of their educational qualifications and financial circumstances. They may be required to attend for an interview.

6. The scholarship shall be awarded to a woman student who was prevented by financial circumstances from going to a university straight from school and who has since studied in classes arranged by the Workers' Educational Association, independently or in co-operation with other bodies.

7. The scholarship will be awarded to a candidate able to satisfy the requirements for entry upon a degree course not later than the beginning of the session following the award.

8. The successful candidate will be required to read for a qualification of the University.

Mouat Jones Travel Bursaries

1. On the retirement of Dr. B. Mouat Jones from the Vice-Chancellorship of the University in 1948, it was decided to raise a fund to mark appreciation of his services during his ten years' tenure of office. Dr. Mouat Jones expressed the wish that any money thus raised should be devoted to assisting students to travel abroad during a vacation. Contributions were therefore invited for the purpose of establishing the Mouat Jones travel bursaries fund and a sum of approximately £3,200 was subscribed.

2. All full-time students, graduate or undergraduate, in any faculty of the University are eligible for the award of a bursary but no student who has already held such an award will be eligible for a further award from the fund. Bursaries may not be held for the purpose of satisfying the regulations of any of the schools of linguistic studies concerning attendance at a foreign university.

3. The value of a bursary will not normally exceed £30, and the total awards in any one session will be limited generally to £90.

4. The bursaries will be awarded by the Senate on the recommendation of the scholarships committee. Candidates may be required to submit themselves for interview.

5. Applications giving particulars of the proposed programme of travel should be received not later than 31 January from those wishing to hold the award in the Easter vacation and not later than 30 April for those wishing to hold the award in the long vacation.

Leeds City Council Fund

1. The fund was founded by the Council of the University in 1892 out of the sum voted by the Council of the City of Leeds and up to 1912 provided for the award of an entrance scholarship. In 1912 the Council, on the recommendation of the Senate and with the approval of the city education committee, decided to utilise the money in extending the courses of deserving and necessitous Leeds students in attendance at the University.

2. In recommending candidates for appointment, the Senate will be guided by the position held by the candidates in their terminal examinations, and also by their general work and conduct. The need of the applicants for financial assistance will also be taken into consideration.

Frank Parkinson Fund

In 1936 Mr. Frank Parkinson, a former student and Baines scholar gave to the University the sum of £50,000 to endow a scholarship fund. In announcing his gift he stated that he had long cherished the ambition to do something to ensure that the kind of assistance which was extended to him as a student should be available to a large number of Yorkshire students, and especially those who might otherwise be unable to contemplate a university career, or who, in spite of proved ability, might be unable to carry on postgraduate research work through lack of means.

The income from the fund amounts to approximately £2,375 a year. It is intended to assist (1) persons of proved ability who are in need of financial help to enter upon or to continue their studies at the University; (2) distinguished graduates of the University who wish to pursue research, further study or a course of postgraduate training and who are unable to do so without financial help.

The fund is administered by a committee set up by the Senate which includes in its membership representatives nominated by the Council. The procedure of the committee is governed by regulations made by the Senate and approved by the Council and by Mr. Parkinson.

The monetary value and number of the studentships, scholarships or grants awarded to individual candidates will vary according to circumstances.

The following regulations apply to all candidates:

1. Beneficiaries under the fund must be born of British parents who have been domiciled in Yorkshire for a period of not less than ten years. The years of domicile need not be successive but must amount to ten in the aggregate.

2. All candidates must supply proof of eligibility in respect of the British nationality and Yorkshire domicile of parents.

3. Parents or guardians of candidates will be required to furnish a confidential statement of their financial position with such evidence in support as the committee may deem desirable.

4. Candidates must give references as to character from not less than two persons who shall not be relatives of the candidate. They must furnish a written personal statement concerning their general interests and activities including sports, their proposed course of study and their intended career after completing their studies.

5. Candidates are informed that in making the awards the committee will not only take into consideration intellectual and scholastic attainments and ability but will also attach the greatest importance to qualities of character, personality and promise of leadership.

6. The amount of the studentships, scholarships or grants will normally be determined with due regard to the needs and means of the successful candidates. The scope of the fund will not be limited to the payment of fees and the provision of books and other necessary equipment but will, in appropriate cases, be extended to include the maintenance or part maintenance of the successful candidate.

7. The awards will be made after interview of a selected number of candidates who shall be required to attend at the University for this purpose.

8. Successful candidates for entrance and senior awards will normally be expected to pursue a course as whole-time students proceeding to a degree or diploma.

9. Candidates of proved ability and promise who do not desire to take a degree or diploma but wish to attend the University as whole-time students for one or two years may apply for assistance if otherwise eligible.

10. Candidates desiring to enter the University must supply evidence of intellectual qualifications including the results of any public examinations they have taken. In the case of undergraduates, the results of any University examinations will be taken into account.

11. All candidates included in this section must supply information regarding their school careers, together with a statement from the heads of the school in which they spent the last three years of school life. Candidates engaged in a profession, business or industry should also supply evidence of their experience supported by a letter of recommendation from the employer.

12. Scholarships and exhibitions of varying amounts will be awarded each year.

13. Entrance scholarships will normally be awarded for three years. The continuation of the scholarship each year after the first will be subject to a satisfactory report on the work of the scholar in the previous year.

In the case of undergraduates already in residence at the University, scholarships will normally be awarded for one year in the first instance but may be renewed for a second year.

14. Fellowships, studentships or postgraduate grants will normally be made for a period of one year and may be renewed for a further period not exceeding two years, subject to a satisfactory report at the end of each year.

15. The research or further study may be carried out either in the University or in other approved universities or institutions.

16. Grants will normally be made to enable candidates to undertake research but they may also be awarded to candidates who wish to prepare themselves by a course of training for an administrative or professional career.

17. In selecting candidates the committee will have regard to the performance of candidates at the degree examinations and the reports of heads of departments.

Postgraduate Studentships from University funds

A limited number of University studentships equivalent in value to a State Studentship may be offered annually and will ordinarily be awarded to students who have distinguished themselves in the final examinations of the University. In the election to studentships, preference will ordinarily be given to students who are prepared to undertake advanced study or research with a view to presenting themselves for a higher degree of the University of Leeds.

Postgraduate Studentships from University funds for graduates of other Universities

1. A limited number of research studentships, not exceeding three, is offered annually to graduates of universities other than Leeds. These studentships, each of the value of £575 a year plus fees, will be tenable for research in all faculties and will be renewable annually. Maximum tenure is three years.

2. An applicant should be under 30 years of age on the first day of October of the academic year in which the studentship will be taken up. An older candidate may be considered if the interval between graduation and taking up the studentship is not more than one academic year.

3. Applications should be submitted on forms obtainable from the Registrar, The University of Leeds, Leeds, LS2 9JT. The closing date for receipt of completed application forms is 1 March.

Sadler Memorial Fund

The committee formed to obtain for the University by subscription a portrait of Sir Michael Sadler, *K.C.S.I.*, Vice-Chancellor from 1911 to 1923 presented to the University the surplus fund amounting to £730 for investment to form the nucleus of a fund for assisting necessitous students.

Sir Swire Smith Fellowship

1. The fellowship commemorates the services rendered to national education by the late Sir Swire Smith, Doctor of Laws *honoris causa*, a member of the Court of the University, Member of Parliament for Keighley, and a member of the Royal Commission on educational instruction, 1881-4.

2. For its endowment a sum of about £3,000, collected by public subscription chiefly through the efforts of Sir John Clough and Mr. Augustus Spencer, was placed in the hands of the University in May, 1920, to be held in trust for the maintenance of a fellowship.

3. The fellowship is awarded to a graduate in any faculty of the University who has given evidence of qualifications for undertaking advanced work.

4. The award as a rule is biennial. The fellowship is tenable for two years and the holder is required to undertake and pursue a course of advanced study and research approved by the Senate.

5. The annual value of the fellowship is not less than £150 [and may be increased to the value of a state studentship awarded by the Department of Education and Science].

6. The award of the fellowship is made ordinarily in the month of June. Applications must reach the Registrar on or before 1 May preceding the date of the award. Each applicant must state the course of study which he proposes to follow and the university or other institution for research to which he proposes to attach himself during the tenure of the fellowship.

7. The fellow is required to devote the whole of his time to the pursuit of the research in question, and to present a report of the work done to the Senate, such report to be sent to the Registrar before 1 June of the year following the award of the fellowship. At the expiration of the full period of tenure a final report shall be submitted to the Senate.

Awards in the Faculty of Arts

Edward Baines Scholarship

1. The Edward Baines scholarship, founded in 1880, was established by the University in consideration of the sum of £3,000 which was raised to commemorate the public services of the late Sir Edward Baines. One half of the sum annually devoted to this purpose is awarded by the University in the form of a senior scholarship tenable by candidates who have attended a public elementary school within the City of Leeds; the other half is awarded in the form of an entrance scholarship.

2. The scholarship is tenable in the Faculties of Arts, Science or Applied Science except in textile industries.

Bodington Memorial Fund

1. The Bodington memorial fund commemorates the work of the late Sir Nathan Bodington as principal of the Yorkshire College and first Vice-Chancellor of the University of Leeds. It is devoted to the encouragement of advanced study in Greek and Latin including language, literature, history, philosophy and archaeology among graduates of the University.

2. The scheme for the administration of the fund includes the following provisions:

(a) An award or awards will be made annually by the University whenever there are competent applicants.

(b) The income will be allowed to accumulate when no awards are made, the accumulations to be treated as current year's income.

(c) The award or awards will take the form of a fellowship, scholarship, prize or grant, or any combination of these as may seem from time to time practicable and desirable.

(d) The annual income available for award is approximately £45.

3. Since the foundation of the fund, grants have been made for the purchase of books and for visits to libraries or other centres of research. Awards of money may however be made for any other objects cognate to the trust. It is hoped that when the accumulated funds allow, a fellowship or scholarship tenable for one year may be awarded to a graduate who has published or prepared for publication a work of distinction in the field of classical learning.

Emsley Scholarship

1. The scholarship was endowed in 1886 by the late Thomas Emsley, Esq., of Burley-in-Wharfedale, who bequeathed £1,000 for the purpose of founding one or more scholarships in the Yorkshire College.

2. The scholarship is tenable in the Faculties of Arts, Science or Applied Science except in textile industries.

Luther and Ernest Gaunt Award in Music

1. Mr. Ernest Gaunt of Pudsey, who died in 1967, bequeathed to the University a sum of money to be used for the furthering of the love and appreciation of music among students of the University, to be called the Luther and Ernest Gaunt award in music.

2. The award is of the annual value of about £85 but a smaller award may be made.

3. The award is tenable in the Department of Music.

4. The holder shall either (a) have completed the degree of Bachelor of Arts in music or hold an equivalent qualification and have registered for a further course of study leading to a higher degree in music or (b) have completed the first year of three years study for the degree of Bachelor of Arts in music.

5. A candidate shall be a competent performer on either the violin or the piano.

6. Preference shall always be given to an eligible student normally resident in the parliamentary division of Pudsey.

7. The award shall be made by the Senate on the recommendation of the head of the Department of Music and in accordance with the general regulations relating to awards of the University.

8. If in any year there is no suitable candidate the interest accruing in that year shall be added to the capital of the fund.

James Graham Memorial Scholarship

See 'Awards in the Faculty of Economic and Social Studies'.

Blanche L. Leigh Award in Music

1. Mrs. Percy Leigh presented to the University in 1931 a sum of money for the establishment of a scholarship or scholarships in music.

2. The award is of an annual value of about £85.

3. Holders of awards will normally be required to follow a course of study in the University approved by the head of the Department of Music and leading to a qualification of the University.

4. The award will be made by the Senate on the recommendation of the head of the Department of Music and in accordance with the general regulations relating to awards of the University.

Leighton Exhibitions

1. The exhibitions were instituted in 1894 by the trustees of the late Mrs. Isabel Leighton of Leeds.

2. Candidates must be registered students of the University of not less than two terms' standing. They must have attended a primary school or schools in the city of Leeds for not less than three years.

3. Three exhibitions are ordinarily offered each year, each of the annual value of £10, and are tenable for two years and renewable for two years subject to the reports on the student's work during the first year of tenure being satisfactory.

4. The exhibitions will not be awarded on any special examination, but those students who wish to become candidates are required to send in their names to the Registrar not later than 1 May each year.

5. In recommending candidates for appointment, the Senate will be guided by the position held by the candidates in their terminal examinations, and also by their general work and conduct. The need of the applicants for financial assistance will also be taken into consideration.

6. The exhibitions are tenable by students pursuing any course of study in the Faculties of Arts, Science and Applied Science, and may, with the consent of the trustees be held in conjunction with any other scholarship.

7. The election will be made in the third term of the session, provided that there be suitable applicants.

John Rutson Scholarship

1. The scholarship was founded by Mr. Henry Rutson of Northallerton in memory of his brother Mr. John Rutson. It has been assigned to the Faculty of Arts for the encouragement of research, and the scholar will be chosen from among those who have shown promise of ability to conduct such research.

2. The scholarship is of the annual value of about £70 [which may be increased to the value of a state studentship awarded by the Department of Education and Science] and is tenable for one year but may be renewed for one year more.

3. The successful candidate shall be required to undertake advanced study or research in the University or in some other university or learned institution or under suitable guidance in a manner approved by the Senate.

4. The scholar shall also be required to furnish a report of the work done by him or her during the term of the scholarship, such report to be sent to the Registrar before 1 June of the year following the award of the scholarship in order that it may be laid before the Senate.

Salt Scholarship

1. The scholarship was founded by the late Sir Titus Salt, Bt., in 1875.

2. Candidates must be scholars or registered students of the University in at least their sixth term.

3. The value of the scholarship is £20 a year and it is tenable for two years.

4. The scholarship is tenable in the Faculty of Arts and the scholar elected will be required to continue a course of study at the University preparatory for a degree in arts of the University of Leeds. In the event of graduation at the end of the first year of tenure, the scholar will be required to pursue a course of postgraduate study satisfactory to the Senate.

Lord Snowden Travel Bursaries

1. The Lord Snowden endowment fund, established with monies subscribed to commemorate the late Right Honourable Philip, Viscount Snowden of Ickornshaw, was given to the University for the teaching or for the encouragement, assistance or advancement of music in the University.

2. The annual income from the fund, approximately £120 a year, has been allocated for the award of travel bursaries and of an annual prize.

3. (a) The Lord Snowden travel bursaries will be awarded annually and will be of a value not exceeding £100.

(b) The awards will be open to candidates for the degree of Bachelor of Arts in music or to those who are taking music for three years in the course leading to the degree of Bachelor of Arts in a two-subject scheme. Normally, preference will be given to students who are in the first or second year of their course.

(c) Candidates must submit with their applications plans of their proposed travel, indicating how these will serve to further their musical education.

(d) Applications should reach the Registrar not later than 31 March each year.

William Summers Scholarship

1. The scholarship was founded by Mr. and Mrs. Buckley, of Ryecroft Hall, Audenshaw, near Manchester, in memory of William Summers, Esq., late member of Parliament for Huddersfield, and for many years a member of the Court of the Victoria University.

2. Candidates for this scholarship must have been resident in the parliamentary borough of Huddersfield during one full year, or must have attended a school in the said borough for the same period.

3. The scholarship is tenable in the Faculty of Arts and the scholar elected will be required to pursue a course for the degree of Bachelor of Arts with honours.

Charles Edwyn Vaughan Fellowship

1. The late Emeritus Professor C. E. Vaughan bequeathed to the University a sum of £3,500 for investment for the purpose of founding a postgraduate research fellowship.

2. The annual value of the fellowship will be not less than £150 [and may be increased to the value of a state studentship awarded by the Department of Education and Science]. The fellowship is awarded to such graduates in the schools of English, history or economic studies, as shall be judged the most fit and proper to receive it, and to be capable of undertaking special research in English, or history, or economics.

3. The award as a rule is made every two years. The fellowship is tenable for two years and the holder is required to undertake and pursue a course of research approved by the Senate.

4. The award of the fellowship is made ordinarily in the month of June. Applications should reach the Registrar on or before 1 May preceding the date of the award. Each applicant must state the course of study which he proposes to follow and the university or other institution for research to which he proposes to attach himself during the tenure of the fellowship.

5. The fellow is required to devote the whole of his time to the pursuit of the research in question, and to present a report of the work done to the Senate, such report to be sent to the Registrar before 1 June of the year following the award of the fellowship. At the expiration of the full period of tenure the holder shall submit a final report to the Senate.

6. In the event of no candidate of sufficient merit and distinction presenting himself in any year, the interest available for that year will be expended in the purchase of books for the libraries in the schools of English, history and economic studies.

Charles Wheatley Scholarship

1. The scholarship was established by the University in 1903, in consideration of the sum of £1,500 given by the Misses Robinson of Mirfield, and Mrs. Steele of Kettering, in memory of the late Charles Wheatley, Esq., of Mirfield. In case of equality of candidates, a preference is to be given to residents in Mirfield.

2. The scholarship is tenable in the Faculty of Arts and the scholar elected will be required to pursue a course for the degree of Bachelor of Arts or Bachelor of Laws of the University.

Joseph Wright Studentships

1. The studentships were founded in 1963 from the estate of Joseph Wright, Professor Emeritus of Comparative Philology in the University of Oxford, author of the English Dialect Dictionary, and Doctor of Letters *honoris causa* of this University, who died in 1930.

2. The income of the fund shall be used for the provision of postgraduate studentships in the English and German languages and literatures.

3. The value of each award shall be equal to that of a university postgraduate studentship.

4. The studentships shall be tenable for advanced study or research in the School of English or the Department of German Language and Literature. They shall be awarded for one year, renewable annually, the maximum tenure being three years.

5. The studentships shall be awarded by the Senate on the recommendation of the head of the appropriate department.

6. Applications should be submitted on forms obtainable from the Registrar, The University of Leeds, Leeds, LS2 9JT. The closing date for receipt of completed application forms is 1 March,

Awards in the Faculty of Economic and Social Studies

James Graham Memorial Scholarship

1. The scholarship was endowed with the sum of £1,200 in 1933 by Mrs. James Graham of Headingley, Leeds, in memory of her husband, Dr. James Graham, who was for twenty-five years Director of Education in the city of Leeds.

2. The scholarship is of the annual value of £40, or such annual income as the investment of the above sum may produce, and is open to students intending to read for a degree in the Faculty of Arts, the Faculty of Economic and Social Studies or the Faculty of Science. It may be held for one, two or three years at the discretion of the Senate.

3. The scholarship is open to candidates whose parents live or have lived in Leeds, and who have attended a primary or secondary school in Leeds for at least three years, provided that they have complied with the regulations of the Joint Matriculation Board for entry upon a degree course.

4. The award of the scholarship shall be made by the Senate after such examination of the candidates as the Senate may from time to time impose. In the event of equality amongst the candidates preference will be given to a candidate desiring to proceed to a degree in commerce.

5. Any vacancy in the scholarship will be duly announced in the public press and to schools in Leeds six months before such vacancy occurs.

Charles Edwyn Vaughan Scholarship

See 'Awards in the Faculty of Arts'.

Wheeler Memorial Scholarship

1. The scholarship was founded in 1946 to commemorate the services to the University and the practical interest in the social work of the city of Leeds of Archibald Edward Wheeler, Registrar from 1912 to 1944.

2. The endowment of £1,000 was provided by contributions from members of the Leeds Luncheon Club, the Leeds Rotary Club, the University and the Leeds Young Men's Christian Association. The annual income is approximately £30.

3. The scholarship is open to students entering upon a course of study in the University leading to a degree in social studies; the award will be made in the first instance for one year and may be renewed. If there is no suitable candidate who is entering on the first year of study, the scholarship may be awarded to a student who has already completed the first year of the course or who is undertaking postgraduate study in the field of social studies.

4. If an award is not made in any year the income from the endowment may either accumulate or be used for subsequent awards to undergraduate or postgraduate students.

Awards in the Faculty of Law

Kenneth Hargreaves Studentships in Law

1. The studentships were instituted in 1963 by Brigadier Kenneth Hargreaves, *C.B.E.*, *T.D.*, *D.L.*, a representative of the Clothworkers' Company on the Court of the University.

2. The studentships may be awarded for the purpose of assisting deserving students to complete their studies in the Faculty of Law or to prosecute advanced study and research in the Faculty of Law, preference being accorded to students in the field of commercial law.

3. The number of studentships awarded each year and the value of each will depend upon the number of suitable candidates and the amount of income available. They are awarded for one year and may be renewed. No award shall be made if there is no candidate of sufficient merit.

4. The studentships are awarded by the head of the Department of Law in consultation with the trustees of the Hargreaves Trust.

5. The regulations may be varied by the Senate subject to approval by the trustees of the Hargreaves Trust.

6. Application should be made to the head of the Department of Law, The University of Leeds, Leeds, LS2 9JT.

William Harrison Graduate Scholarships

In 1957, William Harrison, LL.D., furnished an endowment for the benefit of students and graduates of the Faculty of Law, part of which may from time to time be made available for awards to assist graduate students of outstanding ability to undertake approved studies in this University or elsewhere.

These awards will be known as the William Harrison Graduate Scholarships and will be awarded by the Senate on the recommendation of the head of the Department of Law.

Charles Wheatley Scholarships

See 'Awards in the Faculty of Arts'.

Awards in the Faculty of Science

Akroyd Scholarships

1. The scholarships are maintained by funds accruing from the Akroyd Trust and are intended for the encouragement of the study of natural science. They are tenable for three years in the Faculties of Science or Applied Science.

2. Women are not eligible for the Akroyd scholarships.

Edward Baines Scholarship

See 'Awards in the Faculty of Arts'.

Charles Brotherton Awards

These awards derive from the trust deed of Charles Frederick Ratcliffe Brotherton, Doctor of Laws, *honoris causa*, of the University who died in 1949. A sum of money, normally £600 each year, has been put at the disposal of the University, by the trustees.

1. Holders of awards will normally be required to follow a course of study in the University leading to a qualification of the University in the Faculties of Science and Applied Science.

2. The value of each award will be decided by the Senate.

3. The awards will be made for not more than one year in the first instance, renewable annually to a maximum of three years on the recommendation of the appropriate head of department.

4. The number of awards made each year shall be decided by the Senate.

5. Awards shall be made by the Senate in accordance with the general regulations relating to awards of the University.

Brown Scholarships

1. The scholarships were endowed in 1877 by the late Henry Brown, Esq., of Bradford and Rawdon, who bequeathed £5,000 to the Yorkshire College for the purpose of founding five or more scholarships, to be called the Brown scholarships, for students attending the said college and receiving instruction in the various branches of those sciences which are applicable to the industrial arts.

2. Other things being equal, preference will be given to candidates who have declared their intention of entering some industry, instruction in the principles of which is given in the University, or of engaging in the teaching of science. In the case of equality of candidates a preference will be given to residents in Bradford or natives of Bradford.

3. The scholarships are tenable in the Faculties of Science or Applied Science.

Henry Ellison Fellowship

1. The Henry Ellison research fund, endowed in 1943 by Mr. Henry Ellison of Calverley, Leeds, is for the promotion of research in pure and applied chemistry and in physics in the University.

2. The fellowships are of an annual value of about £530 plus fees, restricted to graduates of the University and normally tenable for three years; they are intended to enable promising graduates to gain a training in scientific research.

3. Any income not expended in any year may be added to the capital of the fund.

Emsley Scholarship

See 'Awards in the Faculty of Arts'.

Walter Garstang Fund

1. The late Emeritus Professor W. Garstang bequeathed to the University the sum of £600 for the endowment of awards to enable meritorious students of the Department of Zoology to take approved vacation courses of study or research in marine or freshwater biology; and in particular to enable undergraduate students to attend vacation courses at the Plymouth laboratory of the Marine Biological Association or at the Windermere station of the Freshwater Biological Association.

2. Grants may be made from the residue of the income in any year towards personal travelling expenses of postgraduate or honours students pursuing approved hydro-biological investigations away from Leeds.

3. The awards will be made annually by the Senate on the recommendation of the head of the Department of Zoology. The value of an award will not be fixed but will be assessed separately in each case.

4. The annual income from the fund is approximately £18; income not spent in any year may be used for making additional awards in a subsequent year.

James Graham Memorial Scholarship

See 'Awards in the Faculty of Economic and Social Studies'.

Imperial Chemical Industries Ltd., Research Fellowships

1. Fellowships have been instituted by Imperial Chemical Industries Ltd., for research in bacteriology, biochemistry, biomolecular structure, botany (plant biochemistry and biophysics), chemical engineering, chemistry, leather science, food science, chemotherapy, colour chemistry and dyeing, engineering (civil, electrical or mechanical), fuel and refractories, geology (including geochemistry), metallurgy, mining (selective flotation and geophysical surveying), pharmacology, physics, physiology, textile industries [chemistry of high polymers (keratin and man-made fibres), textile technology and textile engineering].

2. Appointments to these fellowships will take effect on 1 October. The normal tenure of a fellowship will be for two years and may be renewed for one or more years. The question of renewing a fellowship will normally be considered towards the end of the second year of tenure.

3. The normal value of each fellowship will be between £1,175 and £1,400 a year and up to £1,680 in the case of engineers and technologists where industrial experience or other special circumstances warrant it, but the University at its discretion may fix a different stipend. The stipend of a particular candidate will depend on his qualifications. In appropriate cases fellows will be admitted to the Federated System of Superannuation for Universities, and any necessary adjustments in their stipends will be made.

4. The fellowships are open to men and women who have already had experience of postgraduate research; other things being equal, preference will be given to candidates under twenty-eight years of age on taking up the appointment. There is a general expectation that all I.C.I. fellows should have obtained a Ph.D. degree or have had equivalent research experience and that the tenure of a fellowship should not normally be used for studying for a Ph.D. degree.

5. A fellow will be required to undertake a limited amount of teaching.

Leighton Exhibitions

See 'Awards in the Faculty of Arts'.

Lowson Scholarship

1. The scholarship was endowed in 1943 by Mr. W. Lowson, a member of the staff of the Department of Chemistry since 1902. The scholarship has for its object the encouragement of interest and proficiency in the subject of inorganic chemistry.

2. It is awarded on the recommendation of the professor of inorganic and structural chemistry to a graduate of the University of Leeds or of some other university to enable him to carry out research in the Department of Inorganic and Structural Chemistry of the University of Leeds. Preference will be given to candidates whose proposed research involves analytical chemistry.

3. The scholarship is of the value of approximately £500 plus fees and is tenable for one session in the first instance with the possibility of renewal.

J. H. Priestley Memorial Fund

1. The J. H. Priestley memorial fund was established by former students of the Department of Botany and by his friends and colleagues as a tribute to the work of Joseph Hubert Priestley, professor of botany in the University from 1911 to 1944, and as a mark of the esteem in which he was held. The fund, amounting to approximately £800, was given to the Council to hold in trust, the income to be used for awards to enable students of the department to further their botanical studies.

2. The awards will be made by the Senate on the recommendation of the head of the Department of Botany, for specific purposes such as field studies, visits to other institutions or purchase of special books or apparatus. Awards can be made from the current or accumulated income of the fund at any time during the session. The value of an award will not be fixed but will be assessed separately in each case.

3. The recipients of awards must sign their names in the book kept in the Brotherton library for this purpose and must state the use to which the award is to be put.

4. The annual income available is approximately £24. Income not spent in any year may be used for making additional awards in a subsequent year.

5. Applications for awards must be sent to the Registrar together with a statement of the purpose for which the award will be used.

Richard Reynolds Scholarship

1. The scholarship was endowed in 1928 by the late Alderman F. C. Clayton of Birmingham, who served his apprenticeship with the firm of Harvey and Reynolds, manufacturing chemists, Leeds, during the years 1859 to 1864. The donor bequeathed £2,000 for the purpose of founding a scholarship to be called the Richard Reynolds Scholarship in recognition of the valuable training received by him from Richard Reynolds during his apprenticeship.

2. The scholarship, of the annual value of approximately £100, is tenable for one year and may be renewed for a second or third year.

3. The scholarship is open to graduates of the University who have graduated in the Faculty of Science or the Faculty of Medicine or to pharmaceutical chemists who have taken their courses for the qualifying examination within the University.

4. The scholar is required to pursue research in some branch of chemistry or pharmacy in the University of Leeds, under the direction of the head of the department, and to present a report of his work, such report to be sent to the Registrar before 1 June.

5. The appointment will be made at the end of the third term.

Arthur Smithells Scholarship

1. The Scholarship was founded in 1926 from the balance, amounting to £2,079, of a fund raised to commemorate the services rendered to the University by the late Emeritus Professor Smithells, professor of chemistry from 1885 to 1924. Its object is the elucidation by scientific research, in any department of the University, of the phenomena of combustion in the widest sense.

2. The scholarship, of the approximate annual value of £100, is tenable in the first instance for one year, and may be renewed for a similar period or periods. The appointment is made at the end of the third term.

3. The scholarship is open to graduates of the University. All candidates are required, when sending in their applications, to specify the subject in which they propose to undertake research.

4. The scholar is required to pursue research in a department of the University of Leeds, under the direction of the head of the department, and to present a report of his work, such report to be sent to the Registrar before 1 June.

Awards in the Faculty of Applied Science

Ackroyd Memorial Fellowship

1. By a deed executed in 1918, in memory of the late J. E. Ackroyd, Esq., the relatives of Mr. Ackroyd placed in the hands of the University a sum of £4,000 to be held in trust for the maintenance of a scholarship or fellowship for the promotion of research work for the furtherance of the textile industry of the West Riding of Yorkshire.

2. In accordance with the provisions of the trust deed a fellowship entitled the James Edmondson Ackroyd Fellowship of the value of not less than £150 per annum will be awarded by the Senate on the recommendation of the Board of the Faculties of Science and Applied Science.

3. The fellowship shall ordinarily be awarded for a period of three years, which may be extended by a special resolution of the Senate for a further period not exceeding three years.

4. The fellow shall be required to devote his whole time to the prosecution of research on some subject or subjects approved by the Board of the Faculties of Science and Applied Science, bearing upon the production of wool, silk or other textile materials, or the manufacture of textile fabrics.

5. A committee shall be appointed by the Board of the Faculties of Science and Applied Science to exercise a general supervision over the conduct of the research.

6. In the award of the fellowship preference will be given to graduates in science or applied science but the essential qualification shall be capacity to pursue the research proposed and it shall be in the power of the Senate to award the fellowship to a suitable candidate although he is not a member of the University. Other things being equal, preference will be given to candidates born in the City of Bradford or resident there for a period of not less than five years immediately before the date of the appointment.

7. The award of the fellowship will be made ordinarily in the month of June. Applications for the fellowship should be made to the Registrar on or before 1 May.

8. Grants out of the surplus moneys of the fund may be made by the Senate on the recommendation of the Board of the Faculties of Science and Applied Science to increase the value of the fellowship in any year, or to provide additional facilities for prosecution of the research by the fellow.

9. Provisional reports of the research conducted by the fellow shall be laid by the supervising committee before the Senate on or before the completion of each year of tenure of the fellowship. At the expiration of the full period of tenure a final report shall be submitted to the Senate, together with copies of any papers published in connection with the research.

Akroyd Scholarships

See 'Awards in the Faculty of Science'.

Baines Conference Bursaries

1. These bursaries were instituted in 1962 by Arthur Richard Baines, *C.B.E.*, LL.D., F.T.I., a representative of the Clothworkers' Company on the University Court, who endowed a fund of £600.

2. The income of the fund is to be used to assist undergraduate and research students of the Departments of Textile Industries and of Colour Chemistry and Dyeing, to attend annual conferences of the Textile Institute and the Society of Dyers and Colourists, the symposia of the Faraday Society and any other meetings approved by the heads of the Departments of Textile Industries or of Colour Chemistry and Dyeing. Preference will be given to students studying wool textiles.

In accordance with the wishes of the donor, only students normally domiciled in the United Kingdom are eligible.

3. The bursaries will be awarded by the Senate on the recommendation of the head of the Department of Textile Industries, or the head of the Department of Colour Chemistry and Dyeing.

4. A student who has already held one of these bursaries will not normally be eligible for a further award from the fund.

Edward Baines Scholarship

See 'Awards in the Faculty of Arts'.

British Coke Research Fellowship

1. The fellowship, of the value of £530 a year plus fees, is provided by the British Coke Research Association, and will be awarded annually by the Senate on the recommendation of the Livesey professor of fuel and combustion science, to a candidate qualified to prosecute research at postgraduate standard on a subject connected with the coke industry. Preference will be given to persons wishing to enter the coke oven industry, or in the absence of such, to those intending to engage in some other branch of the fuel industry.

2. In making his recommendation the professor will consult the British Coke Research Association, but the award of the fellowship will ultimately rest with the Senate.

3. The fellowship will normally be awarded to a student who has a good honours degree in fuel, chemistry, physics, or any subject related to fuel technology but in exceptional circumstances the Senate may make the award to a non-graduate.

4. In general the fellowship will be tenable for one year but the Senate may, on the recommendation of the professor, renew the award to the holder for not more than one further period of one year instead of proceeding to a fresh election.

5. The holder of the fellowship shall undertake to spend the whole of his time, excluding normal vacations, in study and research work within the University under the direction of the professor on some subject connected with the coke oven industry. The selection of the subject and the direction of the work shall be left to the discretion of the professor after consultation with the British Coke Research Association.

6. All facilities for research provided within the Houldsworth School of Applied Science in the University will be available to the holder of the fellowship and in recognition of this the British Coke Research Association will pay an annual fee of £50 to the University during the tenure of the fellowship.

7. A report on the research work carried out by the fellow shall be submitted to the Senate and also to the Council of the British Coke Research Association on or before 1 June each year together with copies of any papers which may be published in connection with the research.

8. Results of the investigations of fellows shall be published in the most suitable manner but the investigators are not permitted to make commercial use of their results without the previous consent in writing of the British Coke Research Association and the Science Research Council.

9. The fellowship will be awarded annually during June or July after due advertisement has been made in appropriate journals. Applications for the fellowship must be addressed to the Registrar and should reach him on or before 1 June.

Charles Brotherton Awards

See 'Awards in the Faculty of Science'.

Brotherton Research Scholarship

1. The late Baron Brotherton of Wakefield bequeathed a sum of £20,000 to be devoted to charitable and educational purposes in the City of Leeds, and of this sum the executors in consultation with the Lord Mayor of Leeds have allocated £2,500 for the foundation of a research scholarship in some branch of industrial science, preferably industrial chemistry.

2. The scholarship will be known as the Brotherton Research Scholarship, and will in general be of the value of not less than £100. It will be awarded for a period of one year for an approved course of research at a British university and be open to men and women who have attended a Leeds school for a period of at least three years immediately prior to entering a university. Candidates must have graduated with honours and have shown special capacity to profit by a period of research. Students who have not already graduated but who are taking their final honours degree examination in the year of award may submit applications.

3. The scholarship will be awarded by a committee, to be known as the Brotherton Research Scholarship Committee, and including representatives of the City of Leeds and of the University.

4. The committee will take into account the university records of the candidates and the course of research proposed to be followed, and the award shall be subject to the committee's approval of the proposed course and of the university at which it is to be undertaken.

5. The committee will have the right to terminate the tenure of the scholarship at any time, if in the opinion of the committee the conduct of the scholar is not satisfactory, and thereafter to withold further payments to the scholar.

6. The emoluments of the scholarship will be payable in instalments at the beginning of each university term.

7. In exceptional circumstances the tenure of the scholarship may be extended to a second year.

8. If in any year the committee shall be of opinion that none of the candidates has attained an adequate standard it may refrain from making an award in that year.

9. Any income remaining unspent at the end of any year may at the committee's discretion be either added to the capital sum or reserved for use in making additional payments to scholars.

10. If at any time the sum at the disposal of the committee is greater than that required for the emolument of a single scholar it may award a second scholarship of such value as it may think fit.

11. Applications may be sent, not later than 31 May in any year, to the Registrar of the University of Leeds, or to the Chief Education Officer of the City of Leeds, Education Department, Calverley Street, Leeds.

Brown Scholarships

See 'Awards in the Faculty of Science'.

Stephenson Clarke Scholarship

1. The scholarship was founded in 1926 by Colonel Stephenson Robert Clarke, *C.B.*, LL.D., Master (1924-5) of the Clothworkers' Company who are the trustees.

2. The endowment of the scholarship consists of £1,000. The annual value of the scholarship consists of the free income of this endowment and amounts approximately to £45 a year.

3. The scholarship will be awarded annually. Subject as hereinafter mentioned (para. 5) the scholarship will be awarded in the first year to a student in the Department of Textile Industries and in the following year to a student in the Department of Colour Chemistry and Dyeing and will continue to be thus alternately awarded. The object of the scholarship is to enable the successful candidate to undertake a third or fourth-year course of study in one of these departments and candidates must be completing respectively their second or third-year attendance in either the Textile Industries or the Colour Chemistry and Dyeing Department. A preference will be given to students completing a third year and desiring to enter for a fourth-year course of study.

4. The scholarship is tenable for one academic year.

5. Failing the application of a qualified candidate for the scholarship in the department to which the scholarship falls in a given year, the scholarship may be awarded to another qualified student in the other department, but without affecting the ordinary sequence.

6. Failing the application in any year of a qualified candidate in either department, the amount of the scholarship for that year shall be added to capital.

7. The appointment to a scholarship shall be made by the founder of the scholarship during his lifetime out of nominations submitted by the Vice-Chancellor. Thereafter the appointment shall be made by the Court of the Clothworkers' Company in like manner.

8. Clauses 8, 9 and 10 of the general regulations of the University relating to scholarships shall, so far as may be applicable, apply to the Stephenson Clarke scholarship.

9. Power is reserved to the founder, Colonel Stephenson Robert Clarke, during his lifetime and afterwards to the trustees [the Clothworkers' Company] in the latter case after consultation with the Senate of the University, to alter or modify the above regulations, including the amount of the scholarship or scholarships to be awarded.

10. Any dispute or difference arising in regard to the construction of any of the above rules and regulations or conditions or in regard to any award made thereunder shall be settled by the founder during his lifetime and afterwards by the trustees, any such decision to be final and conclusive.

Clothworkers'—International Wool Secretariat Scholarship

1. The scholarship was instituted in 1968 to mark the opening of the International Wool Secretariat Technical Centre in Ilkley.

2. The scholarship is of the value of £500 per annum.

3. Scholars will be required to carry out research for a higher degree of the University of Leeds and the topic for research will be decided upon after discussions with the scholar, the Chief of the International Wool Secretariat Technical Centre at Ilkley and the head of the Department of Textile Industries of the University of Leeds.

4. Scholars will, during their period of study, spend part of their time in the laboratories of the International Wool Secretariat Technical Centre and the remainder in the Department of Textile Industries of the University of Leeds.

5. Awards will be made for not more than one year in the first instance, renewable normally to a maximum of three years on the recommendation of the head of the Department of Textile Industries.

6. The scholarship will be awarded by the Worshipful Company of Clothworkers on the recommendation of the head of the Department of Textile Industries of the University of Leeds and the Chief of the International Wool Secretariat Technical Centre, with the approval of Senate.

Clothworkers' (1968) Scholarship

1. Since 1899 the Worshipful Company of Clothworkers of the City of London has provided funds for the award of Marling School leaving exhibitions tenable in the Company's departments in the University of Leeds.

2. In 1967 the Company decided to alter the basis for these awards but, to perpetuate its interest in Marling School, it has included in the regulations for the new awards, special reference to its pupils.

3. The new award shall be known as the Clothworkers' (1968) Scholarship and the Company has agreed to make available during its pleasure an annual sum of £600 to the University, commencing on 1 September 1968.

4. Awards will be made for not more than one year in the first instance, renewable normally to a maximum of three years on the recommendation of the appropriate head of department.

5. Scholars will be required to study for a degree of the University and to work in either of the Clothworkers' departments, i.e. the Department of Colour Chemistry and Dyeing or the Department of Textile Industries, and preference will be given to students reading for a higher degree.

6. In appropriate cases grants (of less than £600) may be made from the fund to assist students in their studies.

7. The scholarship or grant will be awarded in the first place to a student (or students) studying in the Department of Colour Chemistry and Dyeing and then to a student (or students) in the Department of Textile Industries, and will continue to be thus alternately awarded.

8. Although the awards are open to all candidates, preference will be given to (a) those educated at the Marling School, Gloucestershire, or (b) those who, after leaving school, have spent some time working in the textile industry or in the colour using or manufacturing industries.

9. The scholarship will be awarded by the Court of the Clothworkers' Company on the recommendation of the head of one of the Clothworkers' departments and with the approval of Senate.

Clothworkers' Research Scholarships and Fellowships in colour chemistry

1. The scholarships and fellowships were instituted in 1928 from funds provided by the Worshipful Company of Clothworkers.

2. The scholarships are of the annual value of £180 together with tuition fees. The value of the fellowships is assessed in the light of the candidates' qualifications and experience.

3. The scholarships are open to suitably qualified graduates of any university, but preference will be given to graduates of the University of Leeds who have graduated with honours in colour chemistry or have obtained the ordinary degree of Bachelor of Science in dyeing.

4. The fellowships will normally be awarded to holders of scholarships who have shown special aptitude for research work during their tenure of a scholarship but any duly qualified applicant may be granted a fellowship on the ground of exceptional distinction without having previously held a scholarship.

5. Both scholarships and fellowships are tenable for one year and may be renewed for one or more years.

6. The number of each to be awarded in any year will depend upon the funds available and on the number of suitable applicants.

7. Scholars and fellows will be required to devote the whole of their time to research in the Department of Colour Chemistry and Dyeing under the direction of the head of the Department and to present a report of their work to the Senate, such report to be sent to the Registrar not later than 1 June each year.

8. The appointments will be made at the end of the third term.

Clothworkers' Research Scholarships and Fellowships in textile industries

1. The scholarships and fellowships were instituted in 1928 from funds provided by the Worshipful Company of Clothworkers.

2. The scholarships are of the annual value of £190-£220 together with tuition fees. The fellowships are of the minimum annual value of £200 plus fees.

3. The scholarships are open to graduates of the University of Leeds, to holders of the diploma in textile industries of the University of Leeds, and to suitably qualified graduates of other universities.

4. The fellowships will normally be awarded to holders of scholarships who have shown special aptitude for research work during their tenure of a scholarship but any duly qualified applicant may be granted a fellowship on the ground of exceptional distinction without having previously held a scholarship.

5. Both scholarships and fellowships are tenable for one year and may be renewed for one or more years.

6. The number of each to be awarded in any year will depend upon the funds available and on the number of suitable applicants.

7. Scholars and fellows will be required to devote the whole of their time to research in some subject or subjects connected with the textile industries, under the direction of the professor of textile industries, and to present a report of their work to the Senate not later than 1 June in each year.

8. The appointments will be made at the end of the third term

Clothworkers' Scholarships in colour chemistry and dyeing

1. The Worshipful Company of Clothworkers of the City of London provides funds for the award of a scholarship of the value of £40 a year.

2. The scholarships may be held either as entrance or senior scholarships and for either three or four years; renewal of a scholarship in successive years will be subject to a satisfactory report on the work of the scholar in the previous year.

3. Scholars will be required to take courses in the University leading to a degree or diploma in the Department of Colour Chemistry and Dyeing.

4. Candidates must give references as to character from not less than two persons who shall not be relatives of the candidate. They must furnish a written personal statement concerning their general interests and activities, including sports, their proposed course of study and their intended career after completing their studies.

5. The scholarships will be awarded by the Senate; selected candidates may be required to attend for interview at the University.

6. Applications in the case of the entrance scholarships must be sent to the Registrar not later than 31 January.

Clothworkers' Scholarships in textile industries

1. In 1947 the Worshipful Company of Clothworkers of the City of London decided to combine the sums of £30 and £60 hitherto made available annually for the provision, respectively, of 12 evening class studentships and one senior scholarship in the Department of Textile Industries and to use the combined funds for the award of two or more scholarships each of the value of not less than £40 a year.

2. The scholarships may be held either as entrance or senior scholarships and for either three or four years. Renewal of a scholarship after the first year will be subject to a satisfactory report on the work of the scholar in the previous year.

3. Scholars will be required to take courses in the University leading to a degree in textile technology.

4. Candidates must give references as to character from not less than two persons who shall not be relatives of the candidate. They must furnish a written personal statement concerning their general interests and activities, including sports, their proposed course of study and their intended career after completing their studies.

5. The scholarships will be awarded by the Senate; selected candidates may be required to attend for interview at the University.

Clothworkers'—Wool Industries Research Association Scholarship

1. The scholarship was instituted in 1970.

2. The scholarship is of the value of not less than £500 per annum, the precise sum being determined by the qualifications and experience of the candidate.

3. Scholars will be required to carry out research for a higher degree of the University of Leeds. The director of research at the Wool Industries Research Association and the head of the Department of Textile Industries of the University of Leeds will decide upon the topic of research after discussion with the scholar.

4. Scholars will observe the regulations in the Scheme of Co-operation for Postgraduate Study between the University of Leeds and the Wool Industries Research Association.

5. Awards will be made for not more than one year in the first instance, renewable to a maximum of three years on the recommendation of the head of the Department of Textile Industries.

6. The scholarship will be awarded by the Worshipful Company of Clothworkers on the recommendation of the head of the Department of Textile Industries of the University of Leeds and the director of research at the Wool Industries Research Association, and with the approval of Senate.

Cobb Memorial Fund

1. On his retirement a fund was raised to commemorate the services to the University and to industry of Professor J. W. Cobb, *C.B.E.*, Livesey professor of coal gas and fuel industries from 1912 to 1938. Contributions were received from friends within and without the University and from the industries, notably the gas industry, with which Professor Cobb's work had been connected. In accordance with his wish, the balance of the fund, amounting to £769, was presented to the University in order that the income from it should be used to assist students in the Houldsworth School of Applied Science to meet the cost of maintenance while at the University, or to cover other expenditure necessary for their studies or researches.

2. Grants from the fund are made by the Senate on the recommendation of the head of the department concerned.

Connolly Scholarships

1. Two entrance scholarships, each of the value of £100 a year, tenable at the University by students in attendance upon the honours degree course in leather science, in the Procter Department of Food and Leather Science, were made available in 1962 by Connolly Bros. (Curriers) Limited.

2. The entrance scholarships are tenable for three or four academic years according to whether the scholar is permitted to take the course leading to the degree of Bachelor of Science with honours in leather science in three years or in four years. Continuance each year will be subject to a satisfactory report on the work of the scholar in the previous year.

3. Candidates must be of United Kingdom parentage and birth, and qualified to enter upon a degree course. They must supply information with regard to their school career, results of public examinations, and general interests and activities. Candidates must give references as to character from not less than two persons who shall not be relatives of the candidate.

4. The scholarships will be awarded by Senate on the recommendation of the Procter professor of food and leather science.

5. Applications must be received by the Registrar not later than 1 June.

Craven Scholarship

1. The scholarship was established in the year 1887 by a number of the engineers of Leeds, in recognition of the services rendered by the late Joseph Craven, Esq., to the mechanical engineering trades of the district.

2. Candidates must have been, previous to the day of examination, resident in the city of Leeds for a period or periods amounting together in the aggregate to at least five years, and be so resident at the time they present themselves for examination.

3. The scholarship is tenable in the Faculty of Applied Science.

Arthur Crockatt Studentships

1. In 1962 the National Federation of Dyers and Cleaners gave to the University the sum of £3,000, which had been raised by voluntary subscription from its members in commemoration of the services to the industry of Arthur John Crockatt who graduated from the University of Leeds in 1914.

2. The amount available annually is approximately £150.

3. The primary purpose of the studentships is to give financial assistance to students in the Department of Colour Chemistry and Dyeing who may be in need of it, or to help such students to undertake research in the Department of Colour Chemistry and Dyeing for a period of up to twelve months.

4. If in any year the total sum available is not required for the primary purpose, the surplus income may be applied under the provisions of clause 3 to students in the Department of Textile Industries.

5. If in any year the total sum available is not required under the provisions of clauses 3 and 4 it may be used to enable students in the Department of Colour Chemistry and Dyeing and in the Department of Textile Industries to attend the annual conferences of the British Association, the Faraday Society, the Society of Dyers and Colourists or the Textile Institute, or any other meetings approved by the heads of the Departments of Colour Chemistry and Dyeing, or of Textile Industries.

6. The awards shall be made by the Senate on the recommendation of the appropriate head of department.

Dyers' Company Travel Bursaries

1. In 1967 the Dyers' Company offered to the University a sum of money for the award of travel bursaries.

2. The bursaries are for the purpose of assisting students, whether undergraduate or postgraduate, studying preferably in the Departments of Colour Chemistry and Dyeing or of Textile Industries, to travel outside the United Kingdom. The bursaries may be used for a variety of purposes, ranging from single visits to a series of visits, to include conferences and symposia, academic and industrial centres.

3. Normally, three awards of £70 may be made each year, but the number and amount may be varied, provided that the total sum awarded does not exceed £210 in any year.

4. The bursaries are awarded by the Dyers' Company on the recommendation of the appropriate head of department, after consultation with the head of the Department of Colour Chemistry and Dyeing.

5. A successful candidate is required to write a report on his travels which shall be forwarded by the head of his department, with his comments, to the Dyers' Company.

Emsley Scholarship

See 'Awards in the Faculty of Arts'.

Gas Research Fellowship

1. The fellowship, of the value of £530 a year plus fees provided by the Institution of Gas Engineers, will be awarded by the Senate, on the recommendation of the Board of the Faculties of Science and Applied Science, to a duly qualified candidate for the prosecution of postgraduate research in chemical or chemical engineering aspects of fuels.

2. The award of the fellowship will be made annually during the month of June, after due advertisement in the technical press and other appropriate journals.

3. It will always be within the power of the Senate, on the recommendation of the Board of the Faculties of Science and Applied Science, to renew the fellowship to the holder for a further period of a year, instead of proceeding to a fresh election.

4. The holder of the fellowship shall undertake research in the University under the direction of the Livesey professor of fuel and combustion science on some subject connected with the chemistry of gases and combustion. The selection of the subject, and the method of carrying on the work, will be left to the judgment of the professor responsible for its direction.

5. The University will provide, free of charge, all reasonable accommodation facilities required for the prosecution of the research undertaken by the holder of the fellowship, including working space and the use of such instruments and appliances installed as part of the equipment of the Department of Fuel and Combustion Science. Any special expenses, not exceeding £75, incurred during the prosecution of the research will be defrayed by the Institution of Gas Engineers.

6. A report of the research work carried out by the holder of the fellowship shall be submitted to the Council of the Institution of Gas Engineers, as well as to the Senate of the University, on or before 1 May each year, together with copies of any papers published in connection with the research.

John Goodman Testimonial Fund

1. The income from the invested capital contributed by old students and friends of Emeritus Professor J. Goodman will be expended in making grants of drawing instruments or text books on engineering. The value of each grant will be approximately £5.

2. No student is eligible to receive a grant unless he has, prior to entering the University, worked for at least twelve months in an engineering workshop, not an office, carried on purely for industrial purposes.

3. The grants will be made to students requiring financial assistance and pursuing a three-year course of instruction in civil, electrical or mechanical engineering. Applications for grants must be made in writing to the professor of engineering during June in the student's first year. Successful candidates will receive their instruments or text books at the beginning of their first long vacation.

4. The professor of engineering will select the candidates and will recommend the Senate to make the awards accordingly. The names of the students receiving grants will not be made public, and no mark shall be put on the instruments or books which will allow of their being identified as coming from the fund.

Gunnell Studentships in colour chemistry and dyeing

1. The directors of Messrs. Johnson Brothers (Dyers) Ltd., of Bootle, Liverpool, provided in 1952 a fund of £2,000 to endow two studentships in commemoration of the services of the late Mr. Oswald Gunnell, formerly chairman and managing director of the company, who was trained at the Yorkshire College.

2. The awards are each of the approximate annual value of £50 and are tenable in the department of colour chemistry and dyeing for one year in the first instance. They may, at the discretion of the Senate, be renewed for two or three years provided that the report on the work of the students for the previous year is satisfactory.

3. Other things being equal, preference will be given to students who have resided, or whose parents have been resident, in the West Riding of Yorkshire and who would otherwise find difficulty in entering upon a University course.

4. The studentships will be awarded by Senate on the recommendation of the professor of colour chemistry and dyeing.

Dr. Walter Hargreaves Studentship

1. The studentship was endowed with £1,250 in 1944 by the shareholders of Henry Briggs, Son & Company Limited, as a testimonial to Dr. Walter Hargreaves on his retirement from the Chairmanship of the Company.

2. The annual value of the studentship is approximately £40.

3. The award is tenable in the Department of Mining and Mineral Sciences.

4. The award will be made to a research student or research assistant working on an approved subject relating to the working, production or treatment of coal.

5. The award shall be used to help in defraying the student's expenses in visiting industrial and/or research establishments.

6. If the head of the Department of Mining and Mineral Sciences so recommends, the amount of the studentship may be used instead for the purchase of equipment relating to the working, production or treatment of coal.

7. The award of the studentship shall be made by the Senate on the recommendation of the head of the Department of Mining and Mineral Sciences.

Haydon Memorial Fund

1. The Haydon Memorial Fund was created from a bequest of £1,000 in the will of the late Mr. R. W. Haydon, lecturer in agriculture from 1891 to 1921, to be used in the interest of the Departments of Agricultural Sciences and of Agricultural Economics of the University as the governing body of the University may decide.

2. The income of the fund shall be used to enable graduate or undergraduate students in the Departments of Agricultural Sciences or of Agricultural Economics to participate during vacations in research programmes or other approved activities.

3. The income of the fund is about £40 per annum but the value of the award will be assessed separately in the case of each candidate.

4. The award will normally be made each year.

5. The award will be made by the Senate on the recommendation of the head of the Department of Agricultural Sciences, in consultation with the head of the Department of Agricultural Economics, who, in making the award, will take into account, in addition to academic distinction, the nature of the work proposed and the personal contribution of the candidate to the activities of the Departments and the University.

6. The income not used in one year shall be available in a subsequent year.

Alfred Henshall Memorial Scholarship

1. This scholarship was founded by the North-Western Gas Board to perpetuate the memory of the late Mr. Alfred Henshall's services as deputy chairman of the Board.

2. A scholarship of the annual value of £475 plus fees will be awarded each year to an employee of the North-Western Gas Board to enable him to follow a course of study leading to the degree of Bachelor of Science with honours in fuel engineering, fuel science or chemical engineering.

3. The scholarship is tenable for four years but continuation for each year after the first will depend upon a satisfactory report on the work of the scholar in the previous year.

4. Candidates must be of British nationality and qualified to enter upon a degree course; and must furnish particulars of their scholastic attainments, industrial or practical experience and other personal activities and interests. These particulars, with references as to character, must be supplied on a form to be obtained on application to the Registrar.

5. The award will be made after interview. Candidates will be required to attend at the University for this purpose.

6. Applications must be received by the Registrar not later than 30 June.

Hickson and Welch Research Studentship

1. The studentship was established in 1952 by the wish of Mr. Bernard Hickson, a former student of the University and chairman and managing director of Messrs. Hickson and Welch Ltd., chemical manufacturers, Castleford.

2. The studentship will be awarded by Messrs. Hickson and Welch Ltd., on the recommendation of the head of the Department of Colour Chemistry and Dyeing after consideration of the results of the final examination for the degree of Bachelor of Science.

3. The student will be required to devote his whole time to research in some branch of colour chemistry in the Department of Colour Chemistry and Dyeing.

4. The award will be made for one year in the first instance, but may be renewed for not more than two further years.

H. J. Hodsman Memorial Travel Bursary

1. On the death of Mr. H. J. Hodsman, *M.B.E.*, senior lecturer in gas chemistry, in 1951, a fund was raised to commemorate the services that he had rendered since 1908 to the University, to the profession of applied chemistry and to industry. Contributions were received from his many friends within and without the University and from the industries with which his work had been connected. The balance of the fund, amounting to approximately £900 was presented to the University to endow a travel bursary to assist students of his former department to obtain approved technological experience overseas during the long vacation.

2. All full-time students of the Houldsworth School of Applied Science are eligible for the award of the bursary, but no student may receive an award more than once. The bursary, amounting to approximately £40, will normally be awarded each year.

3. The bursary will be awarded by the Senate on the recommendation of the head of the Department. Candidates may be required to submit themselves for interview.

4. At the end of their vacation work, holders of the bursary will be required to submit a report upon their experience to the Senate.

5. Applications, giving particulars of the proposed programme of travel and vacation experience, should be made to the Registrar not later than 31 March.

Imperial Chemical Industries Ltd. Research Fellowships

See 'Awards in the Faculty of Science'.

International Wool Secretariat Scholarships

1. The scholarships were instituted in 1945 from funds provided by the International Wool Publicity and Research Secretariat for the encouragement of research in the wool industry.

2. The scholarships, which are of the annual value of £450 plus fees, are open to graduates of the University of Leeds and suitably qualified graduates of other universities, to holders of the diploma in textile industries of the University of Leeds, and to Fellows and Associates of the Textile Institute.

3. The scholarships are tenable for one year and may be renewed for one or more years, but the number awarded in any one year will depend upon the funds available and upon the number of suitable applicants.

4. Scholars will be required to devote the whole of their time to research on an approved subject concerned with the constitution and properties of wool, or the processes of the wool textile industry, and to present a report on their work to the Senate not later than 1 June each year.

5. The appointment will be made by the Senate, on the recommendation of a committee appointed for the purpose, at the end of the third term. Applications should be in the hands of the Registrar not later than 1 May each year.

Leather Industry Scholarships

1. These scholarships were instituted in 1961 by the British Leather Manufacturers' Research Association for the promotion of research in leather science.

2. The scholarships will normally have an annual value of £530 in addition to tuition fees.

3. The scholarships will be awarded by the Senate, on the recommendation of the Procter professor of food and leather science, to candidates who have graduated with honours in the Department of Food and Leather Science, or exceptionally to other suitably qualified graduates of the University of Leeds or of other approved universities.

4. The scholarships are tenable for one year in the first instance and may be renewed for one further year.

5. Scholars are required to pursue full-time research in leather science in the University under the direction of the Procter professor of food and leather science.

6. Limited assistance will be given to enable the scholars, on the recommendation of the Procter professor, to travel in furtherance of their studies.

7. Applications should reach the Registrar preferably not later than 30 June each year, but later applications may be considered.

Leighton Exhibitions

See 'Awards in the Faculty of Arts'.

Alfred Lund Scholarship

1. A fund was instituted in 1924 by the late Alfred Lund, Esq., of Pudsey, for the purpose of assisting deserving students to complete their studies in the Departments of Colour Chemistry and Dyeing and Textile Industries, or to prosecute advanced study and research in some branch of knowledge germane to the dyeing and textile industries.

2. The number of scholarships awarded each year will depend upon the number of suitable candidates and the amount of income available. The scholarships are of the annual value of £25, which may be supplemented by a grant for maintenance not exceeding £100. They are awarded for one year and may be renewed.

3. Students who have attended courses of study for degrees of the University in the Department of Colour Chemistry and Dyeing or the Department of Textile Industries for not less than one session, are eligible for the scholarships.

4. Holders of the scholarships are required either to complete their courses for a degree in the Departments of Colour Chemistry and Dyeing or of Textile Industries, or, if they have completed such courses, to pursue advanced study and research in the University or in some other university or learned institution under suitable guidance in a manner approved by the Senate.

5. The scholarships are awarded by the Senate on the recommendations of the professors of colour chemistry and dyeing and of textile industries at the end of the summer term.

Matthews Studentship in colour chemistry and dyeing

1. A fund of approximately £1,500 was given to the University in 1946 by the Court of the Worshipful Company of Dyers and represented the capital and accumulated interest of a gift made to the Dyers' Company by Mr. Trevor Jocelyn Matthews, a former Prime Warden of the Company.

2. The fund will be used for the provision of a Matthews studentship to enable promising students of limited means to follow a course of study in colour chemistry and dyeing.

3. The award will normally be of the value of £75 a year but may vary between £50 and £100 a year according to the circumstances of the student and having regard to the funds available. The studentship will be tenable for not more than one year in the first instance renewable to a maximum of three years on the recommendation of the head of the Department.

4. The award will be made by the Senate on the recommendation of the head of the Department of Colour Chemistry and Dyeing and in accordance with the general regulations relating to awards of the University.

Procter Memorial Junior Fellowship

1. The Procter memorial junior fellowship was established by the International Society of Leather Trades Chemists to commemorate the services of the late Emeritus Professor H. R. Procter to the science of leather manufacture, the endowment fund being subscribed by members of the Society and of the leather and allied trades.

2. The value of the fellowship is normally £530 per annum plus fees.

3. The award of the fellowship is made annually by the Senate in June on the recommendation of the Procter fellowship committee after due advertisement in the *Journal of the Society of Leather Trades Chemists*. Normally, the person appointed to the fellowship will be a graduate in leather chemistry or possess an equivalent qualification of an institution of university status.

4. The fellow, who may be of any nationality, will be appointed for a period of one academic year, but the committee has power to recommend that the holder be reappointed for a further period.

5. The University undertakes to provide free of charge all reasonable accommodation and apparatus for the prosecution of research which shall be carried out under the direction of the Procter professor of food and leather science. If no election to the fellowship be made in any year the income for that year shall be added to the capital fund.

6. The fellow will be required to devote the whole of his time to research on a subject pertaining to the leather or allied industries.

7. The results of his work must be presented as a report to the Senate and to the Procter fellowship committee.

8. Applications should be in the hands of the Registrar not later than 1 April each year.

Procter Memorial Senior Fellowship

1. The Procter memorial senior fellowship was established by the International Society of Leather Trades Chemists to commemorate the services of the late Emeritus Professor H. R. Procter to the science of leather manufacture, the endowment fund being subscribed by members of the society and of the leather and allied trades.

2. The value of the fellowship is between £700 and £1,000 a year.

3. The award of the fellowship is made annually by the Senate in June on the recommendation of the Procter fellowship committee after due advertisement in the *Journal of the Society of Leather Trades Chemists*. Normally, the person appointed to the fellowship will be a graduate in leather chemistry or possess an equivalent qualification of an institution of university status and will have obtained a Ph.D. degree or have had equivalent research experience.

4. The fellow, who may be of any nationality, will be appointed for a period of one academic year, but the committee has power to recommend that the holder be reappointed for a further period.

5. The University undertakes to provide free of charge all reasonable accommodation and apparatus for the prosecution of research which shall be carried out under the direction of the Procter professor of food and leather science. If no election to the fellowship be made in any year the income for that year shall be added to the capital fund.

6. The fellow will be required to devote the whole of his time to research on a subject pertaining to the leather or allied industries.

7. The results of his work must be presented as a report to the Senate and to the Procter fellowship committee.

8. Applications should be in the hands of the Registrar **not** later than 1 April each year.

S.A.T.R.A. Research Fellowship

1. The fellowship has been established by the British Boot, Shoe and Allied Trades Research Association for the encouragement of research in physics in relation to its problems.

2. The fellowship, normally of the annual value of £500 plus fees is open to suitably qualified graduates of the University of Leeds or other approved universities.

3. The fellowship is tenable normally for two years, renewal being subject to a satisfactory report at the end of the first year. The fellow may apply for acceptance as a candidate for a higher degree.

4. The fellow will be required to devote the whole of his time to research within the University, except in so far as arrangements may be approved for him to carry out parts of his work elsewhere, under the direction of the Procter professor of food and leather science in consultation with the Director of the Research Association.

5. The award will be made by the Senate on the recommendation of the Procter professor of food and leather science.

Shell Scholarships in mining

1. Two or three scholarships in mining, of the value of £470 a year plus fees, which includes £20 for books, have been made available each year, tenable at the University by a student in attendance upon the honours degree course in the Department of Mining and Mineral Sciences.

2. The scholarships are tenable for three and four sessions. Their continuance each year will be subject to a satisfactory report on the work of the scholar in the previous year.

3. In making the awards the University will not only take into consideration intellectual and scholastic attainments and ability but will also attach importance to qualities of character and personality.

4. Candidates must give references as to character from not less than two persons who shall not be relatives of the candidate. Candidates must furnish a written personal statement concerning their general interests and activities including sports.

5. Candidates must supply information regarding their school career, together with a statement from the head of the school in which they spent the last three years of school life. Candidates engaged in business or industry should also supply evidence of their experience, supported by a letter of recommendation from their employer.

6. Candidates must supply evidence of intellectual qualifications, including the results of any public examinations they have taken, and must be qualified to enter upon a degree course.

7. The awards will be made after interview. Selected candidates will be required to attend at the University for this purpose.

Arthur Smithells Scholarship

See 'Awards in the Faculty of Science'.

Speakman Bursaries

1. Emeritus Professor J. B. Speakman, *C.B.E.*, D.Sc., F.R.I.C., F.T.I. (Hon.), on his retirement in 1963 presented to the University the sum of £2,000, being the balance of a testimonial fund subscribed by colleagues and friends to commemorate his thirty-nine years' service to the University and to the textile industry, and his twenty-four years as head of the Department of Textile Industries.

2. The income of the fund will normally be used to assist research students and junior members of the staff of the Department of Textile Industries to attend conferences and seminars, particularly the Quinquennial International Wool Textile Research Conferences.

3. The bursaries will be awarded by the Senate on the recommendation of the head of the Department of Textile Industries.

4. A student or member of staff who has already held one of these bursaries will not be eligible for a further award from the fund.

Richard Sutcliffe Scholarship in mining

1. The firm of Messrs. Richard Sutcliffe Ltd. has made available a scholarship in mining of the value of £100 a year.

2. The scholarship is open to employees of Messrs. Richard Sutcliffe, Ltd. on the same conditions as to other persons.

3. The scholarship is tenable for four years. The continuation of the award after the first year will be subject to a satisfactory report on the work of the scholar in the previous year.

4. The scholar is required to undertake courses leading to the degree of Bachelor of Science of the University with honours in applied mineral sciences.

5. The award will be made by the Senate on the recommendation of the head of the Department of Mining and Mineral Sciences.

William Walker Exhibitions

These exhibitions are intended to enable students to obtain at Leeds University scientific instruction of an advanced character in the technology of coal and its by-products and in the technology of leather. Each exhibition is of the annual value of from £70 to £90 and, subject to the condition named below, is tenable for three years, with power of extension by the trustees for a fourth year in the case of an exhibitioner who has shown exceptional promise during his course of training at the University. The continuation of the exhibition each year after the first will depend on the work done by the exhibitioner in the previous year being reported to the trustees as satisfactory. The trustees may, if they think proper, divide the income of each exhibition between two candidates, or only award part of it in certain cases, as determined by circumstances.

Candidates for election to the exhibitions must be natives of, or living in the Poor Law Unions of Whitehaven and Bootle, except the Urban District of Millom, and between the ages of sixteen and twenty-two.

The Corbet and Henry Woodall, and William Cartwright Holmes Postgraduate Award

1. This award is financed from the income derived from the combined assets of the former Corbet and Henry Woodall scholarship and William Cartwright Holmes scholarship endowments.

2. The Corbet Woodall scholarship was endowed in 1915 by Sir Corbet Woodall to celebrate the Jubilee in 1913 of the Institution of Gas Engineers of which he was then the President. In 1948, to perpetuate also the memory of Sir Corbet's son, Mr. Henry Woodall, the endowment of the scholarship was more than doubled by the generous action of certain gas companies with which Mr. Woodall had been closely associated, and at their suggestion the name of the scholarship was changed to the 'Corbet and Henry Woodall Scholarship'. The scholarship, in gas engineering, was tenable at the University of Leeds.

3. The William Cartwright Holmes scholarship, also in gas engineering and tenable at the University of Leeds, was endowed in 1929 by Mr. P. F. Holmes and Mr. D. M. Henshaw as a memorial to William Cartwright Holmes of Huddersfield. The endowment was subsequently increased by contributions made under covenant from Mr. D. M. Henshaw and from Mr. F. B. Holmes, son of Mr. P. F. Holmes and grandson of William Cartwright Holmes.

4. In 1968 the families of the donors agreed to combine the assets of the two endowments into one fund so that the income could be more effectively used for the encouragement of postgraduate education or research at the University of Leeds.

5. The award will be made by the Senate of the University in consultation with an Advisory Committee appointed by the Institution of Gas Engineers and in accordance with the general regulations concerning awards of the University. Its purpose is to enable suitably qualified candidates to pursue postgraduate education or research in the University of Leeds in physical, chemical or chemical engineering subjects which have some relationship to fuel production, distribution or utilisation.

6. As each vacancy arises the award will be advertised in the technical and scientific press. The value and period of any award will be at the discretion of the Senate and the Advisory Committee; it will normally be £600 per annum from which fees will have to be paid.

7. Candidates should normally hold a first degree or its equivalent; exceptional candidates whose qualifications are not at first degree level but who have appropriate industrial experience may be considered. Other things being equal, preference will be given to candidates with experience in the gas industry.

8. Each candidate for an award will be required to submit a statement covering his previous education and his scientific and technological qualifications, his career to date with details of any industrial experience and his purpose in applying for the award and his ultimate career intentions.

Woolmen's Company Scholarship

1. The scholarship was founded in 1927 by the Worshipful Company of Woolmen with the object of encouraging study in connection with the wool trade.

2. The scholarship is of the annual value of £40 and is normally tenable for three academic years in the Department of Textile Industries.

3. The scholarship is open to students entering upon the first year of a course of study leading to a degree of the University in the Department of Textile Industries. Failing a suitable candidate entering upon the first year course of study, the scholarship may be awarded to a student who has already completed the first or second year of his attendance in the Department of Textile Industries and wishes to complete his degree or diploma course of study in that department.

4. Preference will be given to candidates whose means are otherwise insufficient to enable them to pursue their studies in the University.

5. When a vacancy occurs the scholarship will be advertised in the press. Applicants may be required to present themselves for a special examination, which will be held in September.

Yorkshire Agricultural Society Travelling Fellowship

1. The fellowship was instituted in 1954 from funds provided by the Yorkshire Agricultural Society, with the object of encouraging study and research abroad in subjects in the field of agriculture, including the agricultural sciences and agricultural economics.

2. The fellowship, which is intended to cover the cost of travel and research abroad, including subsistence, will not normally exceed £300; it will be tenable for one year and not renewable. It may be awarded by the Senate to a graduate of, a member of the staff of, or a postgraduate student of the University in agriculture, in agricultural sciences or in agricultural economics. In making the award, consideration will be given to academic distinction as well as to the ability of the candidate to profit by the scheme of study or research proposed.

3. The fellow will be required during his year of tenure of the fellowship to engage in study or research abroad in the field of agriculture, the agricultural sciences or agricultural economics over a period of not less than three months.

4. Each applicant must present a detailed statement of the proposed scheme of study or research, and an estimate of the cost likely to be incurred in travelling and maintenance during the period to be spent abroad.

5. The fellow will be required, within a period not exceeding eighteen months from the date of the appointment, to submit to the Senate a full and detailed account of his study or researches and this shall be made available, if required, for publication in the *Journal of the Yorkshire Agricultural Society*.

6. Applications should reach the Registrar not later than 1 June each year.

Awards in the Faculty of Medicine

Cancer Research Fellowships

1. Funds have been made available through the Yorkshire Council of the British Empire Cancer Campaign for the provision of fellowships for the prosecution of cancer research within the University. Four fellowships—the Henry Oxley, the Elizabeth and Louisa Ward, the J. W. Wootton and the Angus Rhodes—are available. They will be tenable for one, two or three years, and may be renewed thereafter for such periods as the Senate may determine.

2. The holders of the fellowships shall work under the direction of the professor of experimental pathology and director of cancer research at such problems in the field of cancer research as he shall determine.

3. The fellows will be required to devote the whole of their time to the prosecution of their researches and to present reports of their work to the Senate unless the results are otherwise published in the form of communications to recognised scientific journals.

4. Fellows appointed for one year must submit a report on their work to the Registrar at the end of that period. Fellows appointed for two years must send an interim report at the end of the first year, and a further report at the end of the second year. Fellows appointed for three years must send interim reports at the end of the first and second years, and a further report at the end of the third year. Similar reports will be required in the event of the renewal of the fellowship. The tenure of the fellowship will be conditional on such reports being satisfactory to the professor of experimental pathology.

5. Appointments to vacant fellowships may be made at any time. Renewals will be made in January or June. Vacancies will be announced as they occur and applications should be lodged with the Registrar.

Centenary and Hardwick Fellowship

1. The fellowship is endowed by means of the fund collected on the occasion of the centenary of the School of Medicine and by the accumulations of the Hardwick and McGill prize funds.

2. A fellowship of the approximate value of £150 is awarded every alternate year to a student or graduate of the University who proposes to undertake some approved clinical investigation.

3. Candidates must be medically qualified and must have been students of the University for not less than three years.

4. Each applicant must submit a detailed statement of the investigation which he proposes to undertake and must state also the department of the University in which he desires to work.

5. Holders of the fellowship will be required to devote the whole of their time to their research unless with the express permission of the professor under whom they are working. On completion of their tenure of the fellowship they will be required to submit a report on their work to the Registrar.

6. The award will be made by the Senate on the recommendation of the Board of the Faculty of Medicine. Applications should be in the hands of the Registrar by 1 May each year.

Durward Travelling Studentship

1. The studentship was instituted in 1966. It was endowed by means of a fund subscribed by past students, colleagues and friends of Professor Archibald Durward, to commemorate his outstanding services to the University during his tenure of the chair of anatomy from 1936 until his death in 1964.

2. The studentship is intended to assist a medical or dental graduate of the University of Leeds to pursue research in anatomy or some subject closely related to anatomy in an approved centre other than Leeds, either in the United Kingdom or abroad, by providing additional funds.

3. The studentship will be awarded by the Senate on the recommendation of a committee consisting of the chairman of the scholarships and studentships committee, the dean of the Faculty of Medicine, the professor of anatomy, the professor of dental surgery, and two other members of the Board of the Faculty of Medicine, of whom one must be a member of the Department of Anatomy.

4. The studentship will derive from the interest of the endowment fund. The committee may vary the amount of the studentship and the frequency with which it is awarded as it deems appropriate. Any accrued income shall be carried forward so as to be available to the committee when making an award of a studentship.

5. Applications, giving particulars of age, experience and qualifications and an outline of proposed research or special study, should be submitted to the Registrar in May.

Freeman Fund

1. The late Mr. Robert Aspin Freeman bequeathed to the University the sum of £1,150 and expressed the desire that this bequest should be used to promote the study and investigation of digestion and disorders of digestion and that the bequest should be known as the Freeman Fund.

2. The annual income of the bequest will be used as a fund for the payment of expenses incurred in approved research on digestion or disorders of digestion. Any unexpended balance will be allowed to accumulate and will be used either for research expenses or in payment of the emoluments of a research worker. Applications must be submitted to the Registrar normally before 1 September.

John Deakin Heaton Scholarship

1. The late Mr. Beresford R. Heaton, of Gomshall, Surrey, in 1939 bequeathed the sum of £1,000 to the University to found a scholarship in memory of his father John Deakin Heaton, the first chairman of the Council of the Yorkshire College.

2. The scholarship, of the approximate annual value of £30, is tenable in the first instance for one year and may be renewed for one or two years.

3. It is open to matriculated students of the University of Leeds and to graduates in arts or science of a British university.

4. The scholar is required to pursue the courses prescribed for the degrees of Bachelor of Medicine and Bachelor of Surgery of the University.

5. The scholarship is awarded by the Senate on the recommendation of a special committee after interview of candidates and consideration of their records.

Imperial Chemical Industries Ltd. Research Fellowship

See 'Awards in the Faculty of Science'.

Legg Travelling Scholarship

1. The Legg travelling scholarship was founded in 1948 by a gift of £2,000 from the trustees of the late Mr. Thomas Legg, made in memory of his association with the School of Medicine of the University of Leeds.

2. Awards will normally be made in every third year. The first award was made in 1952. If no candidate is regarded as of sufficient merit, no award shall be made and the scholarship shall be offered in the following year. Any accrued income may be added to the capital funds of the scholarship.

3. The scholarship, which has a maximum value of £200, is tenable for six months during which the holder will study at one or more approved centres other than Leeds either in this country or abroad.

4. The scholarship will normally be awarded only to candidates who have held a registrable medical qualification for not less than two years and not more than seven years at the time of the award.

5. The scholarship is open to both men and women. Candidates must be holders of an appointment of demonstrator in the School of Medicine in the University of Leeds or holders of an appointment of registrar in one of the teaching hospitals associated with the University or holders of an appointment of similar status elsewhere, provided that they have been students in the University for a period of not less than three years.

6. Other things being equal, preference will be given to applicants wishing to undertake advanced study or research in one of the clinical branches of medicine.

7. The scholarship will be awarded by the Senate on the recommendation of a committee consisting of the dean and the professorial members of the Faculty of Medicine, together with the chairman of the scholarships committee.

8. Applications, giving particulars of the candidate's age, experience and qualifications, together with a programme of the study proposed, and details of the candidate's proposed expenditure from the award, should be received by the Registrar not later than 1 May.

Medical Scholarship

1. The scholarship was instituted by the Leeds School of Medicine in 1888. It is of the value of approximately £130 which is set against the fees for the medical course.

2. The scholarship is tenable in the Faculty of Medicine and is awarded, after a report from the examiners, on the results of the second examination for the degrees of Bachelor of Medicine and Bachelor of Surgery of the University.

3. The scholarship will be awarded only if there is a suitable candidate who, in the opinion of the examiners, is of sufficient academic distinction, and who is in need of financial assistance.

Lady Moynihan Scholarship

1. The scholarship is endowed by means of a fund provided in 1939 by the family of the late Lord and Lady Moynihan in memory of Isabella Wellesley, Lady Moynihan of Leeds.

2. A scholarship of the approximate value of £60 is awarded every alternate year to a student or graduate of the University who proposes to undertake some approved clinical investigation.

3. Candidates must be graduates of this University or qualified medical men or women who have been students of the University for not less than three years.

4. Each applicant must submit a detailed statement of the investigation which he proposes to undertake and must state also the department of the University in which he desires to work.

5. Holders of the scholarship will be required to devote the whole of their time to their research unless with the express permission of the professor under whom they are working. On completion of their tenure of the scholarship they will be required to submit a report on their work to the Registrar.

6. The award will be made by the Senate on the recommendation of the Board of the Faculty of Medicine. Applications should be in the hands of the Registrar by 1 May each year.

Richard Reynolds Scholarship

See 'Awards in the Faculty of Science'.

Thorp Fellowship in forensic medicine and public health

1. The annual income of the Thorp fund instituted by the late Dr. Disney L. Thorp, one of the founders of the Leeds School of Medicine, is applied to provide in every alternate year a fellowship of the value of approximately £150 to a student or graduate of the University who proposes to undertake an approved investigation of some subject bearing upon forensic medicine or public health.

2. Candidates must be graduates of the University or qualified medical men or women who have been students of the University for not less than three years.

3. Each applicant must submit a detailed statement of the investigation which he proposes to undertake and must state also the department of the University in which he desires to work.

4. Holders of the fellowship will be required to devote the whole of their time to research unless with the express permission of the professor under whom they are working. On completion of their tenure of the fellowship they will be required to submit a report on their work to the Registrar.

5. The award will be made by the Senate on the recommendation of the Board of the Faculty of Medicine. Applications should be in the hands of the Registrar by 1 May each year.

John Gilbert Vause Memorial Scholarship

1. The late Mr. F. W. Vause, of Roundhay, Leeds, bequeathed the sum of £1,000 to the University to found a scholarship in memory of his son, Lieutenant John Gilbert Vause of the 15th West Yorkshire Regiment, who died in the first battle of the Somme.

2. The scholarship, of the approximate annual value of £35, is tenable in the first instance for one year, and may be renewed for one year or two years.

3. It is open to matriculated students of the University of Leeds and graduates in arts or science of a British university. Other things being equal, preference will be given to candidates who are or have been pupils of the Leeds Grammar School.

4. The scholar is required to pursue the courses prescribed for the degrees of Bachelor of Medicine and Bachelor of Surgery of the University.

5. The scholarship is awarded by the Senate on the recommendation of a special committee after interview of candidates and consideration of their records.

Awards in the Institute of Education

Institute of Education Research Grant Fund

1. A research grant fund was established in 1951 to enable assistance to be given to educationists within the area of the University Institute of Education for educational research and investigation, or visits to educational institutions in this country or abroad.

2. Grants will not normally exceed £25 for any one project, but may be increased both for long term undertakings and to finance the publication of researches already undertaken. It is also possible for block payments to be made to teams working on a piece of co-operative research.

3. Successful applicants will be required to present a report on the results of the researches for which grants were awarded.

4. Applications for grants, giving details of the plan of the proposed research, may be sent to the secretary of the Institute at any time.

Students' Aid Fund

1. The Students' Aid Fund was established by Council to meet the case of students who through some unforeseeable and unpreventable financial emergency arising during their course would be unable without some financial assistance to complete their course in the University. It will be necessary for an applicant to give full information as to his sources of income together with an estimate of his expenses. All such information will be treated in strict confidence.

2. Advances are made by way of loans, normally limited to a total of £50, against a signed agreement in which the student undertakes to make firm arrangements before leaving the University for the repayment of the loan within a reasonable period beginning not later than six months after leaving the University. The loans are made free of interest for a period of two years after the completion of the student's course in the University and are thereafter subject to interest at the rate of six per cent per annum.

3. Applications should be addressed to the Registrar from whom forms for the purpose may be obtained.

Medals and Prizes
Prizes awarded in all Faculties

Goodwin Batterson Beach Prize

1. The Goodwin Batterson Beach prize was established in 1962 with funds presented by Dr. Goodwin B. Beach in appreciation of the honour conferred upon him by the University of Leeds and in memory of his grandfather James Goodwin Batterson and of Edward Kennard Rand of Harvard University.

2. The prize, which will be of the value of approximately £15, will be awarded annually by the Senate on the recommendation of the head of the Department of Latin, for the best composition by a student in Latin verse or prose.

3. All students who are reading for a Bachelor's degree of this University are eligible to compete for the prize by submitting a composition not exceeding 100 lines of verse or 1,000 words of prose. A choice of themes will be announced in June each year for competition in the following year.

4. In the event of two compositions of equal merit being submitted Latin verse will outrank Latin prose.

5. If in any year no candidate is deemed to have submitted a composition of sufficiently high standard the prize will not be awarded but the money will be allowed to accumulate and may be used either to increase the value of the prize or to make additional awards in later years.

6. No student who has once obtained the prize may compete a second time.

7. Compositions should be sent to the Registrar not later than 1 May.

Grebenik Prize

1. The prize was established with funds subscribed as a testimonial to Professor Grebenik on his resignation from the chair of social studies in 1969.

2. The prize, of approximately £30, may be awarded by the Senate every third year to an undergraduate or postgraduate student of the University or to a graduate of the University of not more than three years' standing, for an essay on any aspect of human population problems.

3. If no essay of sufficient quality is submitted the interest shall be added to the capital.

Milne Prize in Celtic studies

1. The Leeds Caledonian Society, in 1951, gave £300 to endow a prize to promote interest in Celtic studies and to commemorate Emeritus Professor W. P. Milne's long association with the University and with the Society.

2. The prize which is of the value of £9 will be awarded annually by the Senate, on the recommendation of a committee which will include the chairman of the scholarships committee, the professors of English language, French and medieval history, together with such other persons as the committee may deem it necessary to co-opt.

3. All registered students in the University are eligible to compete for the prize by submitting an essay, not exceeding 5,000 words, on some aspect of Celtic studies either prescribed by the committee or selected by the candidate and approved by the committee.

4. In the event of the committee not considering any entry of sufficient merit the prize will be available for award in a subsequent year.

5. Essays must be sent to the Registrar not later than 1 May each year.

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Bold figures relate to Part I. Light figures Part II.

Passey Prize in art

1. The Passey prize in art was instituted in 1954, with funds subscribed as a testimonial to Emeritus Professor Passey who retired from the chair of experimental pathology and cancer research in 1953.

2. The prize, which is of an approximate value of £15, is awarded every *third year for the best original work of art in painting, sculpture, ceramics or graphic art submitted by a full-time student of the University.

3. The prize shall be awarded by the Senate on the recommendation of the head of the Department of Fine Art.

4. Works submitted must reach the head of the Department of Fine Art not later than 1 May in the year of award.

Ripon English Literature Prize

1. The Committee formed to obtain for the University by subscriptions a portrait of the late Chancellor, The Most Hon. the Marquess of Ripon, *K.G.*, presented to the University the surplus funds amounting to £180, for investment with a view to providing an annual prize in the subject of English literature to be called the Ripon English Literature Prize.

2. A prize of the value of £7 will be awarded annually.

3. The prize will be awarded in June each year for an essay on some subject connected with English literature. The subjects of the essays will be announced in the preceding June.

4. It will be open to competition among all students of day classes of the University who are in attendance upon University lectures for not less than four hours per week. Dissertations sent in for the degree of Bachelor of Arts upon subjects connected with English literature will be regarded as competing for the essay.

5. No student who has once obtained the prize may compete a second time.

6. No essay, in consideration of which, either wholly or in part, a University fellowship or scholarship shall have been awarded shall be admissible for other than honorary recognition.

7. The essay must be sent to the Registrar not later than 1 May.

8. For the session 1971-72 an essay may be submitted on one of the following subjects:

   (a) Originality in the contemporary novel.

   (b) The work of a poet writing in a Commonwealth country.

'The next award will be made in 1974

Prizes awarded in the Faculty of Arts

Connal Prize

1. Emeritus Professor B. M. Connal, on his retirement from the chair of Latin, presented to the University the sum of £125 with the object of establishing a prize in connection with the Departments of Latin and Greek. A prize of approximately £4.50 will be awarded.

2. The prize will be awarded by the Senate on the joint recommendation of the professors of Latin and Greek in June of each year to the most meritorious student graduating with first-class honours in classics, Latin or Greek.

3. In making the award, preference will be given to students who have graduated with first-class honours in classics. In the event of no suitable candidate being available in this school, the prize will be given to the most deserving student with first-class honours in Latin, and failing such a candidate, to the most deserving student with first-class honours in Greek.

4. If in any year no candidate is placed in the first class no award will be made, and the unexpended sum, together with any accumulated surplus of dividends, shall form a fund to be used by the Senate to give financial assistance to deserving students in the Departments of Latin or Greek.

Edwards Prize

1. The Edwards prize was established in 1951 to commemorate Emeritus Professor W. M. Edwards' tenure of the chair of Greek from 1928 to 1950.

2. The prize, of the value of approximately £3.15, will be awarded by the Senate annually in June on the recommendation of the professor of Greek to the most meritorious candidate in Greek in the final examination for the degree of Bachelor of Arts.

3. The prize shall not be awarded to the winner of the Connal prize. Should the candidate best qualified for the Edwards prize be recommended for the Connal prize, the candidate next in order of merit in Greek will be eligible for award of the Edwards prize.

4. The prize shall not be awarded unless a sufficiently high standard is attained. If in any year it is impossible to recommend an award, the interest accruing in that year shall be added to the capital of the fund.

Forsyth Prize

1. The sum of £238 was subscribed by past scholars of Dr. David Forsyth, for many years headmaster of the Leeds Central High School, for the endowment of a Forsyth prize at the University. A prize of £6 will be awarded annually under the following conditions:

2. All students, both men and women, who have completed an honours course in arts or science with the intention of becoming teachers in high or secondary schools are eligible.

3. Preference will be given to those candidates who have taken their preliminary education in Leeds high or secondary schools.

4. The prize will be awarded by the Senate in June of each year on the results of the examination for the Graduate Certificate in Education.

Harvey Prize

1. The Harvey prize was instituted with funds (including a testimonial fund subscribed by members of the University) presented by Emeritus Professor Harvey on his retirement from the chair of philosophy in 1954.
2. The prize, which is of an approximate value of £5, is awarded by Senate annually in June on the recommendation of the professor of philosophy to the first-year undergraduate who achieves the best performance in philosophy as part of his or her degree course.
3. In the event of an award not being made in any year the interest will be added to the capital.

Lord Snowden Prize

1. The Lord Snowden Endowment Fund, established with monies subscribed to commemorate the late Right Honourable Philip, Viscount Snowden of Ickornshaw, was given to the University for the teaching or for the encouragement, assistance or advancement of music in the University.
2. The annual income from the fund, approximately £120 a year, has been allocated for the award of travel bursaries and of an annual prize.
3. (a) The Lord Snowden prize of the value of £15, will be awarded annually by the Senate to the student reading either for the degree of Bachelor of Arts in music or for the degree of Bachelor of Music, who, in the opinion of the professor of music, has produced the most notable achievement in study, composition or other appropriate activity during the session.
(b) A student to whom the prize has been awarded will not be eligible for the award in a subsequent year.
(c) No award will be made unless the Senate, as advised by the professor of music, is satisfied that the candidate's achievement is sufficiently meritorious.

Frank Toothill Prize

1. The Frank Toothill prize was established in 1956 from the proceeds of a bequest by the late Mrs. Toothill in memory of her husband.
2. The prize will be awarded by the Senate, on the recommendation of the West Riding professor of music, to the music student who is judged to have shown the greatest merit in the course of his first year at the University, provided that no award be made in any year unless a sufficiently high standard is attained.
3. The prize is open to students reading for the degree of Bachelor of Arts in music or Bachelor of Arts in a two-subject scheme which includes music.
4. The prize will be of the value of £50, of which £25 is to be devoted to the purchase of musical scores or books on music.

Dorothy Wharton Memorial Prize

See 'Prizes awarded in the Faculty of Economic and Social Studies'.

Lucy Whitmell Italian Prize

1. The Lucy Whitmell Italian prize was established in 1919 by Mr. Charles T. Whitmell in memory of his wife.
2. A prize of books to the value of £10 will be awarded each year by the Senate on the recommendation of the head of the Department of Italian Language and Literature to the student who shows the greatest merit in the subject of Italian in the final examination leading either to the degree of Bachelor of Arts in Italian, or to the degree of Bachelor of Arts in modern languages and literatures or in a two-subject scheme.
3. If in any year there is not a suitable candidate, the interest accruing in that year shall be added to the capital of the fund.

Williamson Travel Bursary

See 'Prizes awarded in the Faculty of Economic and Social Studies'.

Prizes awarded in the Faculty of Economic and Social Studies

Free Press Prize

Through the generosity of Collier-Macmillan Ltd. a prize of books to the value of £25, to be known as the Free Press Prize, is offered annually to a student who shows conspicuous merit in the subject of sociology. The prize will be awarded by the Senate on the recommendation of the head of the Department of Social Studies to the student who shows the greatest merit in sociology in the final examination leading to the degree of Bachelor of Arts in sociology, or to the degree of Bachelor of Arts in combinations in which sociology is one of the subjects. It will be awarded only if there is a suitable candidate.

Gerald Veale Prize

1. The Gerald Veale prize was established in 1951 as a memorial to Gerald Cater Veale, Doctor of Laws *honoris causa*, and a Fellow of the Institute of Chartered Accountants who was Pro-Chancellor of the University from 1946 to 1949, chairman of the finance committee from 1940 to 1946 and for 23 years a member of the Council.

2. The prize, which will be of the value of approximately £9, will be awarded annually by the Senate after consideration of the results in the final examination for the degree of Bachelor of Commerce.

3. All candidates for the degree of Bachelor of Commerce with accountancy as a principal subject will be eligible for the award. Other things being equal, preference will be given to a candidate who is articled to a chartered accountant but failing such a candidate preference will be given to any other articled pupils taking the course.

4. The prize will not be awarded unless a sufficiently high standard is attained. If in any year it is impossible to recommend an award, the interest accruing in that year shall be added to the capital of the fund.

Dorothy Wharton Memorial Prize

1. A fund of £206 was subscribed by scholars and friends of the late Miss Dorothy Wharton, for many years geography mistress at Leeds Thoresby High School, for the purpose of encouraging the study of geography in the University. The annual income from the fund is approximately £8, and a prize of this amount, or its equivalent in books, will ordinarily be awarded each year, upon the recommendation of the head of the Department, to the most meritorious woman student:

(a) reading for the degree of Bachelor of Arts, or Bachelor of Science in geography

or (b) reading geography as a main subject for a two-subject degree in arts or for a combined studies degree in science.

2. The prize shall not be awarded unless a sufficient standard of merit has been attained.

3. If in any given year no recommendation is made, the interest on the money shall be allowed to accumulate and used to supplement the income in a subsequent year or years.

Wheeler Memorial Fund

1. A sum of approximately £30 is available each year to provide three prizes of books from a fund instituted in 1946 to commemorate the services to the University and the practical interest in the social work of the city of Leeds of Archibald Edward Wheeler, Registrar from 1912 to 1944.

2. The endowment of £1,000 was provided by contributions from members of the Leeds Luncheon Club, the Leeds Rotary Club, the University and the Leeds Young Men's Christian Association.

3. A prize will be awarded annually by the Senate on the recommendation of the head of the Department of Social Studies to each of the following:

(a) to a student in the Faculty of Economic and Social Studies, taking sociology and politics in the first-year examination;

(b) to a student taking the final examination for the degree of Bachelor of Arts in sociology or in political studies or in combinations of which sociology or politics form a part;

provided that any of these awards may be withheld if none of the candidates attains a sufficiently high standard.

Williamson Travel Bursary

1. Emeritus Professor A. V. Williamson on his retirement in 1953 presented to the University the sum of £191, being the amount of a testimonial fund subscribed by colleagues and friends to commemorate his thirty-one years service in the Department of Geography in the course of which he came to be the first holder of a chair in the subject at Leeds. In accordance with the wishes of the donor the interest on the fund is used to assist students in geography to travel outside the British Isles.

2. The bursary, of the value of approximately £10, will be awarded by Senate on the recommendation of the head of the Department of Geography to a student (a) reading for the degree of Bachelor of Arts or Bachelor of Science in geography, or (b) reading geography as a main subject for a two-subject degree in arts or for a combined studies degree in science.

3. The bursary will be offered in June every alternate year, commencing in 1957. If in any year no recommendation is made the interest accruing in that year may be used to supplement the amount of the bursary awarded in a subsequent year.

Prizes awarded in the Faculty of Law

Batt Prize

1. The Batt prize was established in 1962 with funds presented by Mrs. A. H. Batt in memory of her husband K. F. Batt, a student in the Department of Law from 1959 to 1962.

2. The prize, which will be of the value of approximately £5, will be awarded annually by the Senate on the recommendation of the head of the Department of Law, to the most meritorious candidate in the final examination in criminal law.

3. If in any year no candidate is deemed to have reached a sufficiently high standard the prize will not be awarded and the interest accruing in that year will be added to the capital of the fund.

Margaret Simpson Harrison Prize

This prize shall consist of money or books to the value of £10, and will be awarded by the Senate on the recommendation of the head of the Department of Law to the most successful candidate in the examination held for second-year students for the degree of Bachelor of Laws provided that no such prize will be awarded unless the examiners are satisfied that there is a candidate of sufficient merit to justify the making of an award.

Margaret Simpson Harrison Graduation Prizes

These prizes shall consist of money or books to the value of £5 each, and will be awarded by the Senate on the recommendation of the head of the Department of Law to the most successful candidate in each of the following subjects of the final examination for the degree of Bachelor of Laws: Common law (contract and torts), Equity, Jurisprudence and Land law.

No prize will be awarded unless the examiners are satisfied that there is a candidate of sufficient merit to justify the making of an award.

Hughes Law Prizes

1. Upon the retirement, in 1951, of Professor J. D. I. Hughes, a fund was raised by contributions from former students, colleagues and members of the legal profession.

2. In accordance with the wishes of Professor Hughes, the income is used by the Senate for making awards as follows:

(a) A prize of law books not exceeding the value of £5, to be awarded on the results of the examination held at the end of the first-year course for the degree of Bachelor of Laws.

(b) A prize not exceeding the value of £10, to be awarded on the results of the final examination for the degree of Bachelor of Laws, provided that only students who have been awarded honours in that examination are eligible for the prize.

(c) A special award, the holder of which shall be known as the Hughes prizeman, to be made in recognition of an exceptionally good performance in the final examination for the degree of Bachelor of Laws. The value of this award in any year will be fixed by the Senate and will vary according to the total income (including any accumulated income) after providing for the prizes in (a) and (b) above; it will in no case be less than £10. In any year when a Hughes prizeman is elected the final honours LL.B. prize (see (b) above) may be awarded to another candidate.

3. The awards will be made by the Senate on the recommendation of the examiners, but none of the above prizes or the special award shall be made in any year unless there are candidates adjudged to be of sufficient merit.

4. Income not expended in any year shall be accumulated.

Prizes awarded in the Faculty of Science

Brodetsky Prize

1. Emeritus Professor S. Brodetsky, on his retirement from the chair of applied mathematics in 1948, presented to the University a sum of £200 to be invested for the purpose of establishing a prize in mathematics.

2. The prize will be awarded by the Senate on the recommendation of the chairman of the School of Mathematics to the student whose work in the final examination for the degree in mathematics is judged to be of the greatest merit.

3. Part or all of the award of the value of approximately £6 shall be used for the purchase of books.

4. The prize will not be awarded in any year unless a sufficiently high standard is attained and in the event of no recommendation being made, the interest on the money shall be added to the capital of the fund.

J. B. Cohen Prize

1. The prize was instituted in 1926 for the encouragement of chemical research from the proceeds of a fund raised to commemorate the services of Julius Berend Cohen in the Department of Organic Chemistry as lecturer from 1891 to 1904, and professor from 1904 to 1925.

2. It is awarded annually by the Senate, on report from the professors of organic chemistry and of inorganic and physical chemistry, to that successful candidate for the degree of Doctor of Philosophy, Master of Philosophy or Master of Science whose thesis or dissertation shall have been adjudged to contain the most valuable contribution to knowledge in the subject of chemistry.

3. The Senate reserves the right to withhold the award of the prize in any year if no thesis or dissertation of sufficient merit has been presented.

4. The value of the prize is approximately £8.

Dawson Prize

1. The Dawson prize was established in 1956 to commemorate the services to the University of Leeds of the late Professor H. M. Dawson, from a fund subscribed by his former colleagues, students and friends.

2. The prize, of the value of approximately £10, will be awarded annually by the Senate on the recommendation of the professor of physical chemistry to an undergraduate or to a student registered for a higher degree of the University for outstanding work in physical chemistry.

3. The prize shall not be awarded unless a sufficiently high standard is attained.

Frank Happold Prize in Biochemistry

1. Professor Happold, on his retirement in 1967, presented to the University a sum of money, subscribed as a testimonial fund by past and present students and members of the staff of the Department of Biochemistry, to commemorate Professor Happold's 21 years' service to the University from the establishment of the chair of biochemistry in 1946.

2. The interest of the fund will be used to provide a prize of approximately £10 to be spent on books.

3. The prize will be awarded annually to the best student in the final examination for the honours degree in biochemistry or in biochemistry in relation to medicine.

4. The prize will be awarded by the Senate on the recommendation of the examiners in biochemistry.

5. If no candidate is of sufficient merit the prize will not be awarded and the interest will be allowed to accumulate. If two candidates are of equal merit the prize may be divided or, if funds permit, two prizes may be offered.

Dorothy Wharton Memorial Prize

See 'Prizes awarded in the Faculty of Economic and Social Studies'.

Whiddington and Stoner Prizes

1. The Whiddington prize was established in 1953 from the proceeds of a fund raised to commemorate the services of Richard Whiddington as Cavendish professor of physics from 1919 to 1951. The Stoner prize was established in 1964 from the proceeds of a fund raised to commemorate the services of Edmund Clifton Stoner as professor of theoretical physics from 1939 to 1951 and Cavendish professor of physics from 1951 to 1963.

2. The prizes will be awarded by the Senate on the recommendation of the chairman of the Department of Physics, to the students graduating with honours (in courses in which physics is a major subject) whose work is judged to be of the greatest merit, provided that a sufficiently high standard is attained.

3. Normally one Whiddington prize and one Stoner prize will be awarded each year, but the prizes will not be awarded to the same student. In awarding the Whiddington prize emphasis will be given to ability in experimental physics and for the Stoner prize to ability in theoretical physics.

4. The awards will be each of the value of approximately £10 and shall be used for the purchase of books.

5. When an award is not made in any year the income will be added to the capital.

Whytlaw-Gray Prize

1. Emeritus Professor R. W. Whytlaw-Gray, on his retirement from the chair of inorganic chemistry, presented to the University the sum of £162 for the endowment of a prize to the value of approximately £4.

2. The prize will normally be awarded annually by the Senate on the recommendation of the professors of chemistry to the student who, having studied chemistry as one main subject, is considered to be the most outstanding graduate of the year.

3. If in any year no candidate is deemed to be of a sufficiently high standard, the prize will not be awarded but the money will be allowed to accumulate for future use.

Prizes and Medals awarded in the Faculty of Applied Science

Avery Prizes in mechanical engineering

1. Three Avery prizes in mechanical engineering were instituted in 1964 by Messrs. W. & T. Avery Limited.

2. *The First and Second Year Avery Prizes*

Two Avery prizes in mechanical engineering, each of the value of £12.50, will be awarded annually by the Senate on the recommendation of the head of the Department of Mechanical Engineering, to those students (one from the first-year course and one from the second-year course in mechanical engineering) deemed to be the best students in the respective courses.

3. *The Avery Graduation Prize*

The Avery graduation prize in mechanical engineering, of the value of £25, will be awarded annually by the Senate, on the recommendation of the head of the Department of Mechanical Engineering, to the student who, in his final year of the mechanical engineering course, is deemed to be of sufficient merit and who has completed project work of outstanding quality.

4. If in any year no candidate for any of the prizes is deemed to be of sufficient merit, the prize or prizes will not be awarded.

5. In the event of there being two candidates of indistinguishable merit, the prize in question will be divided.

Barker Prize Fund

1. The fund was instituted in 1936. On his retirement Emeritus Professor A. F. Barker made over to the University the sum of £250, being the amount of the testimonial fund subscribed by members of the University and others in recognition of his period of tenure of the chair of textile industries. In accordance with the wishes of the donor, the interest on the fund is devoted to the provision of two prizes which are awarded annually.

2. The prizes, of equal value, will ordinarily be awarded each year, one to the student who in the view of the examiners is considered to be the best of those presenting themselves for the final examination for the degree of Bachelor of Science with honours in textile industries, textile chemistry, textile physics or textile engineering, or for the ordinary degree of Bachelor of Science in textile industries, and the other to the best of those presenting themselves for the final examination for the degree of Bachelor of Arts in textile design or in textile management, or for the degree of Bachelor of Commerce with textiles as a principal subject.

3. Either or both of the prizes may be withheld if there are no candidates of sufficient merit in any year.

4. Any income not expended in any year shall be added to the capital of the fund.

5. The fund may be added to from time to time from donations received by the University for the Department of Textile Industries. It is hoped by the donor that in this way it may be possible at a later date to convert the prize into a travelling studentship.

British Oil and Cake Mills Prize

1. The prize was instituted in 1965 by the British Oil and Cake Mills and consists of the interest from the investment of a sum of £300.

2. The prize will be awarded annually to the student submitting the most meritorious farm assessment in fulfilment of the requirements of the final honours degree examination in agriculture or the postgraduate diploma in agriculture (farm management).

3. The award will be made by the Senate on the recommendation of the chairman of the Department of Agricultural Sciences.

4. If no award is made in any year, the interest may be added to the capital.

British Ropes Ltd. Prize in mining

1. Messrs. British Ropes Ltd. present the sum of £20 annually to the Department of Mining and Mineral Sciences for the award of a prize each year.

2. The prize will ordinarily be awarded on the recommendation of the head of the Department of Mining and Mineral Sciences to the most successful candidate in the final examination for the degree of Bachelor of Science in mining (ordinary or honours) but may, in special circumstances, be divided between two candidates.

3. The prize will take the form, wholly or in part, of books and/or instruments.

F. W. Carter Prize

1. The prize was instituted in 1970 by Mrs. E. M. Carter and Professor G. W. Carter, head of the Department of Electrical and Electronic Engineering in the University, in memory of Dr. F. W. Carter, F.R.S. (1870-1952), a distinguished pioneer in the application of mathematics to electrical and mechanical engineering problems.

2. The value of the prize is approximately £25 and it is awarded to the student presenting the best thesis for a higher degree in the Department of Electrical and Electronic Engineering in any given year.

3. The prize is awarded by the Senate on the recommendation of the professors in the Department of Electrical and Electronic Engineering.

4. The award is made annually provided that there is a candidate of sufficient merit.

Comber Prize in agricultural chemistry

1. The prize was founded in 1954 by Mrs. N. Comber from a sum of money presented to her late husband Emeritus Professor N. M. Comber, on his retirement.

2. The prize, of the value of approximately £7, will be awarded annually by the Senate on the recommendation of the chairman of the Department of Agricultural Sciences to the best student in the subject of agricultural chemistry taking the second and third year courses in agricultural chemistry.

3. If in any year no candidate is deemed to be of sufficient merit the prize will not be awarded, but the interest for that year will be added to the capital of the fund.

4. In awarding the prize consideration will be given to the whole of the systematic and practical work of the candidates in the second and third year courses in agricultural chemistry.

5. In the event of there being two candidates of equal merit, the prize shall be divided.

Avery Denison Prize in tribology

1. The Avery Denison prize was instituted in 1967 by Saml. Denison & Son Ltd., of Leeds.
2. The prize amounts to £50 and will be awarded annually to the best student on the post-graduate course leading to the degree of Master of Science in Tribology.
3. The prize will be awarded by the Senate on the recommendation of the head of the Department of Mechanical Engineering.
4. Should there be no candidate of sufficient merit in any year the prize will not be awarded and the prize money may be used to make additional awards in subsequent years.

Dorman Long Prize in civil engineering

1. The Dorman Long prize was instituted in 1961 by Messrs. Dorman Long (Bridge and Engineering) Ltd., Middlesbrough.
2. The prize will be awarded to the student of civil engineering who, at the end of the final year course, is judged to show most promise in the design of steel structures.
3. The award will be made by the Senate annually on the recommendation of the head of the Department of Civil Engineering, provided that there is a candidate of sufficient distinction. If in any year no award is made the prize money will be allowed to accumulate and used to make additional awards in subsequent years.
4. The award will consist of books or instruments to the value of £10.

George Earle Prizes

1. The George Earle prizes were instituted in 1966 by G. & T. Earle Ltd., Hull, cement manufacturers.
2. The prizes will be awarded to students of civil engineering—one in the penultimate and one in the final year—who have given the best performances in those subjects dealing with reinforced concrete construction; the assessment will include not only written papers but also laboratory work and design work in the drawing office.
3. The awards will be made by the Senate annually on the recommendation of the head of the Department of Civil Engineering, provided that there are candidates of sufficient distinction. If in any year no award is made the prize money will be allowed to accumulate and may be used to make additional awards in subsequent years.
4. The awards, to the value of £5.25 each, will take the form of books relating to reinforced concrete construction, to be chosen from a list supplied by the donors.

R. H. Evans Prize in civil engineering

1. The R. H. Evans prize was instituted in 1968 from a sum of money presented by past students of the Department of Civil Engineering to Professor Evans on his retirement as head of the Department of Engineering and Professor of Civil Engineering.
2. The prize will be awarded on the recommendation of the head of the Department of Civil Engineering for outstanding achievement in non-academic aspects of University life.
3. The award will be made by the Senate annually, provided that a candidate of sufficient distinction is eligible. If in any year no award is made, the prize money will be allowed to accumulate and will be used to make additional awards in subsequent years.
4. The award to the value of £20 is to be spent in a manner proposed by the student and approved by the head of the Department.

Graduation Prize in Control Engineering

1. The prize was instituted in July, 1970, the date when students first graduated with the degree of Bachelor of Science with honours in control engineering.
2. The value of the prize is £25, and it is awarded to the student giving the best academic performance in the final examination for the degree of Bachelor of Science with honours in control engineering.

3. The prize is awarded by the Senate on the recommendation of the heads of the Departments of Mechanical Engineering and of Electrical and Electronic Engineering.

4. The award is made annually provided that there is a candidate of sufficient merit.

Heseldin Prizes in civil engineering

1. Two prizes were instituted in 1969 by George Heseldin, Master of Science of the University.

2. The prizes will be awarded to two students who, in the opinion of the head of the Department of Civil Engineering, have shown outstanding ability in the second year of the scheme of study leading to the degree of Bachelor of Science with Honours in Civil Engineering.

3. The awards will be made by the Senate annually, provided that candidates of sufficient merit are eligible. If in any year an award is not made the prize money will be allowed to accumulate and will be used to make additional awards in subsequent years.

4. The value of each prize is £25, to be spent in a manner initially proposed by the student and approved by the head of the Department.

Heseldin Graduate Prize in civil engineering

1. The Heseldin prize was instituted in 1945 by George Heseldin, Master of Science of the University.

2. The prize will be awarded to the student of civil engineering who, at the end of the final year of the course, will in the opinion of the head of the Department of Civil Engineering make the best practical civil engineer.

3. The award will be made by the Senate annually.

4. The value of the prize is £50, to be spent in a manner initially proposed by the student, subject only to the approval of the head of the Department.

Holst Prize in civil engineering

1. The Holst prize was instituted in 1960 by Messrs. Holst and Company Ltd., Leeds and Watford.

2. The prize will be awarded to the student of civil engineering who, at the end of the final-year course, is judged to show most promise in the design and detailing of civil engineering structures.

3. The award will be made by the Senate annually on the recommendation of the head of the Department of Civil Engineering, provided that a candidate of sufficient distinction is eligible. If in any year no award is made the prize money will be allowed to accumulate and used to make additional awards in subsequent years.

4. The award will consist of books or instruments to the value of £10.

Imperial Chemical Industries Ltd. Prizes in mining

1. Two prizes are awarded annually by Imperial Chemical Industries Ltd. to students of the Department of Mining and Mineral Sciences.

2. The sum of £15 shall be allotted annually at the discretion of the head of the Department.

3. The sum shall be allotted as follows: £10 to the student who does best in the final examination in mining; £5 to the student who does best in surveying, including field work, drawing office and theory.

4. No student shall be awarded both prizes at any time.

5. No student shall be eligible unless he has had at least six months' practical experience in a mine.

Lawrence Ingle Prize

1. The Lawrence Ingle prize was endowed in 1951 by Mr. Lawrence Ingle of Messrs. W. L. Ingle & Sons, Ltd., of Churwell, and consists of books to the value of £6.

2. The prize will be awarded annually for the most meritorious research carried out by a student for the degree with honours in leather science and will be based on the written account of the problem submitted to the examiners.

3. All students in the Procter Department of Food and Leather Science who are in the final year of schemes of study leading to the degree of Bachelor of Science with honours in leather science are eligible to compete.

4. The award will be made by the Senate on the recommendation of the head of the Procter Department of Food and Leather Science.

5. If in any year no award is made the income for that year will become available for award in a subsequent year, in the event of two accounts of equal merit being submitted.

The Institute of Food Science and Technology Prize

1. The prize was instituted in 1970 by the North of England branch of the Institute of Food Science and Technology.

2. The prize consists of book tokens to the value of £10 and is awarded to the student achieving the best academic performance in the final examination for the degree of Bachelor of Science with honours in food science.

3. The prize will be awarded by the Senate on the recommendation of the Procter Professor of Food and Leather Science.

4. The award will be made annually provided that there is a candidate of sufficient merit.

British Steel Corporation Prize

1. This prize was instituted in 1965 by the British Iron and Steel Federation, at the suggestion of the Council of the Iron and Steel Institute.

2. The prize, of the value of £30, will be awarded annually by the Senate on the recommendation of the head of the Department of Metallurgy, to the student who, in his undergraduate course, has done work of conspicuous merit in a branch of his subject related to the production or use of iron and steel.

3. Should there be no candidate of sufficient merit in any year, the prize will be withheld.

Leblanc Medal

1. The Leblanc Memorial committee presented the Victoria University with a portion of the surplus from the fund raised in France for the erection of a statue of the distinguished chemist Nicholas Leblanc, the amount to be devoted to the encouragement of the study of chemistry. On the foundation of a separate university in Leeds a share of the fund was vested in the University of Leeds.

2. A Leblanc medal may be awarded by the Senate on the recommendation of the appropriate head of department, to a student showing special distinction in the final examination for the degree of Bachelor of Science with honours in fuel science, fuel engineering, chemical engineering, metallurgy, colour chemistry, food science or leather science. Not more than one medal will be awarded each year.

New Foundation Prize in mechanical engineering

1. The New Foundation Prize in mechanical engineering was subscribed in 1963 by former students of mechanical engineering to commemorate the opening of the new building.

2. The prize, which is of the approximate value of £30, will normally be awarded annually to the final-year student of mechanical engineering who is judged to have shown the greatest merit during his course at the University.

3. The prize shall be awarded by the Senate on the recommendation of the head of the Department of Mechanical Engineering.

4. Should no award be made in any year, the interest will be added to the capital.

Seton Prize Fund

1. The local Royal Show committee under the chairmanship of Sir Harold Mackintosh, which was appointed to raise and administer the local fund in connection with the annual show of the Royal Agricultural Society held at Harrogate in 1929, on winding up the fund, decided to present to the University of Leeds in recognition of the work of the Department of Agriculture, a sum of £338 19s. 10d., being one quarter of their surplus. This sum has been supplemented by various donors including Emeritus Professor and Mrs. Seton who made a joint gift of £100 to the University which was added by the Council to the prize fund. The prizes will be awarded under the following conditions:

2. Two prizes of equal value will ordinarily be awarded in each year, one to a student completing the three-year course for the Bachelor of Science degree in agriculture and one to a student completing a degree course with honours in agriculture, in one of the agricultural sciences, or in agricultural economics. The awards will be based on the results of final degree examinations, but departmental examinations and the class record of the student may also be taken into account.

3. In special circumstances the University may award more than two prizes. In the event of there being no candidate of sufficient merit in any year either prize will be withheld.

4. The whole of the annual income of the fund shall be utilised for the purpose, provided that the value of each prize shall not exceed £15.

5. Any income not expended in any year shall be added to the capital of the fund.

6. The fund may be added to from time to time from donations received by the University for the Departments of Agricultural Sciences or of Agricultural Economics.

Worshipful Company of Skinners' Silver Medal

1. The Worshipful Company of Skinners of the City of London, whose generosity made possible the erection in 1899 of the building for the Department of Leather Industries, decided in 1952 to provide annually a silver medal to be awarded to a student of the Department.

2. The medal will be awarded by the Skinners' Company on the recommendation of the Senate to the student who, in the opinion of the Procter Professor of Food and Leather Science, has most successfully completed his studies in the Department.

3. A student to whom the medal has been awarded will not be eligible for the award in a subsequent year.

Steelwork Society Prize

1. The prize was instituted in 1966 by the Steelwork Society.

2. The prize will be awarded for the best performance by a final-year student in the written papers, laboratory work and design relating to steelwork.

3. The award will be made by the Senate annually on the recommendation of the head of the Department of Civil Engineering, provided that there is a candidate of sufficient distinction. If in any year no award is made the prize money will be allowed to accumulate and may be used to make additional awards in subsequent years.

4. The value of the award is £20.

Whetton Prize in mining

1. The prize was founded in 1961 from a sum of money presented to Emeritus Professor J. T. Whetton by his colleagues and friends of the University on his retirement.

2. The prize will be awarded annually to a final-year student who shows the greatest merit in his presentation of the whole of the practical work in mining and surveying submitted for the final examination. The award will be made by the Senate on the recommendation of the head of the Department of Mining and Mineral Sciences, provided that there is a candidate of sufficient distinction.

3. The award will consist of books to an approximate value of £5.25.

Yorkshire Agricultural Society Medal

1. In 1948 the Yorkshire Agricultural Society offered to provide each year a silver gilt medal for award to the student who acquitted himself, particularly in the subject of agriculture, with greatest distinction throughout the degree course.

2. The award will be made by the Senate on the recommendation of the professors of the School. A high academic standard will be required, but all relevant personal qualities will be taken into consideration and the recommendation will not be based upon examination results alone.

Yorkshire Switchgear Prize and George Caton Prize in electrical and electronic engineering

1. The Yorkshire Switchgear and George Caton prizes were instituted in 1964 by the Yorkshire Switchgear and Engineering Company Limited, Leeds, and by Mr. George Caton, M.I.E.E., Chairman and Managing Director.

2. The Yorkshire Switchgear prize will consist of books or instruments to the value of £10, and will be awarded to the student who is judged to be the most outstanding graduate of the year in the honours school of electrical and electronic engineering.

3. The George Caton prize will consist of books or instruments to the value of £10, and will be awarded to the student graduating with honours in electrical and electronic engineering who is judged to have exhibited the most outstanding performance in the project or dissertation required as part of the final examination.

4. Should the same student be eligible for both prizes, he shall be awarded the Yorkshire Switchgear prize and the George Caton prize shall be awarded to the student who gave the next best performance in the project or dissertation.

5. The awards will be made by the Senate annually on the recommendation of the head of the Department of Electrical and Electronic Engineering, provided that candidates of sufficient distinction are available. If in any year no award is made the prize money will be allowed to accumulate and may be used to make additional awards in subsequent years.

6. In the event of there being more than one candidate of sufficient distinction for the award of either prize, the funds available may be applied to the award of additional prizes of either type.

Yorkshire Union of Institutes Prize Fund

1. A prize of the approximate value of £4 will be awarded each year from a fund provided by the Yorkshire Union of Institutes. It will be associated in alternate years with the names of Jabez Woolley and James Hole.

2. The prize will be awarded by the Senate on the recommendation of the professors of engineering in June each year to the most meritorious student with first-class honours in civil, mechanical, or electrical and electronic engineering.

Prizes and Medals awarded in the Faculty of Medicine

Birkett Prize

1. The prize, of the value of about £3, is awarded annually after a report from the examiners on the results of the second examination for the degrees of Bachelor of Medicine and Bachelor of Surgery to the candidate who is placed *proxime accessit* to the candidate or candidates awarded the Infirmary prize, always provided that he obtains an honours mark in at least one subject of the examination.

Fattorini Medal and Prize in clinical psychiatry

1. The Fattorini Medal and Prize were established in 1961, by Mr. J. Fattorini, *M.B.E.*, *T.D.*, J.P., a member of the Leeds Regional Hospital Board.

2. The medal and a prize of £30 are awarded annually on the results of an examination which is normally held in May. Candidates who satisfy the examiners in the written paper will be required to take a clinical and oral examination in addition.

3. No award may be made in any year in which a sufficiently high standard is not attained.

4. Candidates must have taken the whole of the clinical course in Leeds. They must be in the final year or have obtained a medical qualification within the preceding twelve months.

5. Entries for the examination must be submitted to the Dean of the Faculty of Medicine by 15 April each year.

James and Mabel Gaunt Prize

1. Dr. Maria Lambert Beldon, a graduate of the University who died in 1954, bequeathed the sum of £500 to the University to endow a prize in paediatrics, to be known as the James and Mabel Gaunt prize, the prize to be awarded to the best student of the year in paediatrics.

2. The prize, of the value of approximately £15, will be awarded annually by the Senate on the result of an examination in paediatrics which will normally be held in May, provided that no award may be made in any year unless a sufficiently high standard is attained.

3. Candidates must be students in the School of Medicine who will be eligible to present themselves for their final (qualifying) examination in the calendar year in which they enter for the prize.

4. The examiners shall be the professor of paediatrics and child health, the professor of public health and one other person appointed annually by the Board of the Faculty of Medicine.

5. Entries for the examination must be submitted to the Dean of the Faculty of Medicine by 15 April.

Frank Happold Prize in Biochemistry

See 'Prizes awarded in the Faculty of Science'.

Hardwick Prize in clinical medicine

1. The prize was founded in 1865 with subscriptions raised among friends of the late Dr. Robert George Hardwick, an active member of the Council of the Leeds School of Medicine from 1861 to 1864.

2. The prize, of the approximate value of £10, is awarded annually on the results of an examination which is normally held in May. Candidates who satisfy the examiners in the written paper will be required to take a clinical and oral examination in addition.

3. Candidates must have been students in the School of Medicine of the University of Leeds for not less than eight terms. They must be attending the medical practice of the United Leeds Hospitals and they must have held or be then holding the office of clinical clerk in that institution.

4. Entries for the examination must be submitted to the Dean of the Faculty of Medicine by 15 April.

Stephen D. Hey Prize

1. Mr. Stephen D. Hey, L.D.S.R.C.S. Eng., (one time member of the Dental School and Hospital at Leeds) provided in his will the sum of £500 to be invested by the University so that a dental prize should be awarded annually to the best dental operator in conservative dentistry in the final year in the University of Leeds Dental School. The present value of the prize is approximately £20.

2. The award will be made by the Senate on the recommendation of the Board of Dental Studies.

3. The prize will be awarded to the student who has carried out the most satisfactory work in conservative dentistry during the final year of the course. The student's work in the clinical part of the final examination may be taken into consideration.

William Hey Medal

1. The late Lord Moynihan presented to the University the sum of £200 for investment to provide a medal for the most distinguished graduate with honours in the list of Bachelors of Medicine and Bachelors of Surgery of the calendar year.

2. The award will be made by the examination committee in June on the results of the final examination for the degrees of Bachelor of Medicine and Bachelor of Surgery and on a consideration of the student's general standing, record and character. Results of the second, third and fourth examinations for the degrees will also be taken into consideration and the successful student must have displayed qualities of such an order as to entitle him to special distinction.

3. If two candidates show special merit and the funds of the trust allow, the examiners may recommend a double award.

Hillman Prize in clinical medicine

1. Under the will of the late Dr. G. B. Hillman the University received in 1932 a legacy of £1,000 for the establishment of a prize to be known as the Hillman Prize in clinical medicine.

2. The prize, of the value of approximately £30, will be awarded annually in June for the best dissertation submitted on a medical subject chosen by the candidate.

3. Candidates must normally have taken the whole of the clinical course in Leeds and be in the final year or have obtained a medical qualification within the preceding twelve months.

4. The dissertation should be illustrated by case notes. The candidate need not confine himself to cases which were assigned to him during his period of clerkship or under his care as house physician but the notes must be written by the candidate himself and record his personal observations. The notes should include details of the patient's progress in hospital and after discharge from hospital. The dissertation, which should be in typescript, must not normally exceed a total of 5,000 words and should be submitted to the Dean of the Faculty of Medicine by 15 April.

Infirmary Prize

1. This prize was originally founded as a scholarship in 1888 by the Faculty of the General Infirmary at Leeds. It is of the value of approximately £75.

2. The prize is awarded by the Senate after a report from the examiners on the result of the second examination for the degrees of Bachelor of Medicine and Bachelor of Surgery of the University.

Jamieson Medal and Prize in practical anatomy

1. In 1949, Mr. John G. Jamieson and Miss Barbara Jamieson presented to the University the sum of £100, to which was added the sum of approximately £750 subscribed by friends, to provide a medal in memory of Professor J. K. Jamieson, professor of anatomy in the University of Leeds from 1910 to 1936.

2. The medal will be awarded by the Senate annually in June on the recommendation of the professor of anatomy, to the student with the best record in practical anatomy during the period spent in preparation for the second examination for the degrees of Bachelor of Medicine and Bachelor of Surgery.

3. In addition the student to whom the medal is awarded will receive a prize of approximately £15.

Charles and Eleanor Knowles Prize in children's dentistry

1. In 1966 Miss Eleanor Knowles, *O.B.E.*, L.D.S., gave to the University the sum of £500 on behalf of herself and her brother, the late Charles Knowles, L.D.S., to be used to provide a prize for an essay on children's dentistry. The prize shall be awarded biennially and be of the value of approximately £40.

2. To be eligible for the prize candidates must be graduates or licentiates in dental surgery of the University of Leeds or other universities or licensing authorities in the United Kingdom and have been registered as dental practitioners for not more than five years at the time of the award.

3. The prize shall be awarded to the person who submits the most meritorious essay on an aspect of dental health in children up to the age of ten years. The material submitted should consist of personal research or observation and should not have been previously published. The essay shall be no longer than 6,000 words and shall be in a form suitable for publication.

4. The prize shall be awarded by the Senate of the University on the recommendation of a committee set up by the Board of Dental Studies for the purpose. Notice of the prize shall be given in the national and dental press at least twelve months prior to the award and candidates should submit their names by 1 December in the year preceding the award. The closing date for submission shall be 1 June.

5. In the event of there being no award, Senate shall be empowered to recommend that a maximum of two prizes may be awarded on a subsequent occasion.

Percy Leigh Medal

1. Mr. P. T. Leigh, L.D.S. (Leeds and Glasgow), R.C.S. (England), in 1929 presented to the University to encourage the science and art of dental mechanics the sum of £105 to provide a medal to be awarded annually to a student in the dental mechanics laboratory of the Dental School. In addition to the medal, the award includes a prize of £5.

2. The award will be made by the Senate on the recommendation of the Board of Dental Studies.

3. The award will be based on the result of an examination in dental mechanics. The results of the professional examination in dental mechanics and the properties of dental materials may be taken into consideration. A high standard of skill must be shown.

4. No student will be permitted to compete for the award more than once.

5. If two candidates are equally deserving, two awards may be made.

6. A certificate of merit may be awarded to students who reach a sufficiently high standard in the examination.

Percy Leigh Prize in clinical dental surgery

1. Mr. P. T. Leigh, L.D.S. (Leeds and Glasgow), R.C.S. (England), to mark his year of office (1935-36) as Lord Mayor of Leeds, presented to the University the sum of £100 to provide annually a prize in the subject of clinical dental surgery. The value of the prize is £6.

2. The award will be made by the Senate on the recommendation of the Board of Dental Studies.

3. The prize will be awarded on the result of an examination in clinical diagnosis, including clinical pathology and bacteriology and the interpretation of radiographs. A high standard of proficiency must be attained by the successful candidate.

4. Candidates must be students of the University of Leeds who are in the final year of a normal curriculum for the degree of Bachelor of Dental Surgery and no candidate may compete more than once for the prize.

Littlewood Prize in anatomy

1. The late Colonel H. Littlewood, formerly professor of surgery in the University, bequeathed a legacy of £1,000 to be applied for providing a prize in the Department of Anatomy every year or in alternate years.

2. This prize will be awarded on the result of the examination in anatomy for the second examination for the degrees of Bachelor of Medicine and Bachelor of Surgery in June each year, provided that the candidates have attended the full course of anatomy in the University, and that students for other qualifications who have attended the full course be permitted to compete for the prize.

McGill Prize in surgery

1. A sum of approximately £315 collected as a memorial to Professor A. F. McGill was accepted by the Yorkshire College in 1892 and applied as part of the medical school building fund. At the same time it was decided to set aside a sum of £10 annually for the award of McGill prizes.

2. The prize is awarded annually by the Senate in June after a report from the examiners of the final M.B., Ch.B. examination in surgery.

3. Candidates must be students in the School of Medicine of the University of Leeds in their final year. Entries from those who are not candidates for the final M.B., Ch.B., examination must be submitted to the Dean of the Faculty of Medicine by 15 April.

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