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UNIVERSITY
ARCHIVES



CALENDAR, 1960-61

INDEX

UNIVERSITY OF LEEDS
CALENDAR

1960-61

Published in November, 1960

**UNIVERSITY
LIBRARY,
LEEDS**

*Printed in Great Britain by
Jowett & Sowry Ltd.
Leeds, 1*

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ALMANAC

SESSION 1960-61

1ST TERM Tuesday, 4 October
Friday, 16 December

2ND TERM Tuesday, 10 January
Friday, 17 March

3RD TERM Tuesday, 18 April
Friday, 30 June

SESSION 1961-2

1ST TERM Tuesday, 3 October
Friday, 15 December

ALMANAC

OCTOBER 1960

- | | | | |
|----|-----|---|---|
| 1 | S. | | |
| 2 | S. | | |
| 3 | M. | Admission of students | |
| 4 | Tu. | FIRST TERM BEGINS
Admission of students | |
| 5 | W. | Senate, 2 p.m. | |
| 6 | Th. | Masterships Committee, 4-5 p.m. | |
| 7 | F. | | |
| 8 | S. | Board of Extra-Mural Studies, 10 a.m. | |
| 9 | S. | | |
| 10 | M. | Ph.D. Committee, 4.15 p.m. | <i>Public Lecture</i> |
| 11 | Tu. | Finance Committee, 2.15 p.m.
Board of the Faculties of Arts, Economic and Social Studies and Law, 5 p.m. | |
| 12 | W. | | |
| 13 | Th. | M.Sc. Committee, 4 p.m. | |
| 14 | F. | | <i>Medical Inaugural Lecture</i> |
| 15 | S. | | |
| 16 | S. | | |
| 17 | M. | | <i>Public Lecture</i> |
| 18 | Tu. | Board of the Faculty of Medicine, 5 p.m. | |
| 19 | W. | Council, 2.15 p.m. | <i>Chamber Music Concert</i> |
| 20 | Th. | Board of the Faculties of Science and Technology, 5 p.m. | <i>Midday Recital</i> |
| 21 | F. | Library Committee, 4 p.m. | |
| 22 | S. | | |
| 23 | S. | | |
| 24 | M. | | <i>Institute of Education Service
Clive Behrens Lecture</i> |
| 25 | T. | | |
| 26 | W. | Senate Business Committee, 2 p.m. | |
| 27 | Th. | | <i>University Lecture</i> |
| 28 | F. | | <i>Midday Recital</i> |
| 29 | S. | | |
| 30 | S. | | <i>University Sermon</i> |
| 31 | M. | | <i>Midday Recital
Clive Behrens Lecture
Art Lecture</i> |

ALMANAC

NOVEMBER 1960

- | | | | |
|----|-----|---|---|
| 1 | Tu. | Last day for receipt of theses for examination in December
Medical Library Sub-Committee, 5 p.m. | <i>Public Lecture</i> |
| 2 | W. | Senate, 2 p.m. | |
| 3 | Th. | Masterships Committee, 4.5 p.m. | <i>Mid-Week Service</i> |
| 4 | F. | | <i>Midday Recital</i> |
| 5 | S. | | |
| 6 | S. | | |
| 7 | M. | Applications Committee, 4 p.m. | <i>Midday Recital</i>
<i>Clive Behrens Lecture</i> |
| 8 | Tu. | Board of the Faculties of Arts, Economic and Social Studies and
Law, 5 p.m. | |
| 9 | W. | Finance Committee, 2.15 p.m. | |
| 10 | Th. | M.Sc. Committee, 4 p.m. | |
| 11 | F. | | <i>Lecture-Recital</i> |
| 12 | S. | | |
| 13 | S. | | |
| 14 | M. | Ph.D. Committee, 4.15 p.m. | <i>Clive Behrens Lecture</i> |
| 15 | Tu. | Board of the Faculty of Medicine, 5 p.m. | <i>Montague Burton Lecture</i>
<i>Public Lecture</i> |
| 16 | W. | Council, 2.15 p.m.
Court, 3.30 p.m. | <i>Chamber Music Concert</i> |
| 17 | Th. | Board of the Faculties of Science and Technology, 5 p.m. | |
| 18 | F. | Library Committee, 4 p.m. | <i>Midday Recital</i> |
| 19 | S. | | |
| 20 | S. | | |
| 21 | M. | | <i>Clive Behrens Lecture</i>
<i>Public Lecture</i> |
| 22 | Tu. | Joint Committee of Council and Senate on Halls of Residence,
4 p.m. | <i>Midday Recital</i>
<i>Public Lecture</i> |
| 23 | W. | Senate Business Committee, 2 p.m. | |
| 24 | Th. | | <i>University Lecture</i> |
| 25 | F. | | <i>Lecture-Recital</i> |
| 26 | S. | | |
| 27 | S. | | |
| 28 | M. | | <i>Lecture-Recital</i>
<i>Inaugural Lecture</i>
<i>Public Lecture</i> |
| 29 | Tu. | | |
| 30 | W. | | |

DECEMBER 1960

1	Th.		<i>Midday Recital</i>
2	F.		
3	S.		
4	S.		
5	M.	Applications Committee, 4 p.m.	<i>Art Lecture</i>
6	Tu.	Board of the Institute of Education, 2.30 p.m.	
7	W.	Senate, 2 p.m.	<i>Music Society Concert</i>
8	Th.	M.Sc. Committee, 4 p.m. Masterships Committee, 4.5 p.m.	
9	F.		
10	S.		
11	S.		
12	M.	Ph.D. Committee, 2 p.m.	<i>Carol Singing</i>
13	Tu.	Board of Extra-Mural Studies, 2.15 p.m. Union Building Advisory Committee, 2.30 p.m. Board of the Faculties of Arts, Economic and Social Studies and Law, 5 p.m.	
14	W.	Finance Committee, 2.15 p.m.	
15	Th.	Board of the Faculties of Science and Technology, 5 p.m.	
16	F.	FIRST TERM ENDS	
17	S.		
18	S.		
19	M.		
20	Tu.		
21	W.	Council, 2.15 p.m.	
22	Th.		
23	F.		
24	S.	University buildings closed	
25	S.	Christmas Day	
26	M.	University buildings closed	
27	Tu.	University buildings closed	
28	W.	University buildings closed	
29	Th.		
30	F.		
31	S.		
10			

JANUARY 1961

1	S.	
2	M.	
3	Tu.	
4	W.	
5	Th.	
6	F.	
7	S.	
8	S.	
9	M.	
10	Tu.	SECOND TERM BEGINS
11	W.	
12	Th.	
13	F.	
14	S.	
15	S.	
16	M.	<i>Public Lecture</i>
17	Tu.	Board of the Faculty of Medicine, 5 p.m.
18	W.	
19	Th.	<i>Lecture-Recital</i>
20	F.	<i>Midday Recital</i>
21	S.	
22	S.	
23	M.	
24	Tu.	<i>Public Lecture</i>
25	W.	Senate Business Committee, 2 p.m. <i>Orchestral Concert</i>
26	Th.	<i>Midday Recital</i>
27	F.	Last day for entry for examinations to be held in March and June other than medical and dental examinations held in June.
28	S.	
29	S.	
30	M.	<i>Public Lecture</i>
31	Tu.	

ALMANAC

FEBRUARY 1961

1	W.	Senate, 2 p.m.	<i>Chamber Music Concert</i>
2	Th.	Last day for receipt of theses for examination in March	
3	F.		<i>Midday Recital</i>
4	S.		
5	S.		
6	M.		<i>Inaugural Lecture</i>
7	Tu.	Medical Library Sub-Committee, 5 p.m.	<i>Midday Recital</i> <i>Public Lecture</i>
8	W.	Finance Committee, 2.15 p.m.	<i>Choral Concert</i>
9	Th.	M.Sc. Committee, 4 p.m. Masterships Committee, 4.5 p.m.	
10	F.	Library Committee, 4 p.m.	
11	S.		
12	S.		
13	M.	Ph.D. Committee, 4.5 p.m.	<i>Public Lecture</i>
14	Tu.	Board of the Faculties of Arts, Economic and Social Studies and Law, 5 p.m.	<i>Montague Burton Lecture</i>
15	W.	Council, 2.15 p.m.	<i>Chamber Music Concert</i>
16	Th.	Board of the Faculties of Science and Technology, 5 p.m.	<i>Lecture-Recital</i>
17	F.		<i>Midday Recital</i>
18	S.		
19	S.		
20	M.		<i>Public Lecture</i>
21	Tu.	Board of the Faculty of Medicine, 5 p.m.	<i>Public Lecture</i>
22	W.	Senate Business Committee, 2 p.m.	
23	Th.		<i>Midday Recital</i>
24	F.		<i>Lecture-Recital</i>
25	S.		
26	S.		
27	M.		<i>Inaugural Lecture</i>
28	Tu.	Joint Committee of Council and Senate on Halls of Residence, 4 p.m.	

MARCH 1961

- | | | | |
|----|-----|---|------------------------------|
| 1 | W. | Senate, 2 p.m. | <i>Chamber Music Concert</i> |
| 2 | Th. | | |
| 3 | F. | | <i>University Lecture</i> |
| 4 | S. | | |
| 5 | S. | | <i>University Sermon</i> |
| 6 | M. | | <i>Public Lecture</i> |
| 7 | Tu. | Board of the Institute of Education, 2.30 p.m. | |
| 8 | W. | Finance Committee, 2.15 p.m. | <i>Music Society Concert</i> |
| 9 | Th. | Board of Extra-Mural Studies, 2.15 p.m.
M.Sc. Committee, 4 p.m.
Masterships Committee, 4.5 p.m. | |
| 10 | F. | | |
| 11 | S. | | |
| 12 | S. | | |
| 13 | M. | Ph.D. Committee, 4.15 p.m. | <i>Inaugural Lecture</i> |
| 14 | Tu. | Union Building Advisory Committee, 2.30 p.m.
Board of the Faculties of Arts, Economic and Social Studies and Law, 5 p.m. | |
| 15 | W. | Council, 2.15 p.m. | |
| 16 | Th. | Board of the Faculties of Science and Technology, 5 p.m. | |
| 17 | F. | SECOND TERM ENDS | |
| 18 | S. | | |
| 19 | S. | | |
| 20 | M. | | |
| 21 | Tu. | | |
| 22 | W. | | |
| 23 | Th. | | |
| 24 | F. | | |
| 25 | S. | | |
| 26 | S. | | |
| 27 | M. | | |
| 28 | Tu. | | |
| 29 | W. | | |
| 30 | Th. | University buildings closed at 12.30 p.m. (except the Brotherton Library, the main entrance to the Parkinson building and the University Road entrance) | |
| 31 | F. | Good Friday. University buildings closed. | |

ALMANAC

APRIL 1961

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.	THIRD TERM BEGINS Board of the Faculty of Medicine, 5 p.m.	
19	W.		
20	Th.		
21	F.		
22	S.		
23	S.		
24	M.		<i>Inaugural Lecture</i>
25	Tu.		
26	W.	Senate Business Committee, 2 p.m.	
27	Th.		
28	F.	Library Committee, 4 p.m.	
29	S.		
30	S.		

MAY 1961

- 1 M. Last day for receipt of theses for examination in June.
- 2 Tu.
- 3 W. Senate, 2 p.m.
- 4 Th. Masterships Committee, 4-5 p.m.
- 5 F. *University Lecture*
- 6 S.
- 7 S. *University Sermon*
- 8 M. Ph.D. Committee, 4.15 p.m.
- 9 Tu. Board of the Faculty of Arts, Economic and Social Studies and Law, 5 p.m.
- 10 W. Finance Committee, 2.15 p.m.
- 11 Th. M.Sc. Committee, 4 p.m.
- 12 F.
- 13 S.
- 14 S.
- 15 M. *Selig Brodetsky Memorial Lecture*
- 16 Tu. Board of the Faculty of Medicine, 2 p.m.
- 17 W. Council, 2.15 p.m.
Court, 3.30 p.m.
- 18 Th. Congregation, 3 p.m.
- 19 F.
- 20 S.
- 21 S.
- 22 M. University buildings closed
- 23 Tu. University buildings closed
- 24 W.
- 25 Th. Board of the Faculties of Science and Technology, 5 p.m.
- 26 F.
- 27 S.
- 28 S.
- 29 M.
- 30 Tu. Joint Committee of Council and Senate on Halls of Residence, 4 p.m.
- 31 W. Senate Business Committee, 2 p.m.

JUNE 1961

- 1 Th.
 2 F.
 3 S.
 4 S.
 5 M.
 6 Tu. Medical Library Sub-Committee, 5 p.m.
 7 W. Senate, 2 p.m.
 8 Th. M.Sc. Committee, 4 p.m.
 Masterships Committee, 4.5 p.m.
 9 F. Library Committee, 4 p.m.
 10 S.
 11 S.
 12 M. Ph.D. Committee, 4.15 p.m.
 13 Tu. Board of Extra-Mural Studies, 2.15 p.m.
 Board of the Faculties of Arts, Economic and Social Studies and
 Law, 5 p.m.
 14 W. Finance Committee, 2.15 p.m.
 15 Th. Board of the Faculties of Science and Technology, 5 p.m.
 16 F.
 17 S.
 18 S. *Going Down Service*
 19 M. Last day for return of books to the Brotherton, agricultural, law
 and textile libraries for annual inspection, 5 p.m.
 20 Tu. Board of the Faculty of Medicine, 5 p.m.
 21 W. Council, 2.15 p.m.
 22 Th. Board of the Institute of Education, 2.30 p.m.
 23 F.
 24 S.
 25 S.
 26 M.
 27 Tu. Union Building Advisory Committee, 2.30 p.m.
 28 W. Senate Business Committee, 2 p.m.
 29 Th.
 30 F. THIRD TERM ENDS

ALMANAC

JULY 1961

1	S.	<i>Convocation Lecture</i>
2	S.	
3	M.	
4	Tu.	
5	W.	Senate, 2 p.m.
6	Th.	
7	F.	
8	S.	
9	S.	
10	M.	
11	Tu.	
12	W.	Finance Committee, 2.15 p.m.
13	Th.	Board of the Institute of Education
14	F.	
15	S.	
16	S.	
17	M.	
18	Tu.	
19	W.	Council, 2.15 p.m.
20	Th.	
21	F.	
22	S.	
23	S.	
24	M.	
25	Tu.	
26	W.	
27	Th.	
28	F.	
29	S.	
30	S.	
31	M.	

AUGUST 1961

1	Tu.	Last day for receipt of theses for examination in September
2	W.	
3	Th.	
4	F.	
5	S.	University buildings closed (except the Brotherton Library)
6	S.	
7	M.	University buildings closed
8	Tu.	University buildings closed
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.	
27	S.	
28	M.	
29	Tu.	
30	W.	
31	Th.	
18		

ALMANAC

SEPTEMBER 1961

- 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.
- 23 S.
- 24 S.
- 25 M.
- 26 Tu.
- 27 W.
- 28 Th.
- 29 F.
- 30 S.

Senate Business Committee, 2 p.m.

OCTOBER 1961

- 1 S.
2 M. Admission of students
3 Tu. FIRST TERM BEGINS
Admission of students
4 W. Senate, 2 p.m.
5 Th. Masterships Committee, 4.5 p.m.
6 F.
7 S.
8 S.
9 M. Ph.D. Committee, 4.15 p.m.
10 Tu. Board of the Faculties of Arts, Economic and Social Studies and
Law, 5 p.m.
11 W. Finance Committee, 2.15 p.m.
12 Th. M.Sc. Committee, 4 p.m.
13 F. Library Committee, 4 p.m.
14 S.
15 S.
16 M.
17 Tu. Board of the Faculty of Medicine, 5 p.m.
18 W. Council, 2.15 p.m.
19 Th. Board of the Faculties of Science and Technology, 5 p.m.
20 F.
21 S.
22 S.
23 M.
24 Tu.
25 W. Senate Business Committee, 2 p.m.
26 Th.
27 F.
28 S.
29 S.
30 M.
31 Tu.
20

NOVEMBER 1961

- 1 W. Last day for submission of theses for examination in December Senate, 2.0 p.m.
- 2 Th.
- 3 F.
- 4 S.
- 5 S.
- 6 M.
- 7 Tu. Medical Library Sub-Committee, 5.0 p.m.
- 8 W.
- 9 Th. Masterships Committee, 4.5 p.m.
M.Sc. Committee, 4 p.m.
- 10 F.
- 11 S.
- 12 S.
- 13 M. Ph.D. Committee, 4.15 p.m.
- 14 Tu. Board of the Faculties of Arts, Economic and Social Studies and Law, 5 p.m.
- 15 W. Council, 2.15 p.m.
Court, 3.30 p.m.
- 16 Th. Board of the Faculties of Science and Technology, 5 p.m.
- 17 F. Library Committee, 4 p.m.
- 18 S.
- 19 S.
- 20 M.
- 21 Tu. Board of the Faculty of Medicine, 5 p.m.
- 22 W.
- 23 Th.
- 24 F.
- 25 S.
- 26 S.
- 27 M.
- 28 Tu. Joint Committee of Council and Senate on Halls of Residence, 4 p.m.
- 29 W. Senate Business Committee, 2 p.m.
- 30 Th.

ALMANAC

DECEMBER 1961

1	F.	
2	S.	
3	S.	
4	M.	
5	Tu.	
6	W.	Senate, 2 p.m.
7	Th.	Masterships Committee, 4.5 p.m. M.Sc. Committee, 4.0 p.m.
8	F.	
9	S.	
10	S.	
11	M.	Ph.D. Committee, 4.15 p.m.
12	Tu.	Union Building Advisory Committee, 2.30 p.m. Board of the Faculties of Arts, Economic and Social Studies and Law, 5 p.m.
13	W.	
14	Th.	Board of the Faculties of Science and Technology, 5 p.m.
15	F.	FIRST TERM ENDS
16	S.	
17	S.	
18	M.	
19	Tu.	
20	W.	Council, 2.15 p.m.
21	Th.	
22	F.	
23	S.	
24	S.	
25	M.	Christmas Day
26	Tu.	University buildings closed
27	W.	University buildings closed
28	Th.	University buildings closed
29	F.	
30	S.	
31	S.	
22		

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.

CHARTER

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.

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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 periods 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.

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'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:

Ten 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 training 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 re-appointment 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 the 1st May, 1920, the number of members to be elected by the Court shall be increased from twelve to sixteen. 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 the 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 re-appointment 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 re-investment 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 and the librarian, 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 Boards 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 or 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.

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.

The Vice-Chancellor shall be a member of each of the several Faculties and Boards of Faculties.

STATUTES

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.

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.

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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 graduation shall not be less than three years, all of which shall be subsequent to the date at which the student passes the examination for matriculation.

This clause shall come into operation not later than October 1st, 1906.

In the case of the Yorkshire College, and in the event of any other college or institution, or any branch or department thereof, becoming affiliated to the University within six months from the date of the Charter, the University may accept attendance which commenced on or subsequent to the 1st October, 1903, at courses of study in the Yorkshire College or in such other college or institution in place of attendance at courses of study in the University for the same period.

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 Ourselves at Westminster the twenty-fifth of April in the Fourth Year of Our Reign.

By Warrant under the King’s Sign Manual.

MUIR MACKENZIE.



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 as exempting from such courses of study in the University as the Council may approve, provided that in no case shall the University confer a degree upon any person who has not attended in the University during one year at least the courses of study which have been recognised for such degree, and that in every case the period of attendance in the University of a candidate for an Honours degree shall be not less than two years.

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 foregoing Ordinance shall

- (a) 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;
- (b) 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.

5. The University shall inspect from time to time the buildings and equipment for teaching provided in any such college or institution, and shall satisfy itself as to the qualifications of any teacher therein appointed to conduct the courses offered in place of University courses.

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.

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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.

The Technical College, Huddersfield [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 degrees of Bachelor of Arts, Bachelor of Science (including engineering) and Bachelor of Medicine and Bachelor of Surgery.

Rawdon College, Rawdon [affiliated 17th May, 1916]. By resolution of the Council [1st October, 1915], attendance upon certain courses of study in this college is recognised as exempting from attendance upon courses in the University in the first of the three years of study required for the degree of Bachelor of Arts.

Diocesan Training College, York [affiliated 15th June, 1921]. Attendance upon certain courses of study of 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.

Leeds Technical College (printing department) [affiliated 20th December, 1922]. Affiliation granted with a view to the recognition of classes at the printing department as part of the course for the degree of Bachelor of Commerce.

II. DEGREES IN ARTS

III. DEGREES IN COMMERCE

IV. DEGREES IN LAW

V. DEGREES IN SCIENCE

VI. DEGREES IN MEDICINE AND SURGERY

VII. DEGREES IN DENTAL SURGERY

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

VIII. 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.

IX. 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 examination 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.

X. CONFERMENT OF DEGREES UPON FORMER STUDENTS OF THE YORKSHIRE COLLEGE

1. As to 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.
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.

XI. 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.

XII. 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.

XIII. 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 thereon 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.

XIV. 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.

XV. 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.

XVI. 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.

XVII. 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.

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XVIII. REGULATIONS FOR EXAMINATIONS

Subject to the provisions of the Charter, Statutes, and Ordinances of the University, the Council 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.

XIX. 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.

XX. 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.

XXI. 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.

XXII. 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.

XXIII. TENURE OF OFFICE OF DEANS OF FACULTIES

Deans of Faculties shall be elected for periods not exceeding two years at a time.

XXIV. TENURE OF OFFICE OF ADDITIONAL MEMBERS OF THE 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.

XXV. 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.

XXVI. 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.

XXVII. 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 shall 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.

XXVIII. ORDINANCE CONSTITUTING THE UNIVERSITY OF LEEDS INSTITUTE OF EDUCATION

[Adopted by the Court at a meeting held on the 19th May, 1948, and subsequently revised at a meeting held on 18th July, 1951.]

1. Definitions:

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

'The Area' means the area in which the University, through the Institute will engage in activities relating to the training of teachers.

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'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 Training College' means a training college which is a constituent member institution under Article 3(a) hereof.

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 be

(i) Constituent member institutions including:

The department of education in the University of Leeds

The City of Leeds Training College

The Yorkshire Training College of Housecraft

Bingley Training College

St. John's College, York

Ripon Training College

Bretton Hall

The North Riding Training College

Huddersfield Training College

(ii) Associated member institutions including:

The City of Leeds College of Art

The department of pædiatrics and child health, University of Leeds

The department of physical education, University of Leeds

The department of psychology, University of Leeds

The department of psychiatry, University of Leeds

The Carnegie College of Physical Education

and such other institutions as may be admitted by the Council on the recommendation of the Board, either as constituent members or as associated members.*

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.

*[The changes which have taken place in the list of member institutions since 18th July, 1951, are set out in the current *Handbook* of the Institute.]

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- (b) The individual members shall be:
- (i) The Director, the deputy Director, the Secretary and members of the academic staff of the Institute.
 - (ii) The principals and members of the teaching staffs of the member institutions.
 - (iii) The members of the Board and of the Professional Committee, together with
 - (iv) 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 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.

Any individual member of the Institute may resign such membership at any time by letter addressed to the clerk to 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 a Certificate in Education of the Institute or a Graduate Certificate in Education of the Institute to mark the successful completion of a period of initial training in a Member Training College; and to recommend to the Ministry for the award of qualified teacher status:
 - (i) students from a member institution to whom a Certificate in Education has been awarded.
 - (ii) students from a member institution to whom a Graduate Certificate in Education has been awarded.
 - (iii) students of the University department of education who have not qualified for the award of a Graduate Certificate, but who have satisfied the Board [as advised by the Professional Committee] that they are fitted to be allowed to teach.
- (d) To administer schemes drawn up under Regulations to be made by the Council for the award of a Diploma of the Institute to mark the successful conclusion of a further period of professional training under the direction of the Institute.
- (e) 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.
- (f) To submit to the Council proposals for a building to be equipped with libraries, conference rooms and other amenities suitable to enable such

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a building to be a centre of professional interest for persons engaged in educational work within the Area.

- (g) To promote consultation in the making of appointments to the staffs of all member institutions.
 - (h) To promote arrangements for lectures either from among the staffs of the member institutions or otherwise to give lectures, demonstrations, etc., in each or any of the member institutions 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 to 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.

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- (iii) The chairman of the finance committee of the Council *ex officio*.
- (iv) The Director and the deputy Director of the Institute *ex officio*.
- (v) The principals of the member training colleges, the vice-principals of mixed member training colleges, the principals of associated member institutions 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 following local education authorities:

Bradford	Wakefield
Dewsbury	York
Halifax	Yorkshire (West Riding)
Huddersfield	Yorkshire (North Riding).
Leeds	
- (vii) One representative of each member training college, to be nominated by the governing body of the training college.
- (viii) Ten members of the academic staff of the University appointed by the Senate.
- (ix) Such other persons, not exceeding twelve in number, as the Council may from time to time appoint after report from the Board; of these not more than eight shall be teachers in schools.
- (b) Members, other than *ex officio* members, shall hold office for three years and shall be eligible for re-appointment.
- (c) Two assessors appointed by the Minister of Education shall be invited to attend each meeting of the Board.
- (d) The Board shall meet at least twice a year.
- (e) 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.

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- (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.
 - (f) 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 principals of the member training colleges, the vice-principals of mixed member training colleges, the warden of the Carnegie College of Physical Education 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.
 - (v) Four members of the academic staff of the University appointed by the Senate.
 - (vi) One member of the staff [not the principal or head] of each constituent member institution, to be appointed by the Board on the recommendation of the staff of that Institution.
 - (vii) One member of the staff of the Institute [not the Director or the deputy Director] to be appointed by the Board on the recommendation of the staff of the Institute.
 - (viii) Two members nominated by the Yorkshire Association of Education Officers.
 - (ix) Such other persons, not exceeding six in number as may be appointed by the Board from time to time; of these not more than four may be teachers in schools.
 - (b) Members other than *ex officio* members will hold office for three years and will be eligible for reappointment.
 - (c) Two assessors appointed by the Minister of Education shall be invited to attend each meeting of the committee.
 - (d) 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 Ministry of Education 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(d) above.
 - (iv) To recommend persons for appointment as internal examiners.
 - (v) To recommend persons for appointment as external examiners.

ORDINANCES

- (vi) To report on any matter referred or delegated to it by the Board.
- (vii) 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 actions 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 Institute shall be the property of the University who shall discharge the liabilities in connection therewith and the premises, equipment and all assets of the member training colleges shall be the property of the respective training colleges, who shall respectively discharge the liabilities in connection therewith.

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RETIRED MEMBERS

AGUSTIN DE IRIZAR	1958
JOHN JAMES ILETT	1949
ANNIE REDMAN KING	1948
JAMES EDWARD LAYBOURN	1951
LLEWELLYN LLOYD	1952
PEDRO PENZOL	1945
FOSTER PICKLES	1947
GEORGE PRIESTLEY	1948
HENRY WHITAKER	1957

RETIRED MEMBERS OF STAFF

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

	<i>Date of Retirement</i>
JOHN WILLIAM BAKER	1959
EDWIN JOSEPH BROWN	1956
ANN FORREST BROWNLIE	1957
GUY PATTERSON CHAPMAN	1953
CECIL HENRY DOUGLAS CLARK	1955
EDWIN JOHN CROSS	1958
STANLEY JAMES CURTIS	1958
ARTHUR HAROLD DANTON	1952
CLARENCE GEORGE DURDEY	1959
JACK EWLES	1959
CECIL WALTER GILHAM	1956
WILLIAM ROBINSON GRIST	1946
ARNOLD HAUSER	1957
DORA MARGARET HIBGAME	1948
THOMAS HOLLIS	1940
JOHN HUME	1955
JOHN PHILLIPS INEBNIT	1955
LEONARD GEORGE JOHNSON	1959
RAYMOND LESLIE LANGLEY	1957
DOROTHY AMELIA LILEY	1959
FRANK ARTHUR LONG	1959
HERBERT WILLIAM MERRELL	1947
WILFRED ARTHUR MILLARD	1946
RICHARD OFFOR	1947
ALBERT EDWARD PYBUS	1959
WINIFRED FORSTER ROBSON	1955
LORNA IRIS SCOTT	1958
GRACE VALERIE MARY SELBY	1958
LILIAN ALICE SILCOX	1931
WALTER STANLEY STUART	1959
HENRY EDWARD SYMONDS	1945
FRANCIS LAWRY USHER	1950

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

	<i>Date of Retirement</i>
EDWARD ERNEST BIBBY	1951
ELIZABETH MARIA BLACKBURN	1946
SYDNEY BURR	1950
MARY CONSTANCE CALDWELL	1956
ERNEST EDWARD CATON	1953

FORMER PROFESSORS

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

Clinical Dental Surgery

THOMAS TALMAGE READ	1931-59
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Institute of Education

WILLIAM ROY NIBLETT	1947-59
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Librarian

MISS FANNY JULIET PASSAVANT	1904-19
RICHARD OFFOR	1919-47

FORMER PROFESSORS

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

Obstetrics and Gynaecology

CHARLES JAMES WRIGHT	1904-08
JOHN BENJAMIN HELLIER	1908-18
EDWARD OCTAVIUS CROFT	1918-23
CARLTON OLDFIELD	1929-30
WILLIAM GOUGH	1931-36

Pharmacology

WILLIAM ALEXANDER BAIN	1946-59
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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

FORMER PROFESSORS

Textile Industries

ROBERTS BEAUMONT	1904-14
ALDRED FARRER BARKER	1914-33
ALBERT THEODORE KING	1933-39
ALFRED HESKEL NISSAN (wool textile engineering)	1953-57

Agriculture

ROBERT SUTHERLAND SETON	1904-32
CHARLES CROWTHER (agricultural chemistry)	1913-19
NORMAN MEDERSON COMBER (agricultural chemistry)	1932-53

Anatomy

THOMAS WARDROP GRIFFITH	1904-10
JOHN KAY JAMIESON	1910-36

Physiology

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

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
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Experimental Pathology and Cancer Research

RICHARD DOUGLAS PASSEY	1926-53
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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

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

Diseases of Children

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

Botany

VERNON HERBERT BLACKMAN	1907-11
JOSEPH HUBERT PRIESTLEY	1911-45

Geology

PERCY FRY KENDALL	1904-22
ALBERT GILLIGAN	1922-39
ROBERT GEORGE SPENCER HUDSON	1939-40
HENRY CHERRY VERSEY	1956-59

Civil and Mechanical Engineering

JOHN GOODMAN	1904-22
WILLIAM THOMAS DAVID	1922-46

Mechanical Engineering

WILLIAM THOMAS DAVID	1946-48
DERMAN GUY CHRISTOPHERSON	1949-55

Electrical Engineering

GEORGE DUDLEY ASPINALL PARR [non-professorial appointment]	1904-14
WALTER WILLIAM EDWARD FRENCH [non-professorial appointment]	1919-26
EDWARD LEWIS ELAM WHEATCROFT	1926-40

Colour Chemistry and Dyeing

ARTHUR GEORGE GREEN	1904-16
ARTHUR GEORGE PERKIN	1916-26
FREDERICK MAURICE ROWE	1926-46

Leather Industries

HENRY RICHARDSON PROCTER	1904-13 and 1914-19
EDMUND STIASNY	1913-14
DOUGLAS McCANDLISH	1919-49
WILLIAM REARDEN ATKIN	1949-50
DONALD BURTON	1951-59

Coal Gas and Fuel Industries

WILLIAM ARTHUR BONE	1906-12
JOHN WILLIAM COBB	1912-38
DONALD THOMAS ALFRED TOWNEND	1938-46

Metallurgy

NORMAN JAMES PETCH	1956-59
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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

FORMER PROFESSORS

Fine Art

MAURICE DE SAUSMAREZ [non-professorial appointment] 1951-59

Architecture

BASIL SPENCE 1955-57

JAMES MAUDE RICHARDS 1957-59

WILLIAM ADAM SINGLETON 1959-60

Economic and Political Science

JOHN HAROLD CLAPHAM 1904-08

DAVID HUTCHISON MACGREGOR 1908-19

JOHN HARRY JONES 1919-46

Industrial Relations

JOHN HENRY RICHARDSON 1930-55

Social Studies

ARNOLD NIXON SHIMMIN 1945-54

Law

WALTER ROSS PHILLIPS 1904-19

JOHN DAVID IVOR HUGHES 1919-51

Mathematics

LEONARD JAMES ROGERS 1904-19

WILLIAM PROCTOR MILNE 1919-46

SELIG BRODETSKY (applied mathematics) 1924-48

Physics

WILLIAM STROUD 1904-09

WILLIAM HENRY BRAGG 1909-14

RICHARD WHIDDINGTON 1919-51

Chemistry

ARTHUR SMITHELLS 1904-23

ROBERT WHYTLAW WHYTLAW-GRAY 1932-45

Inorganic and Structural Chemistry

ERNEST GORDON COX 1945-60

Physical Chemistry

HARRY MEDFORTH DAWSON 1920-39

MEREDITH GWYNNE EVANS 1939-49

Organic Chemistry

JULIUS BEREND COHEN 1904-24

CHRISTOPHER KELK INGOLD 1924-30

FREDERICK CHALLENGER 1930-53

Biology

LOUIS COMPTON MIALl 1904-07

Zoology

WALTER GARSTANG 1907-33

ERIC ARTHUR SPAUL 1933-60

FORMER PROFESSORS

German Language and Literature

ALBERT WILLIAM SCHÜDDEKOPF	1904-16
CHARLES EDWARD GOUGH	1924-39
RONALD PEACOCK	1939-45

Russian Language and Literature

JOSHUA KOLNI-BALOCKY [non-professorial appointment]	1918-39
ROLF SHAFTLIN [non-professorial appointment]	1947-51
HARRY MAXWELL HAYWARD [non-professorial appointment]	1952-56

Spanish Language and Literature

PEDRO PENZOL [non-professorial appointment]	1918-45
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History

ARTHUR JAMES GRANT	1904-27
ALEXANDER HAMILTON THOMPSON	1924-39
ARTHUR STANLEY TURBERVILLE	1929-45
DAVID CHARLES DOUGLAS	1939-45
GUY PATTERSON CHAPMAN	1945-53
NORMAN GASH	1953-55

Philosophy

CHARLES MELVILLE GILLESPIE [non-professorial appointment until 1912]	1904-32
JOHN WILFRED HARVEY	1932-54
STEPHEN EDELSTON TOULMIN	1955-59

Geography

CHARLES BUNGAY FAWCETT [non-professorial appointment]	1919-28
ALBERT VICTOR WILLIAMSON [non-professorial appointment until 1944]	1928-53
RONALD FRANCIS EDWARD WAITE PEEL	1951-57

Philosophy and History of Religion

EDWIN OLIVER JAMES	1933-45
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Theology

LAURENCE EDWARD BROWNE	1946-52
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Education

JAMES WELTON	1904-16
JOHN STRONG	1919-33
FRANK SMITH	1933-47
ROGER NOEL ARMFELT	1949-55

FORMER PROFESSORS AND HEADS OF DEPARTMENTS

Greek

WILLIAM RHYS ROBERTS	1904-23
HENRY ARDERNE ORMEROD	1923-28
WALTER MANOEL EDWARDS	1928-50

Latin

BENJAMIN MICHAEL CONNAL	1904-26
HUGH STEWART	1926-29
PETER SCOTT NOBLE	1930-38

Semitic Languages and Literatures

JOHN NOEL SCHOFIELD [non-professorial appointment]	1941-46
SIMON RAWIDOWICZ [non-professorial appointment]	1946-48
JOHN BOWMAN [non-professorial appointment]	1948-59

English Literature

CHARLES EDWYN VAUGHAN	1904-13
GEORGE STEWART GORDON	1913-22
LASCELLES ABERCROMBIE	1922-29
FRANK PERCY WILSON	1929-36
BONAMY DOBRÉE	1936-55

English Language

FREDERIC WILLIAM MOORMAN	1912-18
JOHN RONALD REUEL TOLKIEN	1924-25
ERIC VALENTINE GORDON	1926-31
BRUCE DICKINS	1931-46

French Literature

PIERRE HENRI MARTIN DU GILLON	1904-13
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French Language and Literature

PAUL BARBIER	1903-38
IVOR DEINIOL OSBORN ARNOLD	1938-49

Medieval French Language and Literature

IVOR DEINIOL OSBORN ARNOLD	1949-52
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Italian Language and Literature

MATTHEW FONTAINE MAURY MEIKLEJOHN [non-professorial appointment]	1946-49
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<i>Lecturer in Church History and Doctrine</i>	The Rev. G. S. M. WALKER, M.A., <i>Oxford</i> , B.D., Ph.D., <i>St. Andrews</i>
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College, Headingley (*Church History*)

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<i>Hoffman Wood Professor</i>	R. FURNEAUX JORDON, A.R.I.B.A., A.A.Dipl.
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ADULT EDUCATION AND EXTRA-MURAL STUDIES

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ECONOMICS

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ARTS

LAW

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SOCIAL STUDIES

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Brotherton Research Fellow

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F.R.I.C.

Deputy Superintendent

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Assistant Analyst

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Glassblower	H. S. BUTLER

ZOOLOGY

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Reader	T. KERR, M.A., D.Sc., <i>Glasgow</i>
Senior Lecturers	H. HENSON, Ph.D., D.Sc., <i>Birmingham</i> E. BROADHEAD, M.A., B.Sc., D.Phil., <i>Oxford</i> , F.R.E.S.
Lecturers	Miss JEAN BRUST, B.Sc., <i>Reading</i> , Ph.D., <i>Leeds</i> Miss IRENE WERTH, M.A., <i>Oxford</i> R. W. OWEN, M.Sc., Ph.D., <i>Wales</i> J. R. LEWIS, B.Sc., Ph.D., <i>Wales</i> J. B. JENNINGS, B.Sc., Ph.D., <i>Leeds</i> A. J. WAPSHERE, B.Sc., <i>Exeter</i>
Research Assistant in Insect Ecology	
Demonstrator (part-time)	Mrs. ELCY C. BROADHEAD, B.Sc., <i>Aberdeen</i>
Research Assistant	Vacant
Secretary	Miss D. NORA MASON
Senior Technician	H. NEWBY

BOTANY

Professor	Miss IRENE MANTON, B.A., Ph.D., Sc.D., <i>Cambridge</i> , Hon. D.Sc., <i>McGill</i>
Professor of Plant Biophysics	R. D. PRESTON, Ph.D., D.Sc., <i>Leeds</i> , F.Inst.P., F.L.S., F.R.S.
Senior Lecturer	W. A. SLEDGE, B.Sc., Ph.D., <i>Leeds</i>
Lecturers	Mrs. EDITH ROBINSON, B.Sc., <i>Durham</i> , Ph.D., <i>Leeds</i>

THE STAFF

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	Miss EVA FREI, Dr. Sc. Nat., <i>Zürich</i>
	J. D. LOVIS, B.Sc., <i>London</i> , Ph.D., <i>Leeds</i>
	D. D. BARTLEY, B.Sc., Ph.D., <i>Wales</i>
	D. H. JENNINGS, B.A., <i>Cambridge</i> , M.A., D.Phil., <i>Oxford</i>
	G. F. LEEDALE, B.Sc., Ph.D., <i>London</i>
Demonstrators	Mrs. BRENDA J. NELMES, B.Sc., <i>London</i>
	One vacancy
Research Assistant	T. S. CROSBY, B.Sc.(Hort.), <i>London</i>
Secretary	Miss J. M. DENISON
Secretary (Plant Biophysics)	Miss E. D. LISTER, B.Sc., <i>Leeds</i>
Senior Technicians	J. R. SCOTT G. A. SHAW K. OATES

GEOLOGY

5 Hillary Place, Leeds 2

Professor and Head of the Department	W. Q. KENNEDY, D.Sc., <i>Glasgow</i> , F.R.S.
Senior Lecturer	J. E. HEMINGWAY, B.Sc., Ph.D., <i>Leeds</i>
Lecturers	Miss DOROTHY H. RAYNER, M.A., Ph.D., <i>Cambridge</i> J. HARTLEY, B.Sc., <i>Leeds</i> W. C. GREGORY, B.Sc., <i>London</i> , A.R.S.M., A.M.I.M.M. A. R. J. GASKIN, M.A., B.Sc., <i>Oxford</i> , A.M.I.M.M., F.G.S.
Lecturer in Palæontology	J. SELWYN TURNER, M.Sc., <i>London</i> , M.R.I.A., F.G.S.
Lecturer in Geology and Geochemistry	P. G. HARRIS, M.Sc., <i>New Zealand</i> , Ph.D., <i>Leeds</i>
Lecturer in Experimental Petrology	P. J. WYLLIE, <i>Polar Medal</i> , B.Sc., Ph.D., <i>St. Andrews</i>
Oppenheimer Geological Fellows	O. VON KNORRING, M.Sc., <i>Helsinki</i> , Ph.D., <i>Leeds</i> T. N. CLIFFORD, B.Sc., Ph.D., <i>Leeds</i> R. L. JOHNSON, B.Sc., Ph.D., <i>Leeds</i>
Spectrographer	Miss JOAN M. ROOKE, B.Sc., <i>Leeds</i> , A.Inst.P.

<i>Assistant Spectrographer</i>	Mrs. ADRIENNE M. FISHER
<i>Research Assistant and Demonstrator (part-time)</i>	Mrs. MARGARET H. KERR, B.Sc., <i>Glasgow</i>
<i>Honorary Research Assistant (part-time)</i>	J. A. ROWELL, B.Sc., <i>Leeds</i>
<i>Secretary</i>	Mrs. MARY MARSHALL
<i>Clerk</i>	Miss BERYL C. SPILLINGS
<i>Chief Technician</i>	W. L. WILSON

BIOMOLECULAR STRUCTURE

9 University Road, Leeds 2

Professor

W. T. ASTBURY, M.A., Sc.D., *Cambridge*, Hon.D.Sc., *Strasbourg*, F.Inst.P., F.R.S., Member of the Royal Society of Sciences of Uppsala, Foreign Member of the Swedish Royal Academy of Sciences

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Glasgow

K. M. RUDALL, M.Sc., *New Zealand*,
Ph.D., D.Sc., *Leeds*

Lecturer

F. G. E. PAUTARD, M.Sc., *Birmingham*,
Ph.D., *Leeds*, A.R.I.C.

Research Fellow

W. E. SEEDS, B.A., M.Sc., *Trinity College, Dublin*, Ph.D., *London*

Research Assistants

E. BEIGHTON, B.Sc., Ph.D., *Leeds*
K. D. PARKER, B.A., *Cambridge*, Ph.D.,
Leeds

G. N. GRAHAM, B.Sc., Ph.D., *Leeds*
One vacancy

A. MILLARD

*Research Assistant for
Electron Microscope*

Clerk

Mrs. DORIS E. BEIGHTON

Technician

K. TOPHAM

PSYCHOLOGY

15-17 Lifton Place, Leeds 2

Professor

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Ph.D., *London*, F.B.Ps.S.

Lecturers

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R. HARPER, M.Sc., *Manchester*, Ph.D.,
Reading, F.B.Ps.S.

P. P. DAWS, B.A., Ph.D., *Nottingham*

D. H. HOLDING, M.A., *Edinburgh*

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Clerk

Miss ROSEMARY M. BRISTOL

Senior Technician

E. SOLLITT

PHILOSOPHY

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GEOGRAPHY

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PHYSIOLOGY

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ANATOMY

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BACTERIOLOGY

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BIOCHEMISTRY

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PHARMACOLOGY

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TECHNOLOGY

Dean of the Faculty

Dr. LEAH

*Sub-Dean of the Faculties
of Science and Technology*

Emeritus Professor VERSEY

CIVIL ENGINEERING

*Professor of Civil Engineering
and Administrative Head of
the Departments of Engineering*

R. H. EVANS, C.B.E., D.Sc., *Manchester*, D.ès Sc., *Ghent*, Ph.D., *Leeds*,
M.I.C.E., M.Am.Soc.C.E.,
M.I.Mech.E., M.I.Struct.E.

Reader

E. LIGHTFOOT, M.Sc.(Eng.), *London*,
Ph.D., *Leeds*, A.M.I.C.E.,
M.I.Struct.E.

Honorary Lecturer

W. HUNTER ROSE, M.Sc., *Leeds*,
M.I.C.E.I., M.I.Struct.E., F.G.S.

*Honorary Lecturers in Architectural
Engineering*

G. WILSON, M.Sc., *Leeds*, A.R.I.B.A.,
A.M.I.Struct.E.

R. PEMBERTON, D.S.C., A.R.I.B.A.

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A.M.I.C.E.

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A.M.I.C.E.

P. SUTCLIFFE, B.Sc.(Tech.), *Manchester*,
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Lvov and Polish Technical University,
London

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H. J. WOOTTON, B.Sc.(Eng.), *London*

Assistant Lecturer

Miss PATRICIA A. HILES

Clerks

Miss DOROTHY KITSON, B.A., *Leeds*

Chief Technician

S. RIDER

Senior Technician

H. ROBINSON

MECHANICAL ENGINEERING

Professor

D. C. JOHNSON, M.A., *Cambridge*,
M.I.Mech.E., sometime Fellow of
Trinity Hall, Cambridge

THE STAFF

Professor of Engineering Fluid Mechanics

Vacant

Reader in Applied Thermodynamics

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A.M.I.C.E., M.I.Mech.E.

Senior Lecturer

R. SHILTON, B.Sc. (Eng.), *London*,
A.M.I.Mech.E., M.I.Prod.E.

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Ph.D., *Leeds*, A.M.I.Mech.E.

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A.M.I.Mech.E.

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A.M.I.Mech.E.

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Leeds, A.M.I.Mech.E.

L. H. TANNER, B.A., *Cambridge*

M. D. LONGFIELD, B.Sc., *Leeds*,
A.M.I.Mech.E.

Draughtsmen Demonstrators

B. HUNTER, G.I.Mech.E.

R. T. HARDING, G.I.Mech.E.

*Superintendent of Technical Staff
Clerks*

Vacant

Miss JOSEPHINE E. SHAW

Miss PATRICIA CANNEVA

Senior Technicians

W. DAVIS

W. H. BICKERTON, M.I.E.(Prac.)

R. STEVENS

W. G. RADFORD

H. CASEY, A.I.S.T.

A. T. LAWSON

ELECTRICAL ENGINEERING

Professor

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M.I.E.E., Mem.A.I.E.E.

Senior Lecturer

A. RICHARDSON, B.Sc., *Durham*,
A.M.I.E.E., A.M.Brit.I.R.E.

Lecturers

G. S. BRAYSHAW, B.Sc., Ph.D.,
London, A.M.I.E.E., Sen.M.I.R.E.

T. WILSON, B.Sc.(Eng.), *London*,
A.M.I.E.E.

P. H. WALKER, B.Sc.(Eng.), *London*,
Ph.D., *Manchester*, A.M.I.E.E.

TECHNOLOGY

	L. M. STEPHENSON, B.Sc.(Eng.), Ph.D., <i>London</i> , A.C.G.I.
	B. F. SALVAGE, B.Sc.(Eng.), Ph.D., <i>London</i> , M.I.E.E.
	R. S. MAMAK, B.Sc., <i>Manchester</i>
	J. H. ANDERSON, B.Sc., <i>Leeds</i>
	One vacancy
Clerk	Miss JANET R. CLARK
Chief Technicians	W. E. EARNSHAW C. S. PETCH
Senior Technicians	L. WILLIAMS L. WILSON

MINING

[Formerly assisted by the Drapers' Company of the City of London and the West Yorkshire Coal Owners' Association; and now by The National Coal Board and Richard Sutcliffe Ltd.]

Professor	Vacant
Reader	H. J. KING, B.Sc. (Eng.), Ph.D., <i>London</i> , A.M.I.Min.E.
Lecturer in Mining	W. L. J. POTTS, B.Sc., <i>Durham</i> , A.R.I.C.S., A.M.I.Min.E.
Lecturer in Mining and Mine Surveying	J. McFARLANE, B.Sc., <i>Manchester</i> , B.Eng., <i>Sheffield</i> , F.G.S.
Lecturer in Metal Mining and Mine Surveying	A. PECK, B.Sc., <i>Leeds</i> , A.M.I.M.M.
Lecturer in Mine Surveying and Applied Geophysics	J. O. MYERS, B.Sc., Ph.D., <i>Leeds</i> , A.M.I.Min.E.
Lecturer in Colliery Engineering	N. BROOK, B.Sc.(Eng.), <i>London</i> , Ph.D., <i>Leeds</i> , G.I.Mech.E., A.I.Min.E.
Lecturers in Dressing of Minerals and Coal Preparation	A. JOWETT, B.Sc., Ph.D., <i>Leeds</i> C. C. DELL, B.Sc.(Eng.), <i>London</i> , A.R.S.M., A.M.I.M.M. C. C. HARRIS, B.Sc., <i>London</i> , Ph.D., <i>Leeds</i>
Honorary Lecturers in Mineral Dressing and Coal Preparation	A. GROUNDS, B.Sc.(Tech.), <i>Man-</i> <i>chester</i> , A.M.C.T., M.I.Min.E., F.Inst.F. L. W. NEEDHAM, M.Sc., <i>Birmingham</i> , A.R.I.C., F.Inst.F.
Hugh Wood Memorial Research Fellow in Mining	Vacant

THE STAFF

<i>Research Assistants</i>	K. G. STAGG, B.Sc., <i>Leeds</i> Five vacancies
<i>Demonstrator/Draughtsman</i>	P. M. DAVEY
<i>Clerks</i>	Miss ANNE N. HOWIESON Miss CYNTHIA NORTH
<i>Senior Technician</i>	F. HORSFALL, A.I.S.T.

THE HOULDSWORTH SCHOOL OF APPLIED SCIENCE

[The school comprises three related departments of gas engineering and general fuel science with ceramics, chemical engineering, and metallurgy. 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. 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.

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 guided by a joint committee of the Council and the University.]

<i>Livesey Professor of Coal Gas and Fuel Industries and Chairman of the School, 1956-61</i>	A. L. ROBERTS, B.Sc., Ph.D., <i>Leeds</i> , F.Inst.F., F.R.I.C., F.I.Ceram., Hon.M.Inst.Gas E.
--	--

GAS ENGINEERING AND GENERAL FUEL SCIENCE WITH CERAMICS

<i>Senior Lecturer in Fuel Technology</i>	J. E. GARSIDE, B.Sc., Ph.D., <i>Leeds</i> , M.Inst.F.
<i>Senior Lecturer in Gas Chemistry</i>	J. C. MACRAE, B.Sc., <i>Glasgow</i> , F.R.I.C., M.Inst.F.
<i>Lecturer in Fuel Technology</i>	S. C. MITCHELL, B.Sc., <i>London</i> , A.R.I.C., A.M.Inst.F.

TECHNOLOGY

Honorary Lecturers

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M.Inst.Gas E.

Emeritus Professor R. J. SARJANT,
O.B.E., D.Sc., *London*, F.Inst.F.

Lecturer in Gas Engineering

Vacant

CERAMICS

Lecturers in Ceramics and Refractory Materials

T. G. CARRUTHERS, B.Sc., *Leeds*,
A.R.I.C., F.I.Ceram.

W. E. WORRALL, M.Sc., *London*,
Ph.D., *Leeds*, A.R.I.C.

Lecturer in Ceramics

J. P. ROBERTS, M.A., *Cambridge*,
B.Sc., Ph.D., *London*, A.Inst.P.,
F.I.Ceram.

Honorary Lecturer

A. T. GREEN, C.B.E., D.Sc., *Leeds*

Arthur Duckham Research Fellow,

J. H. ELLIOTT, M.Sc., *Leeds*

Institute of Gas Engineers

Research Assistants

D. W. BUDWORTH, B.Sc., Ph.D.,
Leeds

T. DRURY, M.Sc., *Leeds*

D. HAYES, B.Sc., *Leeds*

G. M. FRYER, B.Sc., *Leeds*

C. C. A. TSEUNG, Dip. Ing., *Canton*

Analyst

H. A. FONER, B.Sc., *Leeds*

CHEMICAL ENGINEERING

Brotherton Professor and Head of the Department

G. G. HASELDEN, B.Sc., Ph.D.,
London, A.M.I.Chem.E.

Brotherton Senior Lecturer

K. L. BUTCHER, B.Sc., *London*,
M.I.Chem.E., F.R.I.C.

Lecturers

A. POLLARD, B.Sc., *Leeds*, A.R.I.C.,
A.M.I.Chem.E.

F. H. CASS, B.Sc., *Leeds*

I. R. McDOUGALL, B.Sc., *London*,
A.M.I.Chem.E.

C. N. COLLINGE, M.A., *Cambridge*,
A.M.I.Chem.E.

J. R. HULETT, B.A., D.Phil., *Oxford*

Assistant Lecturers

T. MATTHEWS, B.Sc., *Leeds*

One vacancy

Demonstrator

G. MARTIN, B.Sc.(Eng.), *London*

Research Assistant

J. BUTTERFIELD, B.Sc., *Leeds*

METALLURGY

Professor and Head of the Department

J. NUTTING, M.A., *Cambridge*, B.Sc.,
Ph.D., *Leeds*

THE STAFF

Lecturers

R. SHUTTLEWORTH, B.Sc., *Leeds*,
Ph.D., *Bristol*
P. A. FELTHAM, M.Sc., Ph.D.,
London, D.Sc., *Leeds*, F.Inst.P.
I. CODD, B.Sc., Ph.D., *Leeds*, A.I.M.
P. R. BEELEY, B.Met., Ph.D., *Sheffield*,
F.I.M.
R. M. DOUTHWAITE, B.Sc., *Leeds*
P. M. KELLY, B.A., *Cambridge*

Honorary Lecturer

W. R. BERRY, M.Sc., *Manchester*, Ph.D.,
Leeds, M.I.Mech.E., F.I.M., F.R.I.C.

Research Assistant

W. N. ROBERTS, M.A., *Saskatchewan*

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Leeds, M.Inst.F., M.Inst.Gas E.

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Oxford
J. K. KILHAM, B.Sc., Ph.D., *Leeds*,
A.R.I.C.

Research Chemists

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A.R.I.C.
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G. L. ISLES, B.Sc., Ph.D., *Leeds*
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D. WHITE, B.Sc., *London*
A. WILLIAMS, B.Sc., Ph.D., *Leeds*

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P. G. DUNHAM, B.Sc., *Leeds*
J. D. HICKS, B.Sc., *Leeds*
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Leeds
D. JONES, D.L.C.
M. KERSHAW, B.Sc., *Leeds*
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G. B. STREET, B.Sc., *Leeds*
Mrs. MARGARET TOWNSHEND,
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Miss MAUREEN FARRAR
Miss FRANCES HILL
Miss ALISON J. MOODY
Miss GILLIAN MARTINDALE

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<i>Senior Technicians</i>	R. SWALES W. BELL G. FLETCHER E. H. CAMM J. M. GALLIVAN

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<i>Research Professor of Wool Textile Engineering</i>	Vacant
<i>Professor of Textile Technology</i>	C. S. WHEWELL, B.Sc., Ph.D., <i>Leeds</i> , F.R.I.C., F.T.I.
<i>Professor of Biomolecular Structure and Honorary Reader in Textile Physics</i>	W. T. ASTBURY, M.A., Sc.D., <i>Cambridge</i> , Hon. D.Sc., <i>Strasbourg</i> , F.Inst.P., F.R.S., Member of the Royal Society of Sciences of Uppsala, Foreign Member of the Swedish Royal Academy of Sciences
<i>Reader in Textile Industries</i>	N. H. CHAMBERLAIN, B.Sc., Ph.D., <i>Leeds</i> , F.T.I.
<i>Reader in Textile Physics</i>	H. J. WOODS, M.A., <i>Oxford</i> , F.Inst.P.
<i>Senior Lecturer in Yarn Manufacture</i>	P. P. TOWNEND, B.Sc., Ph.D., <i>Leeds</i> , F.T.I.
<i>Senior Lecturer in Weaving Mechanism</i>	D. C. SNOWDEN, M.Sc., <i>Leeds</i> , F.T.I.
<i>Senior Lecturer in Textile Design</i>	C. KISBY, A.R.C.A., A.T.I.
<i>Lecturer in Textile Testing</i>	W. J. ONIONS, B.Sc., <i>Wales</i>
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<i>Honorary Lecturer in Textile Engineering</i>	G. F. RAPER, M.A., <i>Cambridge</i>
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THE STAFF

<i>Lecturer in the Chemistry of High Polymers</i>	A. R. MATHIESON, M.Sc., <i>Durham</i> , Ph.D., <i>Nottingham</i> , A.R.I.C.
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	P. T. SPEAKMAN, M.A., D.Phil., <i>Oxford</i>
<i>Lecturers in Textile Physics</i>	J. SIKORSKI, Dipl. Ing., <i>Warsaw</i> , M.Sc., Ph.D., <i>Leeds</i> , A.Inst.P.
	A. SKERTCHLY, B.Sc., <i>Melbourne</i> , M.Sc., Ph.D., <i>Leeds</i> , A.Inst.P.
<i>Assistant Lecturer in Textile Physics</i>	Vacant
<i>Lecturer in Cloth Analysis and Cloth Structure</i>	D. YOUNG, A.T.I.
<i>Textile Technologists</i>	D. I. POOLE, A.T.I. D. G. BRATT, A.T.I. N. WADE, A.T.I. J. JONES
<i>Research Chemist and Honorary Lecturer</i>	F. KIDD, M.A., <i>Cambridge</i>
<i>Honorary Fellow</i>	F. W. DRY, D.Sc., <i>Leeds</i>
<i>International Wool Secretariat Fellows</i>	J. C. ATKINSON, M.Sc., <i>Leeds</i> Miss MARCA BURNS, B.Sc., <i>Edinburgh</i> F. FRANK, B.S., <i>Lowell Tech. Inst.</i> , M.S., <i>Cornell</i> Mrs. SHEILA M. MATHIESON, B.Sc., Ph.D., <i>Nottingham</i> L. J. WOLFRAM, Magister Inzynier, <i>Lodz</i> , Ph.D., <i>Leeds</i>
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<i>Research Assistants</i>	Miss CATHERINE M. C. DORKIN, M.Sc., Ph.D., <i>Leeds</i> H. J. A. SIDE, B.A., <i>Cambridge</i> Miss VERA SHACKLETON Miss KATHLEEN M. EULER
<i>Museum Curator and Librarian</i>	Mrs. JEAN E. LILLER
<i>Departmental Secretary</i>	Miss JOYCE DICKINSON
<i>Clerks</i>	Miss MARIE E. PHILPOTT

Chief Technicians

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H. WOOD
L. BRAYSHAW
E. A. MATHER
R. K. WATSON

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*Appointed under a grant from the Agricultural Research Council.

†By arrangement with the National Institute of Agricultural Botany.

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MEDICINE

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<i>Agricultural Economics</i>	Mr. W. J. THOMAS, University of Manchester

The Faculty of Medicine

<i>Anatomy</i>	Professor G. M. WYBURN, University of Glasgow
<i>Physiology</i>	Professor R. C. GARRY, University of Glasgow
<i>Biochemistry</i>	Professor J. N. DAVIDSON, University of Glasgow
<i>Pharmacology</i>	Professor W. L. M. PERRY, University of Edinburgh
<i>Pathology</i>	Professor R. C. CURRAN, St. Thomas's Hospital Medical School, London, S.E.1.
<i>Bacteriology</i>	Professor R. CRUICKSHANK, University of Edinburgh
<i>Medicine</i>	Professor W. MELVILLE ARNOTT, University of Birmingham
<i>Dermatology</i>	Dr. A. ROOK, 12 Brook Street, Cambridge
<i>Paediatrics</i>	Dr. P. R. EVANS, Department of Child Health, Guy's Hospital, London, S.E.1
<i>Psychological Medicine</i>	Professor M. ROTH, King's College, University of Durham
<i>Surgery</i>	Mr. T. McW. MILLAR, 1 Randolph Crescent, Edinburgh 3
<i>Obstetrics and Gynaecology</i>	Professor N. MORRIS, Charing Cross Hospital Medical School, 62-65 Chandos Place, London, W.C.2
<i>Public Health</i>	Professor W. J. E. JESSOP, Moyne Institute of Preventive Medicine, Trinity College, Dublin
<i>Forensic Medicine</i>	Dr. W. R. LESTER JAMES, Welsh National School of Medicine, Cardiff
<i>Dental Subjects</i>	Professor J. AITCHISON, University of Glasgow, and Professor A. O. MACK, King's College, University of Durham

At the time of printing, external examiners for 1960-61 in the following subjects have not been appointed:

Aramaic	Pharmacy
English Literature	Civil Engineering
Icelandic	Mechanical Engineering
Geography	Applied Geophysics
Economics	Ceramics
Economic History	Metallurgy
Social Medicine	Agricultural Botany
Social Anthropology	Agricultural Zoology
Organic Chemistry	Veterinary Science
Zoology	

EXTERNAL EXAMINERS

<i>Government</i>	Professor K. B. SMELLIE, London School of Economics and Political Science, University of London
<i>Sociology</i>	Professor D. V. GLASS, London School of Economics and Political Science, University of London

The Faculty of Law

<i>Law</i>	Professor E. C. RYDER, University of Durham
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The Faculty of Science

<i>Pure Mathematics</i>	Professor D. G. NORTHCOTT, University of Sheffield
<i>Applied Mathematics</i>	Professor G. J. KYNCH, Manchester College of Science and Technology
<i>Statistics</i>	Dr. D. R. COX, Birkbeck College, University of London
<i>Electronic Computation</i>	Mr. H. P. F. SWINNERTON-DYER, Trinity College, Cambridge
<i>Physics</i>	Professor P. B. MOON, University of Birmingham
<i>Inorganic and Physical Chemistry</i>	Professor J. M. ROBERTSON, University of Glasgow
<i>Botany</i>	Professor C. T. INGOLD, Birkbeck College, University of London
<i>Geology</i>	Professor T. S. WESTOLL, King's College, University of Durham
<i>Physiology</i>	Professor R. C. GARRY, University of Glasgow
<i>Biochemistry</i>	Professor F. DICKENS, Middlesex Hospital Medical School, London
<i>Pharmacology</i>	Professor W. L. M. PERRY, University of Edinburgh
<i>Bacteriology</i>	Professor R. CRUICKSHANK, University of Edinburgh

The Faculty of Technology

<i>Electrical Engineering</i>	Professor M. R. GAVIN, University College of North Wales, Bangor
<i>Mining</i>	Professor F. S. ATKINSON, University of Sheffield
<i>Coal Preparation and Mineral Dressing</i>	Professor F. B. HINSLEY, University of Nottingham
<i>Gas Engineering and Fuel Science</i>	Sir CHARLES ELLIS, The Gas Council, 1 Grosvenor Place, London, S.W.1
<i>Chemical Engineering</i>	Mr. F. E. WARNER, Messrs. Cremer and Warner, 17 Queen Anne's Gate, London, S.W.1
<i>Textile Industries</i>	Dr. J. G. MARTINDALE, Scottish Woollen Technical College, Galashiels
<i>Colour Chemistry and Dyeing</i>	Professor D. H. HEY, King's College, University of London
<i>Leather Industries</i>	Dr. J. H. BOWES, British Leather Manufacturers' Research Association, Milton Park, Egham, Surrey

EXTERNAL EXAMINERS

The Faculty of Arts

<i>Greek</i>	Professor M. M. GILLIES, University of Hull
<i>Latin</i>	Professor W. H. SEMPLE, University of Manchester
<i>Hebrew</i>	Professor HENTON DAVIES, Regent's Park College, Oxford
<i>Arabic</i>	The Rev. Dr. W. MONTGOMERY WATT, The Muir Institute, 6 Buccleugh Place, Edinburgh 8
<i>English Language</i>	Dr. E. J. DOBSON, Jesus College, Oxford
<i>French</i>	Professor A. G. LEHMANN, University of Reading; and Dr. L. W. TANCOCK, University College, University of London
<i>Italian</i>	Professor C. DIONISOTTI, Bedford College, University of London
<i>German</i>	Professor W. W. CHAMBERS, University of Glasgow
<i>Russian</i>	Mr. R. F. CHRISTIAN, University of Birmingham
<i>Spanish</i>	Professor S. RECKERT, University College of South Wales and Monmouthshire, Cardiff
<i>Portuguese</i>	Mr. H. B. HALL, University of Liverpool
<i>Modern History</i>	Professor C. L. MOWAT, University College of North Wales, Bangor
<i>Medieval History</i>	Professor C. N. L. BROOKE, University of Liverpool
<i>Ancient History</i>	Professor W. H. SEMPLE, University of Manchester
<i>Philosophy</i>	Professor A. N. PRIOR, University of Manchester
<i>Music</i>	Professor I. KEYS, University of Nottingham
<i>Old Testament History and Religion</i>	Professor G. W. ANDERSON, University of Durham
<i>New Testament Language and Religion</i>	Dr. G. H. BOOBYER, 'Millfield,' Millfield Road, Riding Mill, Northumberland
<i>Biblical and Historical Theology</i>	Rev. Dr. PERCY SCOTT, Hartley Methodist College, Alexandra Road South, Manchester 16
<i>History of Religion</i>	The Rev. Dr. C. T. CHAPMAN, Abinger Rectory, Dorking, Surrey
<i>Philosophy of Religion</i>	Professor T. E. JESSOP, University of Hull
<i>Church History</i>	Rev. Professor J. S. McEWEN, University of Aberdeen
<i>Education</i>	Professor H. M. KNOX, Queen's University, Belfast
<i>Phonetics</i>	Mr. J. L. M. TRIM, 4 Lansdowne Road, Cambridge
<i>Psychology</i>	Professor J. COHEN, University of Manchester
<i>Fine Art</i>	Mr. GILES H. ROBERTSON, University of Edinburgh
<i>Physical Education</i>	Mr. L. E. LIDDELL, The Pollock Institute of Physical Education, 46 Pleasance, Edinburgh 8

The Faculty of Economic and Social Studies

<i>Industrial Relations</i>	Professor M. P. FOGARTY, University College of South Wales and Monmouthshire, Cardiff
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REPRESENTATIVES

Yorkshire Academic Board for Advanced Technology and Commerce	The VICE-CHANCELLOR	March 1961 (3)
	Professor CARTER	March 1961 (3)
	Professor ROBERTS	March 1961 (3)
	Professor SPEAKMAN	March 1961 (3)
	Professor STONER	March 1961 (3)
Yorkshire Board of Legal Studies	The VICE-CHANCELLOR	June 1961 (1)
	Professor JAMES	June 1961 (1)
Yorkshire Council for Further Education	The VICE-CHANCELLOR	March 1962 (3)
	Professor SPEAKMAN	March 1962 (3)
Yorkshire Council for Further Education: Standing Committee	Professor EVANS	March 1962 (3)
Committees:		
Chemistry	Dr. N. H. CHAMBERLAIN	March 1962 (3)
Coal Mining	Professor WHETTON	March 1962 (3)
Commerce	Mr. H. SPEIGHT	March 1962 (3)
Electrical Engineering	Professor CARTER	March 1962 (3)
Fuel	Professor ROBERTS	March 1962 (3)
Gas	Professor ROBERTS	March 1962 (3)
Leather Industry	Professor WARD	March 1962 (3)
Mechanical Engineering	Professor JOHNSON	March 1962 (3)
Metallurgy	Professor ROBERTS	March 1962 (3)
Programme for the Training of Teachers	Mr. A. M. KEAN*	March 1962 (3)
Textiles	Professor WHEWELL	March 1962 (3)
Consultative Committee on Agricultural Education	Professor MCGREGOR	March 1962 (3)
Advisory Panels:		
Physics	Professor STONER	March 1962 (3)
Educational Activities Among Adults	Dr. N. A. JEPSON	March 1962 (3)
Joint Panel on Education for Local Government Officers	Mr. A. H. HANSON	March 1962 (3)
County Advisory Committee for Civil Engineering	Professor EVANS	March 1961 (3)
County Advisory Committee for Management Studies	Mr. F. P. G. WHITAKER	March 1961 (3)
Yorkshire County Boy Scouts' Association	Professor COWLING	
Yorkshire Federation of Women's Institutes, Committees on:		
Drama	Mr. J. W. SAUNDERS	March 1961 (3)
Education and Public Questions	Mr. W. P. BAKER	March 1961 (3)
Yorkshire (W.R.) Institute of Agriculture, Askham Bryan	Professor BYWATER	March 1961 (3)
Yorkshire Rural Community Council	Mr. W. P. BAKER	May 1961 (3)
	Mr. T. B. CALDWELL	May 1961 (3)
Young Men's Christian Associa- tion, Board of Management, City of Leeds	Mr. A. LAING	June 1964 (5)
Zion Sunday School Fund	The Rev. Professor REID	

* Nominated by the Institute of Education

REPRESENTATIVES

Leeds College of Technology	Professor WILSON	Oct. 1961 (1)
Leeds Council of Social Service	Professor GREBENIK	
Leeds International Council	Mr. A. LAING	
Leeds-Lille Friendship Committee	Professor CLAPTON	
Leeds Productivity Committee	Mr. O. H. J. DICK	
Leeds Regional Medical Recruitment Committee	DEAN OF THE FACULTY OF MEDICINE	March 1961 (1)
National Advisory Council for Training and Supply of Teachers	Professor NIBLETT	
National Leathersellers College	Professor BURTON	July 1962 (4)
National Poultry Diploma Board	Professor BYWATER	Dec. 1962 (3)
Provincial Agricultural Economics Service, Advisory Committee	Professor BYWATER	
Public Records, Committee on	Professor LE PATOUREL	
Regional Cancer Service, Special Advisory Committee on	Professor GREEN	June 1961 (1)
	Professor TUNBRIDGE	June 1961 (1)
Regional Rheumatism Committee	The VICE-CHANCELLOR	
	Professor HARTFALL	
	Professor HEMINGWAY	
Religious Education Council of the Diocese of Ripon	Mr. W. B. THOMPSON	May 1961 (3)
Roman York Excavation Committee	Mr. B. R. HARTLEY	
Roundhay High School Scholarship Fund, Administrative Committee	Dr. D. JACKSON	
Royal Anthropological Institute, Joint Committee on Research and Teaching	Dr. L. F. HENRIQUES	Dec. 1962 (5)
Social and Public Administration, Joint University Council for	Professor GREBENIK	Sept. 1961 (1)
	Miss I. E. BROWN	Sept. 1961 (1)
Social Administration Committee	Miss I. E. BROWN	Sept. 1961 (1)
Public Administration Committee	Dr. H. V. WISEMAN	Sept. 1961 (1)
Swarthmore Settlement Council, Leeds	Emeritus Professor J. W. HARVEY	Dec. 1962 (3)
	Dr. J. W. BELTON	Dec. 1962 (3)
Turner and Newall Fellowships, Inter-University Consultative Committee on	Professor SPEAKMAN	
Universities and Accountancy Profession, Joint Committee	Mr. P. M. SHEARD	
Wakefield, Pinderfields Hospital School of Remedial Gymnastics	Mr. R. E. MORGAN	July 1961 (3)
	Dr. S. E. FINLAY	July 1961 (3)
	Mr. P. E. OWEN	July 1961 (3)
West Riding Central Examinations Council	Dr. K. LOVELL*	June 1961 (3)
West Riding Consultative Committee for Education	Miss F. M. STEVENS	March 1961 (1)
West Riding T.A. and A.F. Association		Nov. 1963 (3)
Wool Textile Research Council	The VICE-CHANCELLOR	April 1963 (3)
	Professor SPEAKMAN	April 1963 (3)

*Nominated by the Institute of Education

REPRESENTATIVES

City and Guilds of London		
Institute: Advisory Committees:		
Dyeing of Textiles	Professor BRADLEY	
Leather Manufacture	Professor BURTON	
Consultative Committee for Textile Subjects	Professor SPEAKMAN	
Clinical Research, Joint Committee for	{ The VICE-CHANCELLOR The DEAN OF THE FACULTY OF MEDICINE Professor TUNBRIDGE	March 1961 (1) March 1961 (1) March 1961 (1)
Coxwold Charity	Mr. W. P. BAKER	Oct. 1962 (3)
Dewsbury and Batley Technical and Art College	Mr. D. C. SNOWDEN	July 1962 (3)
Domestic Studies, National Council for	Miss L. M. PITHER	
Education for Industry and Commerce, National Advisory Council on	Professor SPEAKMAN	Jan. 1961
Educational Research, National Foundation for	Professor WALSH	
Federated Superannuation System for Universities, Central Council of	{ Mr. E. WILLIAMSON Mr. W. A. WIGHTMAN	Dec. 1961 (1) Dec. 1961 (1)
Field Studies, Council for the Promotion of, General Advisory Committee	{ Dr. H. HENSON Professor VERSEY	
General Dental Council	Professor HOPPER	July 1964 (5)
General Medical Council	Professor MOIR	July 1962 (3)
Hamlyn Trust	Professor JAMES	
Harrogate Art School	Mr. QUENTIN C. S. BELL	March 1961 (3)
Harrogate Technical Institute	Professor CARTER	March 1961 (3)
Health Visitors Training Centres Standing Conference	{ Professor BRADSHAW Miss F. M. MAWSON Mr. J. MCFARLANE	July 1961
Hemsworth Mining and Technical Institute		
Higher Education Overseas, Inter-University Council for	The VICE-CHANCELLOR	July 1964 (5)
Holgate Hill Educational Settlement, York	Mr. E. A. VAUGHAN	Jan. 1961 (1)
Hospital Standing Joint Committee	{ The VICE-CHANCELLOR Professor SPIERS The DEAN OF THE FACULTY OF MEDICINE	April 1961 (1) April 1961 (1) April 1961 (1)
I.C.I. Fellowships, Inter-University Standing Consultative Committee on	Professor LYTHGOE	
Keighley Technical College	Professor WHEWELL	May 1961 (3)
Leeds Area Nurse-Training Committee	Miss U. M. LISTER	March 1961 (5)
Leeds Children's Holiday Camp Association	Miss E. STEINER	
Leeds College of Art	Mr. QUENTIN C. S. BELL	Oct. 1961 (1)

REPRESENTATIVES

Tadcaster:		
Grammar School	Dr. D. G. BURNS	June 1961 (3)
Oglethorpe and Dawson Educational Foundation	Mr. A. K. C. OTTAWAY	Nov. 1962 (3)
Thirsk:		
Grammar School	Miss S. A. WALLBANK	March 1961 (3)
Skellfield School	Mrs. C. S. WHEWELL	
Todmorden Secondary Schools	Mr. H. STANSFIELD	July 1961 (3)
Upper Agbrigg Secondary Schools	Mr. H. BAXANDALL	July 1961 (3)
Upton Modern School	Mr. A. K. C. OTTAWAY	July 1961 (3)
Wakefield :		
Grammar School	Professor DICKINSON	July 1962 (3)
Silcoates School	Dr. J. W. BAKER	
Whitby Grammar School	Dr. J. E. HEMINGWAY	March 1961 (3)
Wortley Free School Trust	Professor ROBERTS	May 1961 (3)
Yarm Grammar School	Mr. J. W. SAUNDERS	March 1961 (3)
York:		
Pocklington School	Mr. W. TWEDDLE	May 1962 (3)
St. Peter's School	Professor DAVISON	Dec. 1963 (5)
York Secondary Schools:		
Region 1	Dr. Dorothy H. RAYNER	May 1961 (3)
Region 5	Dr. E. LIGHTFOOT	July 1961 (3)

OTHER BODIES

Adult Education, Universities Council for	{ Professor CAMERON Professor RAYBOULD	
Agricultural Botany, Council of the National Institute of	Professor BYWATER	Nov. 1965 (5)
Agricultural Education, Joint Education Committee for	Professor BYWATER	
Akroyd Foundation	{ Professor COWLING Professor DAVISON	June 1965 (5) June 1965 (5)
Archæology, Council for British	{ Professor DAVISON 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. B. S. PAGE	
Barnsley College of Technology	Mr. H. J. KING	July 1961 (3)
Bradford Institute of Technology	Professor JOHNSON	May 1961 (1)
Brighouse Children's Theatre	Mr. E. G. HAUGER	July 1961 (3)
British Drama League (Northern Area Executive Committee)	Dr. R. N. C. COE	
British Legion, Advisory Council on Adult Education of the	Professor RAYBOULD	
British Universities Film Council	Mr. C. WOODHEAD	July 1963 (3)
Castleford, Whitwood Mining and Technical College	Mr. W. L. J. POTTS	July 1961 (3)
Catterick Camp, Co-ordinating Committee for Higher Education in	Professor RAYBOULD	

REPRESENTATIVES

Morley :		
Grammar School	}	Dr. F. J. FOWLER
Modern Schools		
Normanton Grammar School	}	Dr. B. L. WELCH
		Miss O. A. PARRY
		Mr. J. W. COX
Normanton Grammar School Foundation		Dr. B. L. WELCH
Northallerton Grammar School		Dr. J. MACGREGOR
Ossett Grammar School		Dr. N. B. SLATER
Otley, Prince Henry's Grammar School and Foundation		Dr. J. E. GARSIDE
Pickering, Lady Lumley's Grammar and Modern School and Foundation		Mr. W. R. GRIST
Pontefract :		
The King's School	}	Dr. J. W. BELTON
The King's School Foundation		
County Secondary Boys' School		
Pontefract and District Girls' High School	}	Mrs. E. ROBINSON
Willow Park Modern School		
Pudsey :		
County Secondary Schools		Mr. F. A. LONG
Fulneck Boys' School		Dr. J. W. BELTON
Fulneck Girls' School		Miss F. M. STEVENS
Redcar :		
Cleveland Grammar School		Miss D. M. HANNAH
Coatham School		Mr. J. W. SAUNDERS
Richmond High School for Girls		Miss D. M. TURNER
Ripon Grammar School		Miss F. M. STEVENS
Rothwell Grammar School		Mr. H. SPEIGHT
Royston Secondary School		Dr. F. J. FOWLER
Scarborough :		
Girls' High School		Miss M. E. A. BOULTWOOD
High School for Boys		Dr. G. L. THOMPSON
Sedburgh School		Emeritus Professor A. N. SHIMMIN
Selby High School for Girls		Miss V. N. R. McCRIRICK
Settle, Giggleswick School		Professor BYWATER
Settle High School		Miss A. J. MARTIN
Skipton :		
Girls' High School		Miss J. BLOXHAM
Ernsted's Grammar School		Mr. D. E. F. BINYON
Slaitwaite Educational Foundation		Mr. H. BAXANDALL
South Elmsall and South Kirby County Secondary Schools		Mr. J. W. COX
Sowerby Bridge County Secondary Schools		Mrs. E. P. THOMPSON
Stanley Modern School		Mr. H. SPEIGHT

REPRESENTATIVES

Eston Grammar School	Dr. K. L. HUNT	March 1961 (3)
Felkirk County Secondary School	Mr. J. C. MACRAE	July 1961 (3)
Goole:		
Grammar School	} Mr. D. L. SHAW	July 1961 (3)
Modern School		
Halifax:		
Crossley and Porter Schools	Dr. J. E. GARSIDE	May 1961 (3)
Rishworth Grammar School	Professor JAMES	March 1962 (3)
Harrogate:		
County Secondary Schools (Claro Division)	Miss M. E. A. BOULTWOOD	July 1961 (3)
Grammar School	Professor POLSON	July 1961 (3)
Secondary Technical School	Professor CARTER	May 1961 (3)
Heckmondwike Grammar School	Dr. P. A. BRISCOE	July 1961 (3)
Hemsworth:		
Grammar School	} Mr. R. E. MORGAN	July 1961 (3)
Modern School		
Hipperholme Grammar School	Mr. W. B. THOMPSON	Nov. 1963 (3)
Huddersfield, Holly Bank Special School	Professor CRAIG	
Ilkley Grammar School and Foundation	Professor LE PATOUREL	Jan. 1962 (5) Nov. 1961 (3)
Keighley:		
Boys' Grammar School	} Professor WHEWELL	{ May 1962 (5) June 1962 (3)
Girls' Grammar School		
Drake and Tonson's Foundation	Dr. M. R. R. DAVIES	April 1961 (3)
Kinsley Modern School	Mr. R. E. MORGAN	July 1961 (3)
Knaresborough, King James's Grammar School and Grammar School Foundation	Professor POLSON	April 1962 (3)
Leeds Education Committee :		
Allerton Area Advisory Board	Professor VERSEY	Oct. 1961 (1)
Central Area Advisory Board	Professor RUSE	Oct. 1961 (1)
East Leeds Area Advisory Board	Dr. K. LOVELL	Oct. 1961 (1)
Lawnwood Area Advisory Board	Dr. F. E. HOARE	Oct. 1961 (1)
Roundhay Area Advisory Board	Miss M. S. HEWITT	Oct. 1961 (1)
Seacroft Area Advisory Board	Miss L. W. BREBNER	Oct. 1961 (1)
South Leeds Area Advisory Board	Mr. A. M. KEAN	Oct. 1961 (1)
West Leeds Area Advisory Board	Mr. H. BAINES	Oct. 1961 (1)
	Mr. A. H. WOOLRYCH	Oct. 1961 (1)
	Professor PRESTON	Oct. 1961 (1)
Leeds Girls' High School	Professor ULLMANN	June 1963 (3)
Leeds Grammar School	Professor WALSH	May 1961 (3)
	Professor WILSON	May 1961 (3)
Leeds, Mount St. Mary's College	Dr. DOROTHY H. RAYNER	June 1963 (3)
Lupton Foundation	Mrs. E. M. TODD	Feb. 1964 (4)
Malton Grammar School	Mr. W. H. TRICKETT	Oct. 1964 (5)
Mirfield Grammar School	Miss E. M. BOSWORTH	Sept. 1964 (5)

REPRESENTATIVES

Ilkley College of Housecraft	{ Miss F. M. STEVENS* Miss A. J. MARTIN	
City of Leeds College of Art	Mr. J. F. FRIEND*	
†City of Leeds Day Training College	Professor WALSH* Professor CAMERON	
Margaret McMillan Training College	Mr. A. M. KEAN	
North Riding Training College	{ Professor RAYBOULD Miss M. M. SMITH*	April 1961 (1)
Ripon Training College	Professor REID*	
Woolley Hall	{ Mr. A. M. KEAN* Miss M. C. PARNABY*	
Yorkshire Training College of Housecraft	Miss M. E. A. BOULTWOOD*	

GOVERNING BODIES OF SCHOOLS

Aireborough County Secondary Schools	Miss O. A. PARRY	July 1961 (3)
Askrigg, Yorebridge Grammar School	Dr. J. MacGREGOR	March 1961 (3)
Barnsley and District: Broadway Technical Grammar School	Mr. H. J. KING	May 1961 (3)
Holgate Grammar School	Professor HAPPOLD	Jan. 1962 (5)
Grammar School Foundation	Professor HAPPOLD	Jan. 1961 (3)
Batley : Grammar School Foundation Group 1 Secondary Schools	Dr. J. P. ROBERTS Mrs. G. M. BONSER	March 1961 (3) July 1961 (3)
Bentham, Collingwood and Baynes Foundation	Emeritus Professor J. W. HARVEY	Dec. 1963 (5)
Beverley Grammar School	Professor VERSEY	Dec. 1963 (3)
Bingley Grammar School	Professor R. F. BROWN	Sept. 1961 (3)
Bradford Girls' Grammar School	Mrs. R. E. TUNBRIDGE	Oct. 1962 (3)
Bradford Grammar School	Professor A. J. BROWN	Dec. 1963 (3)
Bridlington School and School Foundation	Mr. W. H. BODDINGTON	Nov. 1961 (3)
Brighouse: Grammar School for Girls	Miss S. A. WALLBANK	July 1961 (3)
Rastrick Grammar School	Mr. P. M. SHEARD	July 1963 (3)
Calder High School	Miss S. A. WALLBANK	July 1961 (3)
Castleford Secondary Schools	Professor JEFFARES	July 1961 (3)
Cleckheaton, Whitcliffe Mount Grammar School	{ Mr. J. C. MACRAE Professor TUNBRIDGE	Dec. 1962 (3) Dec. 1962 (3)
Colne Valley Secondary School	Mr. A. M. KEAN	July 1961 (3)
Cudworth Secondary School	Dr. F. J. FOWLER	July 1961 (3)
Dewsbury Secondary Schools	Dr. J. MACARTHUR	June 1963 (3)
Drax, Read Grammar School	Professor ORTON	March 1961 (3)
Easingwold Grammar and Modern School	Mr. T. B. CALDWELL	March 1961 (3)
Elland Grammar School	Mr. H. BAXANDALL	July 1961 (3)

* Nominated by the Institute of Education

† Provisional

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 (a) and (b):
 - (a) 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).

(b) Applicants admitted to any other courses of study in the University may be 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.

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

9. The last dates for the receipt of applications for admission at the beginning of a session are 31 January, and from persons resident overseas, 31 May. Applications received after these dates will be considered if places are available.

Matriculation

10. Applicants for admission to read for degrees 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 of the Board, 315 Oxford Road, Manchester 13.

11. The University imposes certain additional requirements with respect to admission to read for degrees in certain Faculties and departments. Principally these are:

- (a) A pass in Latin at the ordinary level in an examination for the General Certificate of Education by students wishing to take special studies courses in French, Italian or Spanish or in a modern languages grouping which includes one of these.
- (b) A pass in mathematics at the ordinary level in an examination for the General Certificate of Education by students wishing to read for a degree in medicine or dentistry.

Applicants for admission are advised to consult the appropriate prospectus or the *Calendar*, under the subjects which it is proposed to study.

Registration

12. 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 1960-61 will be:

Monday, 3 October, 1960

Tuesday, 4 October, 1960

Wednesday, 5 October, 1960

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 place in the *Calendar*.

- (iii) The Deans and Sub-Deans of the Faculties, the tutor of women students and heads of departments and their staffs will be present to advise students on their schemes of study. Women students must consult the tutor of women students with regard to their schemes of study and 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 class tickets which must be presented on request to the heads of the departments concerned before beginning any course of study.
- (b) The June Registration
- Students already in attendance at the University will receive in June forms 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*

Students in full-time attendance who have not

- (a) obtained a first degree
- or (b) obtained a diploma of this University
- or (c) passed the 2nd M.B., Ch.B., or 2nd B.Ch.D., or an equivalent examination

are required to comply with the following regulations:

- (i) Students who are under the age of 21 must live with their parents, or with relatives or friends of their families, or in a hall of residence of the University, or in a hostel or in lodgings approved by the lodgings warden.
- (ii) Students who have reached the age of 21 may, if they wish, apply to the lodgings warden for permission to transfer (not earlier than the end of the term in which their 21st birthday falls) to an approved flat; such permission will only be given for a transfer to be effective at the beginning of a term and will be conditional upon the parents sending their consent in writing to the lodgings warden. Application to transfer to a flat must be made at least two weeks before the end of a term.
- (iii) Lodgings or flats must be approved as suitable before students take up residence in them, or enter into any contract to do so.

Students in the department of education who are in receipt of a grant as recognised students in training must live in accommodation which is approved by the lodgings warden.

Any students in the University may apply to the lodgings wardens for advice and help in finding accommodation.

All enquiries about lodgings should be made to:

For men: the lodgings warden, Miss Carol P. Abell, B.Com., The University, Leeds, 2.

For women: the warden of women students in lodgings, Mrs. W. A. Sledge, B.A., The University, Leeds, 2.

2. *Of keeping terms*

Students shall enter punctually at the beginning of each term. Students who do not so enter may be refused permission to keep the term. Where delay in entering is due to illness or other unavoidable cause, a communication must be made to the Registrar. In cases of illness the communication should be accompanied by a medical certificate.

3. *Of attendance*

Students shall attend the courses 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, regularly, punctually and in an orderly manner.

Persistent neglect of work, repeated failure in examinations or unreasonable delay in presentation for examination may result in a student's being required to withdraw from the University.

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, Sub-Deans or the Tutor of Women Students 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*

Students who are absent through illness or other sufficient cause shall send a written explanation at once to the Registrar who will inform those concerned.

Students who desire leave of absence shall obtain the permission of the Vice-Chancellor.

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 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.

7. *Of addresses*

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

8. *Of dismissal*

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

9. *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.

10. *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.

11. *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.

12. *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.

13. *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.

14. *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 of the single or Oxford pattern, 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

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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 Laws: light green

Bachelors of Science: middle green

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

Bachelors of Dental Surgery: dark green lined with middle 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 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.

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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.

15. *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 augetur 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, 315 Oxford Road, Manchester 13, 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 professor or lecturer concerned and provided they are received before the last dates of entry for the examinations concerned as published in the University almanac.

5. *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.

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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 at the end of the third term in each session.

GENERAL INFORMATION

1. *Scholarships, fellowships and prizes*

The University offers a number of entrance, senior and graduate scholarships, and fellowships and prizes of which particulars will be found in the *University Calendar* or in the prospectus *Scholarships and Fellowships*.

Scholarships and other awards tenable at the University are also offered by many local authorities including the council of the City of Leeds and the county councils of the North, East and West Ridings of Yorkshire. Information may be obtained from the chief education officer of the authority concerned and from:

Leeds City Council: the Chief Education Officer (higher section),
Education Offices, Calverley Street, Leeds 1.

West Riding County Council: the Chief Education Officer, Education
Department, County Hall, Wakefield.

North Riding County Council: the Secretary, Education Officers, County
Hall, Northallerton.

East Riding County Council: the Chief Education Officer, East Riding
County Council, Beverley.

State scholarships, some in supplementation of University awards, may be offered by the Ministry of Education.

2. *Financial grants to students*

Financial grants or loans may be made to students by the University from specially established funds of which particulars will be found in the *University Calendar* or in the prospectus *Scholarships and Fellowships*.

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

3. *Residence*

The University has a number of halls of residence for men and women students respectively as well as a register of approved lodgings administered by the lodgings warden in the case of men students and by the warden of women students in lodgings.

The halls of residence for men are:

Devonshire Hall: Warden, Mr. D. Hywel Evans, A.M., M.A., B.Sc.

Lyddon Hall: Warden, Mr. R. E. Morgan, B.A.

Sadler Hall: Warden, Mr. B. R. Wilson, B.Sc.(Econ.), Ph.D.

Woodsley Hall: Warden, Mr. J. L. Woodhead, M.A.

The halls of residence for women are:

Ellerslie Hall: Warden, Miss Verena N. R. McCririck, M.A.

Lupton Hall:

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Oxley Hall: Warden, Miss Lettice M. Pither.

Tetley Hall: Warden, Miss Edith M. McAlpine, M.A.

Weetwood Hall: Warden, Miss M. Brenda Carey, LL.B., J.P.

Further particulars of the halls of residence may be obtained from the Registrar.

Men students who do not live in a hall of residence are strongly advised to apply to the lodgings warden in the first instance for accommodation in registered lodgings.

Any woman student requiring accommodation in registered lodgings should consult the warden of women students in lodgings who will help her to obtain suitable accommodation.

4. *The University Union*

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 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 £7 a session. If attendance is for part of a session only the fee will be £2 10s. a term.

Life membership granted before 1st August, 1957, requires the payment of five annual subscriptions or the equivalent thereof, and no further annual subscriptions will be required from such life members unless they take part in games or athletic sports (see below).

Life membership granted on or after 1st August, 1957, requires the payment of a minimum of five annual subscriptions and no student who is not a life member before 1st August, 1957, may become a life member until he ceases to be a registered student. Students who have not paid five annual subscriptions on going down but who have attended for not less than two years in the case of undergraduates or one year in the case of postgraduates will qualify for life membership on paying the balance of five annual subscriptions. Students who have paid five or more subscriptions may, on application to the Union, become life members on ceasing to be registered students. Life membership granted on or after 1st August, 1957, in accordance with this paragraph, 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.

Life members shall not take part in games or athletic sports unless they pay an annual fee of £1 1s.

Members of the Court, the Council, academic and senior administrative staff and friends of the University, may, by sanction of the Union committee, be admitted to honorary membership of the Union at a fee of £1 is. per annum. The fee for honorary life membership is £5 5s.

Associate members, being life members of other university unions, will be required to pay an annual fee of £3 unless they are taking a full-time course at the University or, except in special cases to be determined by the Vice-Chancellor, attending the University for more than six hours a week when the full annual subscriptions will be payable.

5. *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. T. R. Lewis, 67 Hilton Road, Leeds 8. Telephone: Leeds 4-4396.

Church of England

The Rev. G. W. Burningham, B.A., M.A., 74 Clarendon Road, Leeds 2. Telephone: Leeds 2-4840.

Congregational Church

The Rev. L. C. Green, M.A., B.D., Ph.D., 3 Ashwood Terrace, Leeds 6. Telephone: Leeds 5-2528.

Methodist Church

The Rev. J. Banks, M.A., 'North Field', 167 Otley Road, Leeds 6. Telephone: Leeds 5-2323

Presbyterian Church

The Rev. A. S. Cooper, B.A., M.A., 3 The Ring Road, West Park, Leeds 16. Telephone: Leeds 56608.

Roman Catholic Church

The Rev. J. Dukes, S.J., 25 Clarendon Place, Leeds 2. Telephone: Leeds 2-7421.

United Hebrew Congregation

The Ministers, United Hebrew Congregation, Brandsby Lodge, 98 Chapeltown Road, Leeds 7. Telephone: Leeds 4-1351.

6. *Physical education*

The University provides extensive facilities for physical education of which students are strongly advised to take advantage. 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.

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

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.

7. *Student health*

The department of student health undertakes a preliminary medical examination of all students during their first week at the University and a further examination when necessary later in the session and during their second and subsequent years. All students are required to undergo an annual chest X-ray examination by the mass radiography unit unless exemption is obtained. Vaccination against tuberculosis and poliomyelitis is offered to all students.

Students may consult the University medical officer about problems of health and 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.

Provision has been made for students resident in certain of the halls of residence to register under the National Health Service scheme with the University medical officer. Other students are advised to register with a local general practitioner.

8. *Military education*

The University provides facilities for military education through the University Officers Training Corps (T.A.) [which was formed at the University in July, 1909], by the University Air Squadron and by the University contingent of the Women's Royal Army Corps. Information about service with the Royal Navy and the Royal Naval Volunteer Reserve may be obtained from the Naval Liaison Officer, Lieut-Commander C.W. Buckley, 30 Gledhow Wood Grove, Leeds 8.

Officers Training Corps (T.A.)

Honorary Colonel: Her Royal Highness, The Princess Royal, *C.I., G.C.V.O., G.B.E.* (Chancellor of the University)

Commanding Officer: Lieutenant-Colonel E. Williamson, *T.D., B.Sc. (Econ.)*, The Royal Tank Regiment (T.A)

Training Officer: Major R. C. MacCunn, The Queen's Own Cameron Highlanders

Adjutant: Capt. H. G. Hawkins, The Royal Tank Regiment

W.R.A.C. Officer: Major D. L. Job, Women's Royal Army Corps.

The aim of the Corps is to train undergraduates for commissioned service in both the Regular and Reserve Army. 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 parades and 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.

Further information may be obtained from O.T.C. Headquarters at 41 University Road, Leeds 2. Telephone: Leeds 23560.

9. *The appointments board*

The University has an appointments board. The aim of the board is to help students and graduates to obtain suitable employment and to give information and advice about posts in the professions, the Civil Service, industry and commerce. Students who wish to use its services to obtain permanent posts are asked to register with the board and to arrange an interview with the secretary at the beginning of their final year. First and second year science and technology students, who are advised by their departments to obtain suitable practical experience during long vacations, are also welcome to use the board's services.

The board keeps a record of firms and other employers who have openings for graduates, and information about such employers and careers in general is available for consultation in its office, 38 University Road.

10. *The warden of overseas students*

To help students from overseas to take the fullest advantage of their stay in England, the University has appointed a warden of overseas students. This appointment is at present held by Mr. A. Laing, lecturer in education. He will be pleased to advise overseas students on any matters they may bring to him.

The warden's rooms are at 28 Blenheim Terrace, Woodhouse Lane, Leeds 2, directly opposite the main building of the University.

11. *University House*

University House accommodates the Senior Common Room (on the first floor), the refectory (on the ground floor) and the coffee lounge (on the lower ground floor).

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, bar and recreational rooms. Morning coffee and teas are served and luncheon between 12 noon and 2 p.m. and dinners and suppers between 6.30 p.m. and 7 p.m.

Some of the rooms may be reserved by members for private functions. Application should be made to the manageress.

The hours of opening and the rules of the club are posted in the entrance hall.

The refectory, which is open to members of all staffs and students, provides, from Monday to Friday, lunches from 11.45 a.m. to 2 p.m., and high teas from 4.30 p.m. to 6 p.m. Lunches on Saturday are served from 12 noon to 1 p.m.

The main dining rooms operate on the self-service system and a waitress service is available in a smaller dining room at a slightly higher price.

Special arrangements for private functions in the refectory 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 coffee lounge is also open to members of all staffs and students and provides light refreshments between 10 a.m. and 1.45 p.m. and 3 p.m. and 5.30 p.m. on weekdays and from 10 a.m. to 12.30 p.m. on Saturdays. Special arrangements for evening catering may be made with the manageress.

12. *Cloakroom accommodation*

Lockers may be hired in the Parkinson Building, the School of Medicine and the School of Dentistry on application to the porters' office in the building concerned. Lockers may also be hired on the lower ground floor of University House on application to the porters' office in the University Union.

13. *The Universities' Yearbook*

A volume entitled *The Yearbook of the Association of Universities of the British Commonwealth* is published annually in March and contains an epitome of the calendars of the universities of the British Commonwealth and a brief record of the developments in each university, together with a number of appendices which include particulars relating to professions and careers for which university studies are a fitting preparation, qualifications for admission to a first degree in the universities of Great Britain and Ireland, a directory to subjects of study, details of open fellowships, postgraduate scholarships and grants for advanced study and research and short descriptions of the centres of scientific research and information within the Commonwealth. Copies may be obtained from the Association of Universities of the British Commonwealth, 36 Gordon Square, London, W.C.1. Universities which are ordinary members of the Association and university colleges and institutions connected therewith, as well as Associate and Additional Members, and members of the staffs of all such institutions may obtain copies direct from the Association at a reduced price of £2 18s. 6d. post free. The University of Leeds is an ordinary member of the Association.

14. *University publications*

The *Calendar* is published annually in October and may be obtained from the Registrar, price 15s. plus postage. Copies may be consulted in the Library and in the University Union.

Copies of the *Register of Graduates*, a list giving the names of all persons who have graduated in the University from its foundation until July, 1960, together with the degrees (including honorary and *ad eundem* degrees) which have been conferred upon them, may be obtained from the Registrar, price 12s. 6d. (limp cloth), 15s. (uniform with the *Calendar*). Editions of the complete register will be published every fifth year only. For the intervening years, editions of the *Calendar* will contain cumulative lists of graduates in supplementation of the latest complete register.

UNIVERSITY PUBLICATIONS

The following prospectuses are available, price 6d. post free unless otherwise stated:

General Regulations and Fees (free)
Scholarships and Fellowships
The Faculty of Arts
The Faculty of Economic and Social Studies
The Faculty of Law
The Faculty of Science
The School of Medicine
The School of Dentistry
The Department of Education
Civil, Mechanical and Electrical Engineering
Mining
The Houldsworth School of Applied Science (comprising departments of
gas engineering and general fuel science with ceramics, metallurgy
and chemical engineering)
Department of Textile Industries
Colour Chemistry and Dyeing
Department of Leather Industries
Agriculture
Courses in Pure Science

Copies of the *University Gazette* may be obtained from the porters' offices and from the office of the clerk to the University Union, price 6d. each.

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 1950-1, 1952-3, 1953-4, 1954-5, 1955-6, 1956-7, and 1957-8 are available, price 2s. 6d. each.

THE LIBRARY

INTRODUCTORY

The University library contains the following constituent parts:

1. The Brotherton library
2. The agricultural library
3. The textile 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 613,694 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 Collection contains 44,678 volumes and pamphlets, 1,143 manuscripts, 4,106 deeds and 34,467 letters.

The medical library which is situated in the School of Medicine consists of 36,878 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.

SPECIAL COLLECTIONS

The Brotherton Collection includes medieval manuscripts, 251 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

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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 is continuing to develop this collection, and has been appointed by the University 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 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.

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 and from 9 a.m. to 1 p.m. on Saturday 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 from 23rd December at 5 p.m. up to and including 30th December; from Maundy Thursday at 5 p.m. up to and including Easter Tuesday; on Whit Monday and Tuesday; and on August Bank Holiday Monday and Tuesday.

2. *Admission*

(a) Members of the Court, emeritus professors, members of the teaching, research and administrative staff, associates of the Yorkshire College, 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 10s. 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 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 so long as the form remains in the library uncanceled.

(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

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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 6d. in respect of each day or portion of a day by which the return of a book is overdue.

(d) Theses of the University, with certain exceptions, may, with the consent of the Librarian, be consulted or borrowed.

(e) Books may not be taken abroad without the special permission of the Librarian.

(f) 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.

(g) The Librarian may withhold or restrict the circulation of any book in the library.

(h) 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 and research students

(a) 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.

(b) Postgraduate research students shall have the same privileges and be subject to the same regulations in respect of borrowing from the library as members of the staff, except that they may not have at one time more than ten books borrowed from the library.

6. 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 rule 5 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 6(c) every book shall be returned to the library on or before the fourteenth day following that on which it was taken out; provided that a book may be renewed for one further period of a fortnight unless it is required by another person. Application for renewal may be made personally or by post. Further renewals are allowed only with the special permission of the Librarian.

(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 6(b) and 6(c) shall entail a fine of 1d. in respect of each day or portion of a day by which the return of a book is overdue.

7. *Annual inspection*

All books shall be returned to the library by 5 p.m. on Monday in the last week but one of the third term. The issue of books will be suspended during the inspection, but will be resumed not later than the following Monday. Failure to return books under this rule shall involve a fine of 2d. 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 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.

9. *Special collections*

Admission to the rooms on the lower ground floor which contain special collections will be given to members of the teaching, research and senior administrative staff upon application to the Librarian, and may also be given to such students and other persons as seem to the Librarian able to make good use of the privilege.

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.

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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 to 5 p.m. from Monday to Friday; on Saturday from 9 a.m. to 12 noon.
7. The rooms are closed for one week at Christmas, on the public holidays, and on all occasions when the Brotherton library 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.

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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.

FOR THE AGRICULTURAL LIBRARY

The library which is situated in the department of agriculture 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 during one week at Christmas, on public holidays, and on all other days on which the University buildings are closed.

It is subject to the regulations of the Brotherton library, with the exception of regulations 3(c) and (d), 4(b) and (c), and 7, 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 2d. 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.

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FOR THE TEXTILE 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 for ten days at Christmas, on public holidays, and on all other days on which the University buildings are closed.

It is subject to the regulations of the Brotherton library, with the exception of regulations 3(b), (c) and (d), 4(c) and (d), 6(d), and 7, 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. There are two copies of every textile thesis—a copy which may be borrowed and a reference copy. The latter is available only for consultation in the library.
3. A fine of 2d. per day is levied for each day during which a book is retained beyond the prescribed period, or beyond any date, of which a week's notice will be given, of recall for the annual inspection.
4. All books must be returned to the library for the annual inspection, ordinarily held in June.

FOR THE MEDICAL LIBRARY

1. *Hours of opening*

The library is open on Monday to Friday, from 9 a.m. to 6 p.m., and on Saturday, from 9 a.m. to 1 p.m., except during the long vacation when it 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 from 24th to 30th December inclusive; from Good Friday to Easter Tuesday inclusive; on Whit Monday and Tuesday; and on August Bank Holiday Monday and Tuesday.

2. *Admission*

(a) Members of the academic staff of the University, 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:

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(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 one guinea 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 uncanceled.

(b) All books may normally be borrowed with the exception of works of reference and books of special value and rarity; but the Librarians 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. Failure to comply with this condition will incur a fine of 6d. for each day or portion of a day for which a book is retained.

The four most recent bound volumes of the *British Medical Journal* and the *Lancet* are treated as books of reference, and the current issues of these journals may not be borrowed.

(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.

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(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-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 1d. in respect of each day or portion of a day for which the return of a book is overdue. A list of defaulters will be exhibited in the library.

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 2d. 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. The cost of postage is charged to the applicant.

THE LIBRARY

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 1 p.m., except during the long vacation when it 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 from 24th to 30th December inclusive; from Good Friday to Easter Tuesday inclusive; on Whit Monday and Tuesday; and on August Bank Holiday Monday and Tuesday.

2. *Admission*

(d) The borrowing fee for external users of the library is 10s. for twelve months.

4. *Borrowing in general*

(c) The proviso concerning the *British Medical Journal* and the *Lancet* does not apply.

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 School library.

FOR THE LAW LIBRARY

The library which is situated in the department of law is open on Monday to Friday from 9 a.m. to 12.45 p.m. and from 2 p.m. to 5 p.m., and on Saturday from 9 a.m. to 1 p.m. (9 a.m. to 12.30 p.m. during the long vacation).

It is closed during one week at Christmas, on public holidays, and on all other days on which the University buildings are closed.

It is subject to the regulations of the Brotherton library, with the exception of regulations 3(d), 4(c), and 7, 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

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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 6d. 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 2d. 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

The University Coin Collection is kept for the time being in the Brotherton Library. 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, the Librarian may act in his place.

2. *Visiting numismatists*

Visiting numismatists may have access to the Collection each Monday to Friday from 10 a.m. till 12 noon and from 2 p.m. till 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 library staff, will be present whenever coins are being studied.
- (c) No coins may be moved from the Coin Room.

3. *Members of 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. A voucher must also be signed at the reading room counter, and should be claimed as a receipt when coins are returned.
- (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.

F E E S

INTRODUCTORY

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 class ticket entitling the student to attend such courses. This ticket 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. Where fees are being paid in instalments (Table 2, page 260) the whole of the remaining instalments must be paid.

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 253 to 259.

Unless otherwise stated, payment of the inclusive academic fee entitles a student to membership of the University Union.

Students paying a fee of £57 or more 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 may be paid either sessionally in advance or (with certain exceptions) by terminal instalments. Details of the procedure to be followed for payment by terminal instalments are given in table 2 on page 260.

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 below and in the appropriate tables.

OTHER FEES AND CHARGES

Examination late entry fee

Examination entries will be accepted after the last dates for receipt shown in the University *Calendar* only on payment of an additional fee of 10s. 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.

Re-examination fee

Details of re-examination fees are shown in table 3 on page 261.

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 4 on page 262.

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 5 on page 263.

Library

All registered students of the University are entitled to use the libraries without payment.

Recapitulatory and other courses in medical, surgical and dental subjects

Details of the fees for these courses are shown in table 6 on page 264.

Deposits

Students in the Faculties of Science, Technology 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 7 on page 265.

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. Details of these additional charges are given in table 8 on page 266.

FEES FOR RESIDENCE

Students who do not live at home or with relatives are required to live in halls of residence or in approved lodgings. Fees for residence are set out in table 9 on page 268.

FEEs

TABLE 1
INCLUSIVE ANNUAL ACADEMIC FEES
THE FACULTY OF ARTS

	£
<i>Bachelor of Arts in general, combined and special studies</i>	57
<i>Bachelor of Arts in special studies in textile design or in textile management</i>	67
<i>Bachelor of Divinity</i>	
Graduates of the University	
One-year course	37
Two-year course	
First year	32
Second year	22
Others	32
<i>Bachelor of Music</i>	37
<i>Master of Arts</i>	
Graduates of the University	
With supervision	
First year	32
Second and subsequent years	12
Without supervision (single payment)	15*
Others	37
<i>Master of Education</i>	
Two-year course (full time)	
Graduates of the University	32
Others	37
Three-year course (part-time)	
Graduates of the University	24
Others	27
<i>Doctor of Philosophy</i>	
Candidates studying at the University	37
Candidates studying at other approved institutions (single payment)	30*
<i>Doctor of Letters</i>	30*
<i>Doctor of Divinity</i>	30*
<i>Doctor of Music</i>	30*

*This fee does not entitle the student to membership of the University Union.

FEES

	£
<i>Diploma in Hebrew</i>	
One-year course	37
Two-year course	
First year	15*
Second year	15*
<i>Diploma in Spanish</i>	9*
<i>Diploma in theology</i>	44
<i>Postgraduate diploma in English studies</i>	100
<i>Graduate certificate in education</i>	67
<i>Graduate certificate in educational studies</i>	67
<i>Diploma in primary education</i>	
Full-time course	67
Part-time course	30*
<i>Diploma in secondary education</i>	
Full-time course	67
Part-time course	30*
<i>Diploma in the education of backward children</i>	
Full-time course	67
Part-time course	30*
<i>Diploma in religious education</i>	
Full-time course	67
Part-time course	15*
<i>Diploma in physical education</i>	92
<i>Certificate in the teaching of Hebrew</i>	Fees at scale in table 4
<i>Certificate in Russian</i>	Fees at scale in table 4
<i>Certificate in Arabic</i>	Fees at scale in table 4

*This fee does not entitle the student to membership of the University Union.

FEEs

THE FACULTY OF ECONOMIC AND SOCIAL STUDIES

	£
<i>Bachelor of Commerce</i>	
With accountancy or statistics	57
*With agricultural economics or a technological subject	67
<i>Master of Commerce</i>	
Graduates of the University	
With supervision	
First year	32
Second and subsequent years	12
Without supervision (single payment)	15*
Others	37
<i>Doctor of Philosophy</i>	
Candidates studying at the University	37
Candidates studying at other approved institutions (single payment)	30*
<i>Diploma in social studies</i>	
One-year course	
Students who have paid three inclusive academic fees	47
Others	57
Two-year course	
First year	57
Second year	47

*This fee does not entitle the student to membership of the University Union.

FEES

THE FACULTY OF LAW

	£
<i>Bachelor of Laws</i>	57
<i>Master of Laws</i>	
Graduates of the University	
With supervision	
First year	32
Second and subsequent years	12
Without supervision (single payment)	15*
Others	
First year	32
Second and subsequent years	17
<i>Doctor of Philosophy</i>	
Candidates studying at the University	37
Candidates studying at other approved institutions (single payment)	30*
<i>Doctor of Laws</i>	30*
<i>Statutory course for certificate under the Solicitors Acts, 1932 and 1936</i>	20*

*This fee does not entitle the student to membership of the University Union.

FEES

THE FACULTY OF SCIENCE

	£
<i>Bachelor of Science in general or special studies</i>	67
<i>Bachelor of Science in special studies in mathematics or geography</i>	57
<i>Master of Science</i>	
With laboratory facilities	47
With supervision but without laboratory facilities	
First year	32
Second and subsequent years	12
Without supervision (single payment)	15*
<i>Doctor of Philosophy</i>	
Mathematics or geography	
Candidates studying at the University	37
Candidates studying at other approved institutions (single payment)	30*
Other subjects	
Candidates studying at the University	47
Candidates studying at other approved institutions (single payment)	30*
<i>Doctor of Science</i>	
Mathematics or geography	30*
Other subjects	40*
<i>Postgraduate diploma in electronic computing</i>	67
<i>Postgraduate diploma in the history and philosophy of science</i>	67

*This fee does not entitle the student to membership of the University Union.

FEES

THE FACULTY OF TECHNOLOGY

	£
<i>Bachelor of Science</i>	67
<i>Master of Science</i>	
With laboratory facilities	47
With supervision but without laboratory facilities	
First year	32
Second and subsequent years	12
Without supervision (single payment)	15*
<i>Doctor of Philosophy</i>	
Candidates studying at the University	47
Candidates studying at other approved institutions (single payment)	30*
<i>Doctor of Science</i>	40*
<i>Postgraduate diplomas</i>	
Concrete technology	47
Other subjects	67
<i>Non-graduate diplomas</i>	67

*This fee does not entitle the student to membership of the University Union.

FEES

THE FACULTY OF MEDICINE

	£
<i>Bachelor of Medicine and Bachelor of Surgery*</i>	67†
Three-year clinical course	67
<i>Bachelor of Dental Surgery</i>	67‡
<i>Master of Surgery</i>	25§
<i>Master of Dental Surgery</i>	25§
<i>Doctor of Medicine</i>	25§
<i>Diploma in public health</i>	
First year	50§
Second year	30§
<i>Diploma in psychological medicine</i>	
Part 1 (three terms)	55§
Part 2 (six terms)	80§
Part 2 (candidates proceeding to external examinations)	70§
<i>Diploma in dental surgery</i>	67
<i>Diploma in nursing</i>	28§
<i>Nurse teacher's certificate</i>	55§
<i>Health visitors training course</i>	53

*RESIDENCE. For a part of the medical course, students must be in residence in Croft Hall for which a fee of £50 for a single room or £46 for a shared room is charged. £12 per year for the first four years of a full course or £16 per year for the three-year course is payable 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 medical or dental degree course is shorter than three terms the fee payable will be £22 10s. a term.

‡A conferment fee of £10 is payable by students registered for the degree of Bachelor of Dental Surgery, who are permitted to sit, and are successful in the examinations for the diploma in Dental Surgery, or are awarded the diploma on the results of the degree examinations.

§This fee does not entitle the student to membership of the University Union.

TABLE 2
 TERMINAL INSTALMENTS

Applicable only to students reading for a first degree or diploma

Inclusive academic fees paid by terminal instalments are calculated and are payable in accordance with the following:

First instalment (payable on registration)	50 per cent of the inclusive academic fee.
Second instalment (payable not later than the end of the first week of the second term)	30 per cent of the inclusive academic fee, plus £1.
Third instalment (payable not later than the end of the first week of the third term)	20 per cent of the inclusive academic fee, plus £1.

A student who elects to pay inclusive academic fees by instalments and who withdraws from the University before the end of a session, must pay the whole of the remaining instalments of the session's fees.

FEES

TABLE 3
RE-EXAMINATION FEES

The maximum re-examination fee payable on any one occasion is £6 except in the case of the fees marked with an asterisk.

	£	s.	d.	
<i>Bachelor of Arts, Music, Commerce or Laws</i>	1	10	0	per subject
<i>Bachelor of Science</i>				
First-year, second-year and Introductory courses	1	10	0	„ „
Final or principal courses	3	0	0	„ „
<i>Bachelor of Science in special studies in mathematics or geography</i>	1	10	0	„ „
<i>Bachelor of Medicine and Bachelor of Surgery</i>				
First examination	1	10	0	„ „
Second examination	2	0	0	„ „
Third examination	2	0	0	„ „
Fourth examination	2	0	0	„ „
Final examination	3	0	0	„ „
<i>Bachelor of Dental Surgery and the diploma in dental surgery</i>				
First examination	1	10	0	„ „
Second examination	2	0	0	„ „
Third examination	2	0	0	„ „
Final examination	3	0	0	„ „
<i>Master of Surgery</i>	10	0	0*	
<i>Master of Dental Surgery</i>	10	0	0*	
<i>Doctor of Medicine</i>	10	0	0*	
<i>Diplomas in subjects within the Faculty of Arts</i>	1	0	0	per subject
<i>Diploma in social studies</i>	1	0	0	„ „
<i>Diploma in public administration</i>	1	10	0	per part
<i>Postgraduate diplomas in subjects within the Faculty of Technology</i>	3	0	0	
<i>Non-graduate diplomas in subjects within the Faculty of Technology (except textile industries)</i>	1	0	0	„ subject
<i>Diploma in textile industries</i>	10	0		„ paper
<i>Diploma in psychological medicine</i>	5	5	0	(first part)
	10	10	0*	(second part)
<i>Diploma in public health</i>	10	0	0*	
<i>Diploma in nursing</i>	3	0	0	per part
<i>Graduate certificate in education</i>	1	10	0	„ „
<i>Certificates in subjects within the Faculty of Arts</i>	1	0	0	„ subject
<i>Nurse teacher's certificate</i>	3	0	0	„ part

FEEES

TABLE 4

FEEES FOR SEPARATE LECTURES, LABORATORY OR PRACTICAL WORK

Fees for separate lectures, laboratory or practical work are calculated and payable according to the following:

	£	s.	d.
The first lecture hour per week per subject:			
One term	3	0	0
Two terms	4	10	0
Three terms	6	0	0
Each subsequent lecture hour per week			
One term	1	10	0
Two terms	2	5	0
Three terms	3	0	0
Each laboratory hour per week			
One term	1	10	0
Two terms	2	5	0
Three terms	3	0	0

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	0	0
2 days per week	4	0	0
3 days per week	6	0	0
4 or more days per week	8	0	0

TABLE 5

FEES FOR RESEARCH

	£
One month	6
One term	18
Three terms	42
Persons engaged on private industrial research per month	10*

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 4 will be charged.

*Plus additional charge for any special expenditure by the University.

FEEES

TABLE 6

FEEES FOR RECAPITULATORY AND OTHER COURSES
IN MEDICAL, SURGICAL AND DENTAL SUBJECTS

RECAPITULATORY COURSES

<i>For the degrees of Bachelor of Medicine and Bachelor of Surgery</i>	£	s.	d.
Anatomy and physiology			
Three months	8	0	0
Six months	16	0	0
Anatomy, three months	5	0	0
Physiology, three months	5	0	0
Pharmacology, three months	3	0	0
Pathology and bacteriology, three months	3	0	0
Other subjects, three months	3	0	0
Clinical fee per six months extension period (or less)	20	0	0

For the degree of Bachelor of Dental Surgery and the diploma in dental surgery

Anatomy	15	0	0
Physiology	15	0	0
Anatomy and physiology concurrently	24	0	0
Dental anatomy and physiology (three months)	3	0	0

OTHER COURSES

Lectures in dietetics for the School of Dietetics	4	0	0
Temporary hospital practice at the General Infirmary at Leeds			
Two months	5	0	0
Three months	7	10	0
Four months	10	0	0
Six months	15	0	0
Use of dissecting room (external students)			
One month	3	0	0
Three months	7	0	0
'Perpetual studentship' of the General Infirmary at Leeds entitling to admission to ordinary clinical instruction. (For registered practitioners who are not graduates in medicine and surgery of the University.)	17	10	0
Dentistry			
Additional practice			
Three months	14	0	0
Six months	26	0	0
Postgraduate work, per half day	1	10	0
Additional pupilage in dental mechanics			
Two months	8	0	0
Three months	14	0	0
Nine months	40	0	0

FEES

TABLE 7

DEPOSITS

The following deposits are payable:	£	s.	d.
1. By students in the Faculty of Science reading for the degree of Bachelor of Science in special studies in pharmacy or pharmacology, per session	2	10	0
2. By students in the Faculties of Science, Technology and medicine			
(a) Working in the laboratories of the school of chemistry, for apparatus, per session	4	0	0
(b) Working in the laboratories of the departments of botany or agriculture, for apparatus, per session	2	10	0
(c) Working in the laboratories of the department of mining, for instruments and equipment, per session	2	10	0
(d) Working in the laboratories of the department of leather industries, for apparatus	2	0	0
3. By students in the Faculty of Medicine			
(a) Reading for an initial medical qualification, for materials and apparatus in the department of physiology. Minimum 10s. not returnable	1	5	0
(b) Reading for an initial medical qualification in the department of pathology, for slides. Minimum 5s. not returnable	1	10	0
4. By postgraduate and research students in the Faculties of Science and Technology			
(a) Working in the departments of the school of chemistry, for apparatus	10	0	0
(b) Working in the departments of physics, botany, zoology, textile industries, colour chemistry and dyeing, leather industries and agriculture, for apparatus	5	0	0
(c) Working in the department of mining, for apparatus	2	10	0

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; those under paragraph 4 at the beginning of the candidate's course.

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 (those under paragraph 4 at the end of the course) 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 8
MISCELLANEOUS CHARGES

The following miscellaneous charges are payable:		£	s.	d.
1.	By students working in the departments of agriculture, botany, geology and zoology, and by dental students working in the department of anatomy, for hire of microscope, per session*	2	10	0
2.	By students working in the laboratories of the school of chemistry, for rental of apparatus, per session	1	0	0
3.	By overseas students working in the department of textile industries, for equipment and apparatus, per session	15	0	0
4.	By students working in the department of colour chemistry and dyeing, for apparatus and materials,			
	in the second year	1	10	0
	in the third year	3	0	0
	in the fourth year	4	10	0
5.	By textile students taking practical classes in the department of colour chemistry and dyeing, for materials, payable at the beginning of the third and fourth years	1	0	0
6.	By students reading for the degree of Bachelor of Laws, for hire of books, per session	2	0	0
7.	By students working in the dental hospital for rental of a dental engine, in the third year	3	0	0
8.	By students in the Faculty of Medicine			
	(a) Reading for an initial Medical qualification,			
	Anatomy fee—1st year in department	2	5	0
	2nd year in department	1	10	0
	(b) Reading for an initial Dental qualification,			
	Anatomy fee—1st year in department	2	5	0
	(c) Reading for an initial medical qualification—hire of white coat for clinical studies, per year	1	5	0
	(an additional charge is payable in the event of a hired coat being lost or damaged.)			
9.	By students who have paid the inclusive academic fee for approved additional work in the laboratories during the vacation, per month	1	0	0
10.	By students in the Faculty of Technology for use of drawing board and T-square, of which 10s. is refunded if the equipment is returned promptly and in good order, per session	1	0	0

*A separate hire charge is payable for each of the departments in which a student hires a microscope.

£ s. d.
5 0

11. For locker rent, per session

(a) In faculties other than the Faculty of Medicine, a deposit of 10s., in addition to the rent of 5s., 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.

(b) 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 5s. 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.

(c) On the lower ground floor of University House, subject to the deposit and general conditions as stated in (a) above.

12. By students in certain departments in the Faculties of Science and Technology 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 departments.

FEES

TABLE 9

FEES FOR RESIDENCE

HALLS FOR MEN

	Terminal instalments			
	1st term	2nd term	3rd term	Total
	£	£	£	£
Devonshire, Woodsley and Lyddon Halls, inclusive of lunches	57	57	57	171
Sadler Hall, exclusive of lunches				
Monday to Friday	51.6.0	52	52	155.6.0

Where the total fee, as stated above, is paid in one sum at the beginning of the first term and not in terminal instalments the total fee will be reduced by £1.

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 at the rate of £5 a week.

For residence in *Croft Hall*, see p. 259.

HALLS FOR WOMEN

	Terminal instalments			
	1st term	2nd term	3rd term	Total
	£	£	£	£
Ellerslie Hall				
Single study-bedroom	54	53	53	160
Shared study-bedroom (inclusive of lunches)	52	51	51	154
Oxley, Weetwood, Tetley and Lupton Halls				
Single study-bedroom	48.6.0	48	48	144.6.0
Shared study-bedroom (exclusive of lunches Monday to Friday)	46.6.0	46	46	138.6.0

Where the total fee, as stated above, is paid in one sum at the beginning of the first term—and not in terminal instalments—the total fee will be reduced by £1.

Where permission is granted to a student who has already paid a full session's fee to be in residence for a further period additional to the normal terms, the charge will be at the rate of £4 15s. a week.

A deposit of £1 (£2 10s. for Ellerslie Hall) will be payable at the beginning of each session by students in women's halls 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.

FEES

APPROVED LODGINGS FOR MEN

	1st term	2nd term	3rd term	Total
	£	£	£	£
Amount payable by instalments only, exclusive of lunches Monday to Friday during the session	36 to 46	33 to 45	36 to 46	135

APPROVED LODGINGS FOR WOMEN

	1st term	2nd term	3rd term	Total
	£	£	£	£
Amount payable by instalments only, exclusive of lunches Monday to Friday during the session	42.11.0	38.11.0	42.11.0	123.13.0

For residence in *Croft Hall*, see p. 259.

THE FACULTY OF ARTS

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.)
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 examinations.

3. Candidates may proceed to the degree of Bachelor of Arts by means of courses in general studies or in combined studies or in special studies.

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, and thereafter to have pursued approved courses of study for not less than three academic years.

5. With the permission of the Board of the Faculties of Arts, Economic and Social Studies and Law, a candidate may transfer between courses leading to the degree of Bachelor of Arts in general studies, combined studies and special studies.†

6. 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 courses of study approved by the University 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.

*Subject to the approval of the Court.

†Such a transference may necessitate the extension of the candidate's scheme of study by one year.

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, while remaining under the direction of the University or of persons nominated by the University, subject to candidates' in all cases spending in the University not less than one academic year or its equivalent as determined by the Senate.

52. When laboratory work is not required for the subject of the thesis, the normal requirement of two calendar years of full-time study and research may, at the discretion of the Senate, be waived in the case of persons admitted under article 50 (a). Such candidates will be required to pursue a part-time course of advanced study and research in the University for a minimum period of three calendar years. Frequent personal contact between the supervisor and the candidate to the satisfaction of the relevant committee will be required during the period.

[Candidates who wish to avail themselves of the provisions of article 52 should normally have previously obtained a Master's degree of the University of Leeds or of some other approved university by the presentation of a thesis or dissertation. Only candidates with high qualifications who are recommended by the head of the department concerned will be accepted under article 52.]

[See also the regulations on page 289.]

THE DEGREE OF DOCTOR OF LETTERS

53. 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.

54. 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.

55. 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 290.]

THE DEGREE OF DOCTOR OF DIVINITY

56. 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.

57. 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.

58. 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 290.]

THE DEGREE OF DOCTOR OF MUSIC

59. 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 consider-

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 matriculated 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, on the recommendation of the Board of the Faculties of Arts, Economic and Social Studies and Law, may require.

47. 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.

48. 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 years.

49. 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 DOCTOR OF PHILOSOPHY

50. The degree of Doctor of Philosophy may be conferred, on payment of the appropriate fee and subject to the conditions in articles 51 and 52 :

- (a) On persons who are registered graduates of the University of Leeds or graduates of an approved university ;
- (b) On the holder of a diploma awarded by an approved institution of university rank not empowered to confer degrees, provided that the course of study in the subject for which the diploma has been awarded has extended over not less than three years of full-time study ;
- (c) In exceptional cases 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.

51. Except as provided in article 52 all candidates for the degree of Doctor of Philosophy are required to pursue in the University for at least two calendar years an approved full-time course of advanced study and research under the direction of the head of the department concerned or of a member of the University staff appointed by the Senate on his recommendation; provided that

42. Such candidates may proceed to the degree of Master of Arts either (a) by passing an examination on a course of study approved by the Board of the Faculties of Arts, Economic and Social Studies and Law, or (b) on the recommendation of the Board of the Faculties of Arts, Economic and Social Studies and Law, by presenting a dissertation satisfactory to the Senate on a subject the title of which has already been approved by the Board of the Faculties of Arts, Economic and Social Studies and Law, provided:

- (i) that at the end of the first year of their course of study they have given evidence to the Senate that their work has been satisfactory, and
- (ii) that at the end of the second year of their course of study, they have passed a general examination in the subject of their study, or in the case of candidates proceeding to the degree by dissertation, in the subject within which their dissertation is presented.

At the end of their course of study candidates proceeding to the degree by means of a dissertation shall present themselves for oral examination in the subject of their dissertation and satisfy such further test as the Senate may deem expedient.

All candidates

43. 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 concerned with the subject they propose to study. The latest date of entry and payment of fee for all candidates for the degree of Master of Arts examination in June is 30th January. Candidates proceeding by dissertation must send in their dissertations not later than 1st May. Candidates who present a dissertation should provide at least two copies of it.]

[See also the regulations on page 286.]

THE DEGREE OF MASTER OF EDUCATION

44. 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.

45. 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.

46. Applicants for admission under the preceding paragraph and 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

37. Candidates admitted under the provisions of article 36 shall be required to fulfil the following conditions:

- (a) To be registered as students of the University.
- (b) To pursue a course of advanced study or research extending over not less than two years under the supervision of the head of the department concerned.
- (c) To attend such courses of lectures 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.

38. Such candidates may, at the end of their course of study, proceed to the degree of Master of Arts either (a) by presenting a dissertation satisfactory to the Senate upon a subject approved by the Board of the Faculties of Arts, Economic and Social Studies and Law, or (b) in special cases by passing an examination upon the subjects included in their course of study, provided

- (i) that candidates who have graduated with Honours, or who have passed the final examination for a degree with Honours, shall further be required at the end of the first year of their course of study to give evidence to the Senate that their work has been satisfactory, and
- (ii) that candidates who have obtained an ordinary degree, or who have passed the final examination for an ordinary degree, shall further be required at the end of the first year of their course of study to pass a qualifying examination in a subject upon which instruction is given in the Faculty of Arts; and shall not be permitted to proceed with the course until they have passed that examination.

Candidates who present a dissertation shall be required to present themselves for an oral examination in the subject of their dissertation and to satisfy such further test as the Senate may deem expedient.

Persons who are not graduates

39. In exceptional circumstances, persons who are not graduates, or who have not passed the final examination for a degree of an approved university, may, if they satisfy the Senate that their educational attainments are adequate and that they are qualified to pursue a course of advanced study or research, be permitted to enter the University and to become candidates for the degree of Master of Arts, after not less than three years of such advanced study or research.

40. Candidates applying for admission under the provisions of the preceding paragraph shall present themselves for an examination—written and, if necessary, oral.

41. Candidates will be admitted under the provisions of articles 39 and 40 above only if they have obtained a satisfactory result in the examination prescribed in article 40; and they will then be required to fulfil the following conditions:

- (a) To be registered as matriculated students of the University.
- (b) To pursue an approved course of study under the supervision of the head of the department concerned.
- (c) To attend such courses of lectures 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.

31. Bachelors of Arts who have shown outstanding merit in the examinations for the ordinary degree may, on the special recommendation of the Board of the Faculties of Arts, Economic and Social Studies and Law, be permitted to proceed to the degree of Master of Arts after not less than one year from the date of their graduation as Bachelors either (a) by presenting a dissertation satisfactory to the Senate on a subject approved by the Board of the Faculties of Arts, Economic and Social Studies and Law, or (b) in special cases by examination on a course of study approved by the Board of the Faculties of Arts, Economic and Social Studies and Law ; provided that graduates who wish to proceed to the degree in a subject which they have not studied as a substantial part of the course for their first degree may be required, before beginning their work, to reach a satisfactory standard in a preliminary examination in that subject.

32. Graduates of the University other than Bachelors of Arts may become candidates for the degree of Master of Arts under the conditions laid down in article 30 for Bachelors of Arts who have obtained the ordinary degree, provided that they attend for not less than two years such courses of lectures as the Board of the Faculties of Arts, Economic and Social Studies and Law may require.

33. Any person who has qualified for the degree of Master of Arts in one subject and proceeded to the degree and has subsequently fulfilled to the satisfaction of the Senate the regulations for the degree of Master of Arts in another subject, shall be entitled to have a statement to that effect endorsed on his certificate of graduation as Master of Arts.

34. All candidates who offer a dissertation either as a sole test or in combination with other tests shall be required to present themselves for an oral examination in the subject of their dissertation and to satisfy such further test as the Senate may deem expedient.

35. Certificates of attendance on courses of study in the University shall not be required in the case of Bachelor of Arts graduates of the University (Honours or ordinary).

Graduates of other universities

36. Graduates or persons who have passed the final examination for a degree of another approved university and who desire to become candidates for the degree of Master of Arts may be required to present themselves for a preliminary examination before being accepted; this examination will be required in every case where graduates wish to proceed to the degree in a subject which they have not studied as a substantial part of the course for their first degree. Applicants who present evidence satisfactory to the Senate that they are qualified to pursue a course of advanced study and research, may be permitted to enter the University and, after not less than two years of such advanced study or research, to present themselves for examination for the degree of Master of Arts.

BACHELOR OF MUSIC

27. 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.

[See also the regulations on page 286.]

THE DEGREE OF MASTER OF ARTS

Graduates of the University

28. The degree of Master of Arts may be conferred, on payment of the proper fee, upon registered Bachelors of Arts, subject to the conditions contained in the following paragraphs.

29. Bachelors of Arts who have graduated with Honours, including those who have graduated with Honours in general studies, and Bachelors of Music* who are of not less than one year's standing may proceed to the degree of Master of Arts either (a) by presenting a dissertation satisfactory to the Senate on a subject approved by the Board of the Faculties of Arts, Economic and Social Studies and Law, or (b) in special cases by examination on a course of study approved by the Board of the Faculties of Arts, Economic and Social Studies and Law; provided that graduates who wish to proceed to the degree of Master of Arts in a subject which they have not studied as a substantial part of the course for their first degree may be required, before beginning their work, to reach a satisfactory standard in a preliminary examination in that subject.

30. Bachelors of Arts who have obtained the ordinary degree or the degree in general studies or the degree in special studies and are of not less than two years' standing may proceed to the degree of Master of Arts either (a) by presenting a dissertation satisfactory to the Senate on a subject approved by the Board of the Faculties of Arts, Economic and Social Studies and Law, or (b) in special cases by examination on a course of study approved by the Board of the Faculties of Arts, Economic and Social Studies and Law; provided that graduates who wish to proceed to the degree in a subject which they have not studied as a substantial part of the course for their first degree may be required before beginning their work, to reach a satisfactory standard in a preliminary examination in that subject.

Candidates accepted under article 30 shall normally be required to pass a qualifying examination in a subject upon which instruction is given in the Faculty of Arts not less than one year after the date of their acceptance, provided (a) that in special cases it shall be in the power of the Senate, on the application of the candidate and on the special recommendation of the Board of the Faculties of Arts, Economic and Social Studies and Law, to waive the qualifying examination, and (b) that it shall be in the power of the Senate to permit a candidate proceeding by dissertation to take the qualifying examination concurrently with the presentation of the dissertation.

*This applies only to graduates who have taken the degree of Bachelor of Music as a first degree.

21. 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 Board of the Faculties of Arts, Economic and Social Studies and Law, 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

22. 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 years such courses of lectures 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;
- (c) after passing the Bachelor of Divinity qualifying examination;
- (d) after presenting, not less than one year after passing the Bachelor of Divinity qualifying examination, a thesis satisfactory to the Senate upon a subject approved by the Board of the Faculties of Arts, Economic and Social Studies and Law. 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 page 285.]

THE DEGREE OF BACHELOR OF MUSIC
(A postgraduate qualification)

23. The degree of Bachelor of Music shall be conferred upon candidates who have attended satisfactorily the required courses and have passed the prescribed examinations.

24. Graduates of the University of Leeds who have attained Honours in the special studies course in music, or who, having read music for three years in the general studies course, are deemed eligible by the head of the department of music, may become candidates for the degree of Bachelor of Music.

25. 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.

26. 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.

*See page 285

BACHELOR OF ARTS

THE DEGREE OF BACHELOR OF ARTS IN SPECIAL STUDIES

18. A candidate for the degree of Bachelor of Arts in special studies shall be required to attend approved courses of study extending over not less than three academic years in one of the schools of special studies hereafter enumerated.

19. Candidates for the degree of Bachelor of Arts in special studies may present themselves for examination in any one of the following schools of special studies :

- Greek language and literature
- Latin language and literature
- Classics
- Latin with Greek
- Semitic languages and literatures
- English
- French language and literature
- French and Latin languages and literatures
- Spanish language and literature
- Italian language and literature
- German language and literature
- Russian language and literature
- Modern languages and literatures
- History
- Philosophy
- Geography
- Theology
- Biblical studies
- *Psychology
- Music
- Economics
- Economics with statistics
- Political studies
- Sociology
- Mathematics
- Textile design
- Textile management

[See also the regulations on page 284.]

THE DEGREE OF BACHELOR OF DIVINITY

(A postgraduate qualification)

Graduates of the University

20. 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.

* In abeyance.

12. Candidates for the degree of Bachelor of Arts in general studies shall in the second and third years of the scheme of study be required

(a) to attend an approved two-year course in each of *three* subjects chosen from among those taken in the first year, and

(b) to pass the prescribed examinations.

13. Candidates shall select their subjects in accordance with the regulations for the degree of Bachelor of Arts in general studies (see pages 282-4).

THE DEGREE OF BACHELOR OF ARTS IN COMBINED STUDIES*

14. Candidates for the degree of Bachelor of Arts in combined studies shall in the first year of the scheme of study be required

(a) to attend an approved one-year course in each of *four* subjects, and

(b) to pass the prescribed examinations.

(These requirements are identical with those laid down in article 11 above.)

15. Candidates shall select their subjects in the first year of the scheme of study in accordance with the regulations for the degree of Bachelor of Arts in combined studies (see pages 282-4).

16. Candidates for the degree of Bachelor of Arts in combined studies will be admitted to a school of combined studies only if both subjects of the school have been included among the four subjects taken in the first year and only with the consent of the heads of both departments concerned; thereafter candidates shall be required to attend, in the second and third years of the scheme of study for the school, an approved two-year course in each of *two* subjects and to pass the prescribed examinations.

17. Candidates for the degree of Bachelor of Arts in combined studies may present themselves for examination in any one of the following schools of combined studies†:

- Anthropology and geography
- Economic history and geography
- Economics and politics
- Economics and sociology
- Fine art and philosophy
- Geography and history
- Geography and politics
- Geography and sociology
- Mathematics and philosophy
- Philosophy and English literature
- Philosophy and subsidiary French
- Philosophy and history
- Philosophy and politics
- Psychology and sociology
- Sociology and philosophy

*Subject to the approval of the Court.

†Additional schools of combined studies may be added to this list from time to time.

7. (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 in combined or in special studies shall be published in such form as to distinguish the school of combined or special studies in which each has passed.

8. A candidate who has been awarded the degree of Bachelor of Arts in general, combined or special studies may not present himself a second time for the same examination.

9. A candidate who has completed the courses and passed the final examination prescribed for the degree of Bachelor of Arts in general studies may, with the permission of the Senate given on the recommendation of the Board of the Faculties of Arts, Economic and Social Studies and Law, present himself for the examination for the degree of Bachelor of Arts in any school of combined or special studies after the expiration of one year or not more than two years, if during this period he has attended approved courses of study.

10. A candidate who has passed the final examination for the degree of Bachelor of Arts in any of the schools of combined or special studies may, with the permission of the Senate given on the recommendation of the Board of the Faculties of Arts, Economic and Social Studies and Law, present himself for the examination for the degree of Bachelor of Arts in any other school of combined or special studies or for the final examination for the degree in general studies, after the expiration of one year or not more than two years, if during this period he has attended approved courses of study.

[See also the regulations on pages 282 & 284.]

THE DEGREE OF BACHELOR OF ARTS IN GENERAL STUDIES*

11. Candidates for the degree of Bachelor of Arts in general studies shall in the first year of the scheme of study be required

- (a) to attend an approved one-year course of study in each of *four* subjects, and
 - (b) to pass the prescribed examinations.
- (These requirements are identical with those laid down in article 14 overleaf.)

*Subject to the approval of the Court.

ing 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.

60. 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 page 291.]

DIPLOMAS AND CERTIFICATES

61. 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.

62. The Council is empowered to make from time to time regulations under which such diplomas and certificates shall be awarded.

63. The award of diplomas and certificates under the provisions of this ordinance is delegated to the Senate.

[See also the regulations on page 292.]

REGULATIONS FOR DEGREES

THE DEGREE OF BACHELOR OF ARTS

1. Candidates will not be admitted to courses of study for the degree of Bachelor of Arts unless they have satisfied the examination requirements for entry upon degree courses as determined by the Joint Matriculation Board.
2. All intending candidates must comply with any special requirements laid down in relation to the subjects they propose to study; for some of these a previous knowledge of certain subjects is required.
3. Candidates for the degree of Bachelor of Arts must present themselves for the departmental examinations arranged in connection with any courses they may take.
4. Candidates will not be permitted to present themselves for examination in any subject unless they have regularly attended the prescribed course of study and performed the work of the class to the satisfaction of the professor or lecturer.
5. Each examination in a modern foreign language will include an oral examination.

THE DEGREE OF BACHELOR OF ARTS IN GENERAL STUDIES* AND

THE DEGREE OF BACHELOR OF ARTS IN COMBINED STUDIES*

6. The subjects in which one-year courses of study are approved for the degrees of Bachelor of Arts in general studies and of Bachelor of Arts in combined studies are:

†§ Anthropology	Latin
† Arabic	Mathematics
† Biblical studies	Music
† Economics	† Philosophy
English	† Philosophy and history of religion
† Fine art	† Philosophy and history of science
French	† Phonetics
Geography	† Politics
German	† Portuguese
Greek	† Psychology
† Hebrew	† Russian
History	† Sociology
† Icelandic	† Spanish
† Industrial relations	Statistics
† Italian	

7. Candidates for the degrees of Bachelor of Arts in general studies and of Bachelor of Arts in combined studies in the first year of the scheme of study will be allowed to select, subject to the approval of the heads of the departments concerned, any four of the subjects listed in regulation 6, provided

*Subject to the Court approving the necessary amendment of the Ordinance.

†May be taken without previous study of the subject.

‡May be taken for one year only.

§Available in session 1960-61 only.

- (a) that the combination of subjects is approved by the Deans, or by the Sub-Dean or by the Tutor of Women Students acting on their behalf;
- (b) that not more than one subject may be chosen from each of the following pairs

	Hebrew	—	Arabic
	Philosophy	—	Philosophy and history of science
Philosophy and history	—	Biblical studies	
	of religion		
	Economics	—	Industrial relations
	Sociology	—	Anthropology

- (c) that not more than two modern foreign languages may be taken;
- (d) that candidates taking two modern foreign languages must, before entering upon the course of study, have reached in one of those two languages a satisfactory standard in the advanced level examination of the General Certificate of Education or have received instruction regarded as equivalent by the head of the department concerned; and
- (e) that the candidates taking statistics must, before entering upon the course of study, have reached the standard of a pass in the advanced level examination of the General Certificate of Education in pure mathematics.

8. Candidates for the degree of Bachelor of Arts in general studies shall take in the second and third years of the scheme of study one of the following five groups of subjects:

- (i) English, history and one other subject
- (ii) English, a language other than English, and one other subject
- (iii) Geography, history and one other subject
- (iv) Two languages other than English, and one other subject
- (v) English, geography and one other subject

provided

- (a) that one-year courses in all three subjects were taken in the first year of the scheme of study, and the prescribed examinations passed; and
- (b) that Greek and Latin may not be taken together.

The third subject referred to in each of the five groups above shall be selected from the following list:

Arabic	Italian
Biblical studies	Latin
English	Mathematics
Fine art	Philosophy
French	Philosophy and history of religion
German	Philosophy and history of science
Greek	Portuguese
Hebrew	Russian
History of religion*	Spanish
Icelandic	

*Must be preceded by the first-year course in Philosophy and history of religion.

9. Any course extending over one year for the degree of Bachelor of Arts in special studies may, with the approval of the Board of the Faculties of Arts, Economic and Social Studies and Law, be accepted as a one-year course for the degree of Bachelor of Arts in general studies or in combined studies.

10. The examinations will ordinarily be held in June of each year. Supplementary examinations on one-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 examinations is 29 January.

11. Except with the special permission of the Board of the Faculties of Arts, Economic and Social Studies and Law, candidates must have passed at the end of their first year of study the examination in the four subjects of the first year of the course in order to be permitted to proceed to the second year of the course either in general studies or in combined studies. In cases where permission is granted, a candidate taking a first-year course in a subject in the second year of study must pass the examination in this subject

- (a) In June, if it is a subject in which he 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.

Only with the special permission of the Senate will a candidate be permitted to present himself for examination on a first-year course in the third year of study, or in September of the second year of study if the subject is one in which he failed in the previous session.

12. Each candidate will be placed under the supervision of a tutor. Candidates are required to consult with their tutors at the beginning and end of each term.

THE DEGREE OF BACHELOR OF ARTS IN SPECIAL STUDIES*

13. In schools of special studies for which a qualifying examination at the end of the first year of study is prescribed, such examinations will ordinarily be held in June of each year; but a candidate who does not pass in all the required subjects of a qualifying examination may be admitted to supplementary examinations held in September in the subject or subjects in which he has failed. Except with the special permission of the Senate, no candidate will be accepted for a September examination unless (a) he has presented himself for the corresponding examination in the preceding June and (b) he has attained an appropriate standard in the June examinations as a whole.

14. 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.

15. The final examinations will ordinarily be held in June of each year. The last date for entry for examination is 29 January.

[See also the prescribed schemes of study on pages 299 and fol.]

*Subject to the Court approving the necessary amendment of the Ordinance.

THE DEGREE OF BACHELOR OF DIVINITY

(A postgraduate qualification)

Graduates of the University

16. 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) *or*

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 special studies 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 special studies in theology.

17. 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

18. 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.

19. Candidates for the qualifying examination [Regulation 16 above] will be excused those subjects or parts of subjects in which they have passed the equivalent in their degree.

All candidates

20. 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 date for entry for examinations in June is 29 January.

THE DEGREE OF BACHELOR OF MUSIC

(A postgraduate qualification)

21. Candidates for the degree of Bachelor of Music must pursue courses of study and submit themselves for examination.

22. 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.

23. This examination will ordinarily be held in June.

24. 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

25. Subject to the provisions of articles 28 to 43 of ordinance II candidates for the degree of Master of Arts who are permitted to proceed to the degree by examination must present themselves for examination in one of the following subjects*:

Greek, Latin, Semitic languages and literatures, theology, English, French, German, Italian, Russian, Spanish, history, geography, philosophy, economics, sociology, politics, psychology, music, mathematics.

26. The preliminary examination for graduates who apply to be accepted under the provisions of article 29 or article 36 of the ordinance and who

*Examination syllabuses are given on page 336.

wish to proceed to the degree of Master of Arts in a subject which they have not studied as a substantial part of the course for their first degree will consist of not less than two written papers and an oral examination. To pass the examination a candidate must reach a standard equal to that at which Honours are awarded in the examinations for the degree of Bachelor of Arts.

27. Persons who are not graduates and who apply to become candidates for the degree under the provisions of articles 39 to 42 must:

(a) Present themselves for interview by a committee of the Board of the Faculties of Arts, Economic and Social Studies and Law 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 Board

(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 year of their course on at least two days a week for a total of not less than six hours a week; and in subsequent years on at least two days a week for a total of not less than four hours a week if preparing a thesis, or a total of not less than six hours a week if proceeding to the degree by examination. In special cases the above attendance requirements may be modified by the Board on the recommendation of the standing committee concerned.

28. Graduates or persons who have passed the final examination for a degree of another university, and who are accepted as candidates for the degree under the provisions of articles 36 to 38, whether by thesis or examination, must attend in the University in the first and second years of study for frequent consultation with the head of the department or the supervisor to the satisfaction of the Board of the Faculties of Arts, Economic and Social Studies and Law.

29. The qualifying examination for candidates accepted under articles 30 and 36 will consist of not less than two written papers and may also include an oral examination.

30. Candidates presenting a dissertation must present themselves for an oral examination in the subject of their dissertation and satisfy such further test as the Senate may deem expedient.

31. 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 the 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.

THE DEGREE OF MASTER OF EDUCATION

32. All candidates must undertake studies in education which shall include:
- (a) Theory of education and educational psychology, 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) Statistical methods applied to education.

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.

33. 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 submit themselves for examination on the subjects of their study. Each examination 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 Board of the Faculties of Arts, Economic and Social Studies and Law, 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.

34. Persons who are not graduates and who apply to become candidates for the degree must:

- (a) present themselves for interview by a standing committee of the Board of the Faculties of Arts, Economic and Social Studies and Law 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 Board
 - (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.

35. 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.

THE DEGREE OF DOCTOR OF PHILOSOPHY

36. Before entering on the course of advanced study and research, candidates must:

- (a) Submit to the Senate for its approval the course of advanced study and research proposed by them and present evidence satisfactory to the Senate that they are qualified to undertake the proposed course.
- (b) Register as students of the University and pay the prescribed fees for tuition.

37. On completing the course of advanced study and research candidates must:

- (a) Present a thesis on the subject of their 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) Submit themselves for an oral examination, except in the case of mathematics, on matters relevant to their thesis and, if required, for a written examination and satisfy the examiners in the examination as well as in the thesis presented.

38. 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 should 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.

39. 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.

40. A candidate must not submit as his thesis one for which a degree has been conferred upon him in the University of Leeds or in any other university; but he will 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 to the University

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for admission to the course he states his desire to do so, and in the thesis itself indicates the part of the work which has been so incorporated.

41. 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. The course must in any case extend over at least two calendar years.

42. 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 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.

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 DEGREE OF DOCTOR OF LETTERS

43. 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.

44. 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

45. 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.

46. 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

DOCTOR OF DIVINITY

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

47. 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.

48. 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

49. 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.

50. At the close of the course candidates must present themselves for such examination in the main subject of study as may be prescribed.

51. 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:

- The diploma in Hebrew
- The certificate in the teaching of Hebrew
 - Arabic
 - the teaching of Arabic
- The diploma in Spanish
- The certificate in Russian
- The diploma in theology
- The postgraduate diploma in English studies
- The history and philosophy of science
- The graduate certificate in education
 - educational studies.

Detailed regulations governing courses of study and examination requirements for the postgraduate diploma in social studies will be found on page 389, and for the remainder of the above qualifications on page 341 and fol.

Courses are also provided for the following diplomas of the University of Leeds Institute of Education:

- The diploma in
 - primary education
 - secondary education
 - the education of backward children
 - religious education
 - physical education

Particulars and regulations will be found in the *Handbook* of the Institute of Education.

REGULATIONS PRESCRIBING SCHEMES OF STUDY FOR THE DEGREE OF BACHELOR OF ARTS IN COMBINED STUDIES

FINE ART AND PHILOSOPHY

For the degree of Bachelor of Arts in combined studies in fine art and philosophy:

The scheme of study for the first academic year shall normally be the same as that of students reading for the degree of Bachelor of Arts in general studies provided that it includes philosophy and fine art among the first-year 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. Subject to the approval of the Board of the Faculties of Arts, Economic and Social Studies and Law, suitably qualified candidates may be permitted to vary the course of study required for the first year.

During the second and third years candidates shall be required to attend approved courses in philosophy and fine art and to submit written work as directed.

The final examination at the end of the third year will consist of eight papers, as follows:

1. Logic and general philosophy
2. The history of *either* ancient and mediæval *or* modern philosophy
3. Political and social philosophy *or* ethics
4. Aesthetics (including the history of theories of art from Alberti onwards)
5. A special subject to be chosen with the approval of the heads of the departments of philosophy and fine art
6. History of art 1400-1600 *or* history of mediæval art*
7. History of art 1600-1700
8. History of art 1760 to the present day.

In addition candidates must present themselves for an oral examination.

GEOGRAPHY AND HISTORY

The final examination for the degree in geography and history will consist of nine papers; *either* four geography and five history *or* four history and five geography.

Geography

1. Human geography
2. Physical geography
3. Historical geography of Europe (including the British Isles)
4. Regional geography (British Isles or one major world area)

* Normally students who chose the second option under 6 will be expected to choose the first option under 2.

5. *One* of the following:

- Urban geography
- Development of geographic thought
- Problems of the geography of population
- Problems of economic geography
- Problems of political geography
- Regional geography: one major world area

Candidates, if they are taking four geography papers, will offer numbers 1, 2, 3 and 4; *or* if they are taking five geography papers, numbers 1, 2, 3, 4 and 5.

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.

History

Four or five papers selected from the following, choosing at least one from each group.

A. *One* or *two* of the following:

1. The history of Britain from the earliest times to 1399
2. The history of Britain from 1399 to 1688
3. The history of Britain from 1688.

B. *One* or *two* of the following:

1. The development of medieval government
2. The church in the later Middle Ages
3. The history of Europe 1648-1789
4. France and Europe, 1789-1870

C. *One* or *two* of the following:

1. World economic development
2. The history and archaeology of Roman Britain
3. Social and economic development of the North of England
4. History of the United States of America from 1783.

GEOGRAPHY AND POLITICS

The final examination for the degree in geography and politics will consist of nine papers as follows:

- Human geography
 - Physical geography
 - Regional geography
 - Political geography
 - Politics 1
 - Politics 2
 - Political and social theory
 - The government of a special area
- together with *one* of the following:
- Geography of planning
 - Urban geography
 - International relations
 - Political sociology

GEOGRAPHY AND POLITICS

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.

GEOGRAPHY AND SOCIOLOGY

The final examination in geography and sociology will consist of nine papers as follows:

- Human geography
- Physical geography
- Regional geography*
- Sociological theory
- Social institutions

The social structure of modern Britain
together with *three* papers selected from the following:

- Problems of the geography of population
- The geography of planning
- The development of geographical thought
- Urban geography
- Demography
- Social statistics
- Social medicine
- Urban sociology

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.

MATHEMATICS AND PHILOSOPHY

Candidates must attend approved courses in mathematics and philosophy, submit written work as directed, and pass such qualifying examinations as may be required by the two departments.

The final examination will consist of nine papers as follows:

1. Logic and metaphysics
2. History of *either* ancient and mediaeval *or* modern philosophy
3. Philosophy of science *or* history of mathematics
4. Logical theory
5. Mathematical logic
6. An approved special subject in mathematics *or* philosophy
7. Pure mathematics
8. Applied mathematics
9. A further approved mathematical paper.

In addition candidates must present themselves for an oral examination.

*Students reading for this degree will normally study the geography of the British Isles

PHILOSOPHY AND ENGLISH LITERATURE

For the degree of Bachelor of Arts in combined studies in philosophy and English literature:

The scheme of study for the first academic year shall normally be the same as that for the degree of Bachelor of Arts in general studies or for the degree of Bachelor of Arts in special studies in English, provided in each case that it includes philosophy and English. Candidates with other combinations of subjects may be admitted to the course, subject to the approval of the Board of the Faculties of Arts, Economic and Social Studies and Law. A qualifying examination in the subjects of their course which must normally be passed by candidates before they proceed to further study will be held at the end of the first year.

During the second and third years candidates shall be required to attend approved courses in philosophy and English literature and to submit written work as directed.

The final examination at the end of the third year will consist of eight papers as follows:

1. Philosophical essay
2. Logic and metaphysics
3. Ethics
4. The history of ideas, in its relation to English literature
5. Critical theory, with reference to selected texts
- 6, 7. Two approved papers from among those prescribed in scheme C for the final special studies examination in English
8. A special subject, to be chosen with the approval of the heads of the departments of philosophy and English literature.

In addition candidates shall be required to present themselves for an oral examination.

PHILOSOPHY AND SUBSIDIARY FRENCH

The scheme of study for the first academic year will normally be the same as that for the degree of Bachelor of Arts in general studies, provided that it includes philosophy and French. 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. Subject to the approval of the Board of the Faculties of Arts, Economic and Social Studies and Law, suitably qualified candidates may be permitted to vary the course of study required for the first year.

During the second and third years candidates must attend approved courses in philosophy and those courses in French prescribed for general studies. They must submit written work as directed and pass such qualifying examinations as may be prescribed. Candidates will be required to spend a period of at least one month in France or some other French-speaking country during the long vacation of their first or second year, this period to include attendance at an approved course of study.

PHILOSOPHY AND SUBSIDIARY FRENCH

The final examination at the end of the third year will include nine papers, as follows:

1. Essay
2. Logic and metaphysics
3. The history of *either* ancient and mediaeval *or* modern philosophy
4. Ethics or political philosophy
5. A philosophical special subject chosen with the approval of the heads of the departments of philosophy and French
- 6—9. Four papers in French.

In addition candidates shall be required to present themselves for oral examinations in philosophy and French.

PHILOSOPHY AND HISTORY

For the degree of Bachelor of Arts in combined studies in philosophy with history:

The scheme of study for the first academic year shall normally be the same as that for the degree of Bachelor of Arts in general studies or for the degree of Bachelor of Arts in special studies in history, provided in each case that it includes philosophy and history. 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. Subject to the approval of the Board of the Faculties of Arts, Economic and Social Studies and Law, suitably qualified candidates may be permitted to vary the course of study required for the first year.

During the second and third years candidates must attend approved courses in philosophy and history and submit written work as directed.

The final examination at the end of the third year will consist of nine papers:

1. Logic and metaphysics
2. General philosophy
3. Ethics
4. The history of *either* ancient and medieval *or* modern philosophy
5. The history of political or scientific thought
6. Philosophy of history
- 7—8—9. Three papers chosen, with the approval of the head of the department, from among the options prescribed in items 1, 2 and 3 of the final special studies examination in history.

In addition candidates must present themselves for an oral examination.

PHILOSOPHY AND POLITICS

For the degree of Bachelor of Arts in combined studies in philosophy and politics:

The scheme of study for the first year shall normally be the same as that for the degree of Bachelor of Arts in general studies or for the degree of Bachelor of Arts in special studies in sociology, provided in each case that it

includes philosophy and politics. A qualifying examination in four subjects, which must be passed by candidates before they proceed to further study, will be held at the end of the first year. Subject to the approval of the Board of the Faculties of Arts, Economic and Social Studies and Law, suitably qualified candidates may be permitted to vary the scheme of study required for the first year.

During the second and third years candidates shall be required to attend approved courses in philosophy and politics and to submit written work as directed.

The final examination at the end of the third year will consist of ten papers as follows:

1. Political and social philosophy
2. Contemporary political thought
3. Politics 1
4. Politics 2
5. The government of a special area or areas
6. English history from 1815
7. Ethics
8. Logic and general philosophy
9. The history of *either* ancient and medieval *or* modern philosophy
10. A special subject to be chosen with the approval of the heads of the departments of philosophy and social studies.

PSYCHOLOGY AND SOCIOLOGY

The final examination in psychology and sociology will consist of ten papers as follows:

Sociology—3 papers

Psychology—3 papers

Social psychology—1 paper

together with three papers chosen from the following:

The social structure of modern

Britain

Criminology

Demography

Social medicine

Sociology of religion

Memory and learning

Language and thinking

Personality and human development

Defect and abnormality

Philosophy and history of psychology

REGULATIONS PRESCRIBING SCHEMES OF STUDY FOR THE DEGREE OF BACHELOR OF ARTS IN SPECIAL STUDIES

GREEK

In addition to the entrance requirements of the Joint Matriculation Board, candidates for the degree of Bachelor of Arts in special studies in Greek *must* have attained in the examinations for the General Certificate of Education:

A pass of a high standard in Greek at advanced level

At least a pass in Latin at ordinary level

Candidates *should* have attained:

At least a pass in ancient history at advanced level

A pass in general studies at ordinary level

Some evidence of acquaintance with a modern language, preferably German

Some knowledge of mathematics.

The scheme of study will be:

1. The Greek books prescribed for special studies in classics (2 papers)
2. Translation from further Greek authors (1 paper)
3. General paper as for special studies in classics (1 paper)
4. Greek unprepared translation (1 paper)
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. *One* of the following special subjects (1 paper):
 - (a) History of Greek language
 - (b) Outlines of Greek philosophy
 - (c) The special study of an author or of *one* of the following types of literature: (i) Homeric poems (ii) Greek lyric poetry (iii) Greek drama in the 5th century (iv) Greek oratory, with special reference to Demosthenes
 - (d) Greek art and architecture
 - (e) Greek sculpture or vase painting or epigraphy
 - (f) Greek verse composition may be offered as an *optional* subject in the final examination.

Attendance in the subjects of the school shall be, during the first year not less than seven hours a week, during the second year not less than nine hours a week, and during the third year not less than seven hours a week.

Candidates other than those who have already completed the scheme for the degree in special studies 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 special studies in Latin to be specified from year to year.

SPECIAL REQUIREMENTS

1. Candidates are required to attend the one-year and the two-year courses in Latin as prescribed in the regulations for the degree of Bachelor of Arts in general studies and to pass the prescribed examinations in that subject.

2. Candidates are required to attend the 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.

GREEK AS A SUBSIDIARY SUBJECT

1. Candidates for the degree in special studies in the school of Latin are required to 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 to pass the appropriate examinations. The subjects for examination will be:

- (a) Translation from Greek into English
- (b) Translation from English into Greek
- (c) Prescribed Greek texts.

2. Candidates for the degree in special studies in schools other than Latin who offer Greek as a subsidiary subject will be required to attend such courses in Greek prescribed for the degree in general studies as may be appropriate, and to present themselves for examination at the end of the course.

3. Candidates for the degree in special studies in the school of biblical studies who offer Greek as a subject under the regulations of that school may, in appropriate cases, attend the course approved for candidates in the school of Latin (*see* 1 above) and take the corresponding examination.

LATIN

For the degree of Bachelor of Arts in special studies in Latin the scheme of study will be:

First year

- 1. Latin language and literature
- 2. Greek
- 3. Ancient history (the one-year course prescribed for the degree of Bachelor of Arts in general studies).

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 special studies in classics (2 papers)
- 2. Further Latin books (1 paper)
- 3. General paper as for special studies in classics (1 paper)
- 4. Latin unprepared translation (1 paper)
- 5. Latin prose composition (1 paper)

6. A period of Roman history studied in connection with the original authorities (1 paper)
7. Development of the Latin language (1 paper)
8. One of the following special subjects:
 - (a) Stoicism and Epicureanism in Roman life and thought
 - (b) Roman life and manners
 - (c) An approved subject in Latin literature
 - (d) Greek art and architecture
 - (e) History and archaeology of Roman Britain.

Candidates other than those who have already completed the scheme for the degree in special studies 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 special studies 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

1. 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 examinations.

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.

CLASSICS

For the degree of Bachelor of Arts in special studies in classics the scheme of study will be:

Translation from prescribed Greek and Latin books

Translation at sight from Greek and Latin authors

Greek and Latin composition

Greek and Latin literature

Two of the following:

Ancient history

Ancient philosophy

A special subject chosen from the special subjects prescribed for Greek or Latin special studies.

Candidates may offer either (alternative 1) Greek and Latin at special standard throughout the scheme of study, passing both at the same examination, normally at the end of the third year, or (alternative 2) Latin at special standard in the first three years, and Greek at general standard in the first year and at special standard in the second, third and fourth years, the examination in each case to be taken at the end of the third year of special study. 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 general studies 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 the school of special studies in classics.

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 (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 metre

General paper (Latin), including questions on Latin literary criticism, language and metre and on Roman antiquities

Two of the following:

Ancient history (1 paper)

Ancient philosophy (1 paper)

A special subject chosen from the special subjects prescribed for Greek or Latin special studies.

Greek verse composition may be offered as an *optional* subject in the final examination.

ALTERNATIVE 2

Attendance in the subjects of the school shall be during the first year not less than seven hours a week, during the second and third years not less than nine hours a week, and during the fourth year not less than eight hours a week.

The subjects of study and examination shall be:

in Latin—as for the school of special studies in Latin, except that (a) candidates must offer a certain number of Greek books under number 2 (Further Latin books); (b) candidates will be excused the subject numbered 7 (Development of the Latin language).

in Greek—as for the school of special studies in Greek, 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 8 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 general studies and to pass the prescribed examination in that subject.

(b) Candidates are required to attend the 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.

LATIN WITH GREEK

For the degree of Bachelor of Arts in special studies in Latin with Greek the scheme of study will be:

1. The Latin books prescribed for special studies in classics (2 papers)
2. Further Latin books, as prescribed for special studies in Latin (1 paper)
3. Greek books selected from those prescribed for special studies in classics (1 paper)
4. General questions on Greek and Latin language and literature (1 paper)
5. Latin unprepared translation (1 paper)
6. Greek unprepared translation (1 paper)
7. Latin prose composition (1 paper)
8. Greek prose composition (1 paper)
9. A period of Greek or Roman history studied in connection with the original authorities (1 paper)
10. A special subject chosen from those prescribed for the schools of special studies in Greek and in Latin (1 paper).

Attendance in the subjects of the school shall be during the first year not less than seven hours a week, during the second year ten hours a week, and during the third year not less than eight hours a week.

SPECIAL REQUIREMENTS

1. Candidates are required to attend the one-year course in Greek as prescribed in the regulations for the degree of Bachelor of Arts in general studies, and to pass the prescribed examination in that subject.

2. Candidates are required to attend the 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.

SEMITIC LANGUAGES AND LITERATURES

Candidates wishing to follow the scheme of special studies in Semitic languages and literatures who have not passed an approved examination in Hebrew may be required first to attend both first- and second-year courses for the diploma in Hebrew concurrently, and to pass a special examination at the end of the session.

Hebrew and Aramaic or Hebrew and Arabic are studied concurrently throughout the scheme of special studies, Aramaic or Arabic being the second main language.

For the degree of Bachelor of Arts in special studies in Semitic languages and literatures the scheme of study for the first academic year shall include the following four subjects:

Hebrew language and literature

Either eastern and western Aramaic or Arabic language and literature

Two other approved subjects.

A qualifying examination in all these subjects must be passed by candidates before they proceed to further study. Candidates may be required in any year to attend a course given in any department 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 for two further years a prescribed course in one of the approved subjects chosen for the first year. At the end of the third year, the candidate must present himself for examination in this subsidiary subject as for a two-year course in a subject for the degree of Bachelor of Arts in general studies.

Biblical history and archæology, critical introduction to the literature of the Old Testament and the growth of religious ideas and institutions in the Bible will be studied by the candidate when studying Hebrew language and literature. Likewise, the inter-testamental period and the New Testament background will be studied by the candidate in conjunction with post-biblical and rabbinic texts.

Candidates may be required to spend the first term of the third year at the Hebrew University, Jerusalem, or at such other university or institution in Israel as may be 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.] The cost of residence abroad is not included in the normal fee for an arts course.

FINAL EXAMINATION

The examination shall consist of the following papers:

Specified and unspecified texts of biblical Hebrew, with reference to critical introduction, etc. (2 papers)

Either specified and unspecified texts of Aramaic, including Syriac (2 papers) or specified and unspecified texts of Arabic (2 papers)

Specified and unspecified texts of mishnaic and medieval Hebrew (1 paper)

Comparative grammar of the Semitic languages, and questions on the special departmental subsidiary subject offered by the candidate in his third year (1 paper)

Specified and unspecified modern Hebrew texts:

Poetical texts and general literature questions (1 paper)

Prose texts and composition (1 paper).

In his final year, a student must offer a subsidiary subject within the Semitic school of special studies in addition to the main Hebrew and Aramaic or

Hebrew and Arabic courses and his third outside subject; the following options are available:

1. Advanced Syriac
2. Advanced medieval Hebrew
3. Advanced Arabic
4. Old Testament Greek and papyri
5. Palestinian archæology
6. Comparative Semitic philology and epigraphy.

Students who have read Arabic or Aramaic in their first year as one of their approved outside subjects chosen for the first year only will not be eligible to take that subject as their final year departmental subsidiary subject. Students intending to take Old Testament Greek and papyri as their departmental subsidiary subject in their final year, will normally take Greek 1 in their first year as one of their outside subjects. The choice of options indicated above will be subject to the approval of the head of the department.

ENGLISH

In addition to the entrance requirements of the Joint Matriculation Board, it is desirable that candidates for the degree of Bachelor of Arts in special studies in English should in the examinations for the General Certificate of Education have attained passes at advanced level in English, another language, either ancient or modern, and one other subject.

There will be alternative schemes of study:

- A. English language and literature
- B. English language and literature
- C. English literature.

Under these schemes the first academic year shall include Greek or Latin or a modern language; English literature; English language and medieval literature; any one 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; 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.

First year

See English S1A and S1B, pages 354 and 355.

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 the department of English literature:	
The novel or the drama	1
Period	1
Prose	1
Criticism	1

Poetry	I
Tutorial class	I
2. In the department of English language and medieval literature:	
Chaucer (in alternate years)	I
<i>either</i> (a1) Old English literature	I
Middle English literature	I
<i>or</i> (a2) Middle English literature	2
History of English	I
Tutorial class	I
Third year	
1. In the department of English literature:	
Shakespeare	I
The novel or the drama	I
Criticism	I
Poetry	I
Selected author (seminar class)	I
Tutorial class	I
2. In the department of English language and medieval literature:	
Chaucer (in alternate years)	I
<i>either</i> (a1) Old English literature	I
Middle English literature	2
<i>or</i> (a2) Middle English literature	I
History of English	I
Tutorial class	I

SCHEME B: ENGLISH LANGUAGE AND LITERATURE

In this scheme, the emphasis will be on philology and medieval literature.

During the second and third years, candidates will be required to attend the following courses:

1. In the department of English language and medieval literature:

- (a) Old English
- (b) Middle English
- (c) Chaucer and the fifteenth century
- (d) English philology
- (e) Any *two* of the following:

Gothic and Germanic philology, Old Icelandic, Modern Icelandic, English palaeography and bibliography, Anglo-Saxon art and archaeology, medieval Welsh, the structure of present-day English; English folk life, English dialectology [both normally examined by thesis]; phonetics [taken in the department of phonetics].

In place of one of the options mentioned in (e) above, candidates may elect to take, by arrangement with the head of the department concerned, Old Saxon and Old High German, Old French, Latin philology, Greek philology, or to take an additional language or philological course approved by the Board of the Faculties of Arts, Economic and Social Studies and Law, or to take an additional subject in the department of English literature, or to present a dissertation on an approved subject. Further, in place of one of the options mentioned in (e) above, candidates may be permitted, by arrangement with the head of the department of English literature, to take a second additional subject in that department.

Candidates who wish to take any one of the above-mentioned courses that are given outside the department of English language and medieval literature, or to present a dissertation, should inform the professor of English language and medieval literature not later than the beginning of their second academic year.

2. In the department of English literature:	Hours
(a) Two selected periods	I
(b) Shakespeare.	I

For the session 1960-1 the selected period will be 1702-27.

SCHEME C: ENGLISH LITERATURE

Candidates will be required to attend the following courses:

Second year

1. In the department of English literature:	
Milton	I
The novel or the drama	I
Period	I
Prose	I
Criticism	I
Poetry	I
General lecture	I
Practical drama	I
Tutorial class	I
2. In the department of English language and medieval literature:	
Middle English literature or, in alternate years, Chaucer	I

Third year

1. In the department of English literature:	
Shakespeare	I
The novel or the drama	I
Milton	I
Poetry	I
Criticism	I
Selected author (seminar class)	I
Tutorial class	I
2. In the department of English language and medieval literature:	
Chaucer or, in alternate years, Middle English literature	I

EXAMINATIONS

Schemes A and C

At the end of their second academic year candidates will sit for the examination for the degree in special studies in English, part I, and will take one paper on each of the following:

1. The period studied
2. Prose.

Candidates for Scheme C must also satisfy the examiners that they have attended and worked satisfactorily in

3. Practical drama

At the end of their third academic year candidates will sit for the examination for the degree in special studies in English, part 2, and will take one paper on each of the following:

Scheme A	Scheme C
1. Shakespeare	1. Shakespeare
2. The novel or the drama	2. The novel or the drama
3. Criticism	3. Criticism
4. Poetry	4. Poetry
5. Essay on the selected author	5. Essay on the selected author
6. Old English or history of English	6. Chaucer and Middle English literature
7. Middle English texts	A dissertation on some aspect of Milton or another author must also be written.
8. Chaucer and the fifteenth century	

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. Instead of studying the selected author candidates may, after consultation with the head of the department either submit an independent thesis on an approved subject, or, subject to the approval of the head of the department concerned, take a paper on an approved course selected from those available in the Faculties of Arts, Economic and Social Studies and Law.

The courses and special author in the session 1960-1 will be George Eliot for Novel students and Ibsen for Drama students.

The selected texts for the Old English paper in part 2 in June 1961 will be *Beowulf and The Fight at Finnsburg* (3rd ed., Klaeber, Heath and Co.); *The Dream of the Rood* (ed. Dickins and Ross); *The Parker Chronicle 832-900* (ed. A. H. Smith); Wyatt's *Anglo-Saxon Reader* (specified sections).

The selected texts for the Middle English paper (Scheme A) in part 2 in June 1961 will be *Sir Gawain and the Green Knight* (ed. Tolkien and Gordon); *The Wakefield Pageants in the Towneley Cycle* (ed. A. C. Cawley); and *Fourteenth Century Verse and Prose* (ed. Sisam, with vocabulary by Tolkien).

Candidates will be required to translate passages from these texts and from unprescribed texts, and to answer literary and historical questions suggested by them.

Chaucer [for part 2 in June 1961]: general knowledge of the complete works and of their language and metre with detailed study of *The Parliament of Fowls*, Book III of *Troilus and Criseyde*, *The Pardoner's Prologue*, and *Tale*, and *The Nun's Priest's Tale*.

Scheme B

At the end of the third academic year candidates will sit for the final examination for the degree in special studies in English and will take the under-mentioned papers:

1. General paper, comprising passages for translation from unprescribed Old and Middle English texts and literary, historical and linguistic questions (1 paper)
2. Old English (1 paper)

3. Middle English (1 paper)
 4. Chaucer and the fifteenth century (1 paper)
 5. English philology (1 paper)
 6. One paper on *one* of the following:
 - Gothic and Germanic philology
 - Old Icelandic
 - Modern Icelandic
 - Old Saxon and Old High German
 - Old French
 - Greek philology
 - Latin philology
 - English palaeography and bibliography
 - Phonetics
 - Anglo-Saxon art and archaeology
 - Medieval Welsh
 - The structure of present-day English
 - A subject in the department of English literature
 7. One paper on another of the subjects mentioned in 6 above, or on the subject specially approved by the Board of the Faculties of Arts, Economic and Social Studies and Law, or on an additional subject taken in the department of English literature, unless the candidate has previously received permission to present a dissertation instead
 8. Shakespeare (1 paper)
 9. Selected period (1 paper)
- Candidates will also be examined orally.

The subject or subjects taken in the department of English literature will ordinarily be examined at the end of the academic year in which the relevant course has been given.

Texts for 1960-61

The selected texts for the Old English paper in June 1961 will be as for Scheme A.

The selected texts for the Middle English paper in June 1961 will be as for Scheme A, with the addition of *Early Middle English Texts* (ed. Dickins and Wilson).

For additional reading in preparation for the general paper the following are recommended:

The signed poems of Cynewulf (namely *Juliana*, ed. W. Strunk; *Elene*, ed. A. S. Cook; *Christ*, ed. A. S. Cook; *Fates of the Apostles*, ed. G. P. Krapp); *Selections from the Old English Bede* (ed. W. J. Sedgefield); *Sawles Warde* (ed. R. M. Wilson); *Middle English Metrical Romances* (ed. W. H. French and C. B. Hale); *Morte Arthure* (ed. E. Björkman).

Chaucer and the fifteenth century (for June 1961): a general knowledge of Chaucer's poetry, including its language and metre, with detailed study of *The Parliament of Fowls*, Book III of *Troilus and Criseyde*, *The Pardoner's Prologue* and *Tale* and *The Nun's Priest's Tale*; also a general outline of English literature in the fifteenth century, with particular reference to the work of Malory and of the Scottish Chaucerians.

FRENCH

Candidates for the degree of Bachelor of Arts in special studies in French language and literature shall be required before entering upon the scheme of study to have attained a pass in Latin at the ordinary level of the General Certificate of Education examination or its equivalent.

The scheme of study will be:

First year

1. French language and literature (translation into French, translation into English and *explication*, phonetics and Old French, general linguistics and Romance philology; history of the French language, period or periods of French literature and thought)
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:

1. Translation from and into French
2. *Explication de textes*
3. General linguistics, Romance philology, history of the French language, and Old French
4. French history and institutions
5. Literature, including a literary essay in French
6. Phonetics (1½ hours)

Second year

1. Translation into French
2. Translation into English
3. *Explication de textes*
4. History of the French language
5. Old French
6. Stylistics
7. French history and institutions
8. Phonetics
- 9, 10, 11. Special subjects: three of the following* selected with the approval of the head of the department:
 - Sixteenth-century prose
 - Sixteenth-century poetry
 - Eighteenth-century novel
 - Eighteenth-century thought
 - Twentieth-century literature
 - History of French vocabulary and Semantics

Third year

1. Translation into French
2. Translation into English
3. *Explication de textes*

*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.

4. History of the French language
5. Old French
6. French history and institutions
- 7, 8, 9. Special subjects: three of the following*, selected with the approval of the head of the department:
 - Nineteenth-century novel
 - Nineteenth-century poetry
 - Nineteenth-century thought
 - Twentieth-century literature
 - Twentieth-century thought
 - Provençal
 - Romance philology (this course will be open only to those who offer Latin, Spanish or Italian as a subsidiary subject)
 - Contemporary history and institutions
 - Phonetics.

A dissertation, to take two years, may be substituted for two courses, one from 9 to 11 in the second year, and one from 7 to 9 in the third year.

In addition to the above, students will be required to take in their second and third 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. In cases where students have been granted exemption from the first-year course of their subsidiary subject as a result of exceptional performance in the advanced level papers of the General Certificate of Education examination, they may be permitted to take their final examination in that subject at the end of their second year.

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.

FINAL EXAMINATION

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 (including Old French unseen translation)
3. Essay
4. *Explication de textes*
5. History of the French language, and stylistics
6. Old French
- 7, 8. French history and institutions, and second-year special subjects
- 9, 10, 11. Third-year special subjects (3 papers, each of 2 hours).

The third term of the second year will normally be spent at an approved French university. The cost of residence abroad is not included in the normal fee for an arts course.

*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.

FRENCH AS A SUBSIDIARY SUBJECT

Students of *other* special studies schools taking French as a subsidiary subject will be required to take the following courses in the second year:

Prose	}	three hours a week and conversation
Translation/essay		
Literature		
Phonetics and conversation		

The texts of literature studied in the second year will be examined in March of that year.

In the third year

Prose	}	three hours a week and conversation
Translation/essay		
Literature		
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 LATIN

French

The courses and examinations in French will be the same as those for the degree in special studies in modern languages and literatures [see pages 320 and 322].

Latin

The final examination will consist of the following papers:

Latin prose composition (1 paper)

Latin unprepared translation (1 paper)

The Latin books prescribed for special studies in classics (2 papers) [see the prospectus *The Faculty of Arts*, pages 101-2].

General paper as for special studies in classics (1 paper).

One of the special subjects as prescribed for special studies in Latin

SPANISH

Candidates for the degree of Bachelor of Arts in special studies in Spanish language and literature shall be required before entering upon the course to have attained a pass in Latin at the ordinary level in the General Certificate of Education examination, or its equivalent.

The scheme of study will be:

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.

Subject to the approval of the Board of the Faculties of Arts, Economic and Social Studies and Law, some modification of the requirements of the first year may be made for candidates who have distinguished themselves at the advanced level in the examination for the General Certificate of Education but all candidates will be required to attend the lectures on Spanish language, literature and civilisation, as well as those on the geography of Spain.

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 some university where the medium of intercourse is Spanish. The cost of residence abroad is not included in the normal fee for an arts course.

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 papers in Spanish:

Translation (1 paper)
History of the language (1 paper)
Modern literature and civilisation (1 paper)
Literary appreciation (1 paper)
Essay (1 paper.)

The final examination at the end of the third year will consist of an oral examination and nine papers as follows:

Prose translation (1 paper)
Golden Age literature (1 paper)
Unseen translation (1 paper)
Essay (1 paper)
Hispanic American literature (1 paper)

Two special periods or subjects of Hispanic and Portuguese literatures, languages or civilizations (2 papers)

Either two papers selected from:

- Medieval literature
- History of the Spanish language
- Spanish civilization
- Portuguese language

or a dissertation on a subject approved by the head of the department.

SPANISH AS A SUBSIDIARY SUBJECT

An examination in Spanish as a subsidiary subject for the degree of Bachelor of Arts in special studies 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.

ITALIAN

Candidates for the degree of Bachelor of Arts in special studies in Italian language and literature shall be required before entering upon the scheme of study to have attained a pass in Latin at the ordinary level of the General Certificate of Education examination, or its equivalent. The scheme of study will be:

First year

1. Italian language, literature and drama
2. Latin, French, 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 of special studies 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.

Subject to the approval of the Board of the Faculties of Arts, Economic and Social Studies and Law, some modification of the requirements of the first year may be made for candidates who have distinguished themselves at the advanced level in the examination for the General Certificate of Education, but all candidates will be required to attend the lectures on Italian civilisation.

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 normally be spent at some university where the medium of intercourse is Italian. The cost of residence abroad is not included in the normal fee for an arts course.

ITALIAN

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.

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

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 drama (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)

Literature, drama and prescribed texts (3 papers)

Italian civilisation (1 paper)

Special subject (1 paper)

Essay in Italian on a prescribed subject (1 paper)

History of the language (1 paper).

In addition, candidates shall be required to present a dissertation on a subject approved by the head of the department.

GERMAN

For the degree of Bachelor of Arts in special studies in German language and literature, the scheme of study will be:

First year

1. German language and literature
2. Another approved foreign language or English
3. Another approved subject in the Faculty not taken under 2
4. Modern history with special reference to Germany, or an approved course in philosophy.

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, an oral 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.

Subject to the approval of the Board of the Faculties of Arts, Economic and Social Studies and Law, some modification of the requirements of the first year may be made for candidates who have distinguished themselves at the advanced level in the examination for the General Certificate of Education, but all candidates must attend the lectures on modern history with special reference to Germany, or those in the approved course in philosophy.

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 normally be spent at an approved university where the medium of intercourse is German. The cost of residence abroad is not included in the normal fee for an arts course.

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. 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.

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)

GERMAN

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 a 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 of *other* special studies schools taking German as a three-year subsidiary subject 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 in each of the second and third years will consist of two papers.

1. Composition, unprepared translation and essay.

2. Literature and prescribed texts together with an examination in phonetics in the second year and an oral examination in the third year.

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.

RUSSIAN

Candidates who have obtained at least a pass at the ordinary level in Russian in the General Certificate of Education examination or reached an equivalent standard, will normally be considered for entry upon a three-year scheme of study for the degree.

Other candidates will normally be required to take a four-year scheme. The course of study for the first year shall normally consist of :

1. Russian language
2. Introduction to Russian history and literature
3. One approved subject other than Russian.

Candidates will normally be required to pass an examination in sections 1 and 3 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. Either one or two approved subjects other than Russian.

Candidates taking the three-year scheme will study two approved subjects other than Russian. They will normally be required to pass a qualifying examination in all the above subjects before proceeding to further study. Candidates taking the four-year scheme may continue the study of the approved subject begun in their first year and add one new approved subject, or they may discontinue the approved subject studied in their first year and begin a new approved subject. In both cases, before proceeding to further study, they will normally be required to have passed a qualifying examination in the two approved subjects and in sections 1, 2 and 3.

During the two final years the course will consist of:

1. History of the language
2. Russian literature with prescribed texts
3. History of Russia and the Soviet Union to 1941
4. Two special subjects to be chosen from the following with the approval of the head of the department:

A second Slavonic language (Polish, Czech or Bulgarian)

Old Russian literature with prescribed texts

The development of 19th-century Russian radical thought

Russian history, 1856-1905 or 1905-1941

In addition, candidates taking the three-year scheme will be required to study a subsidiary subject to be approved by the head of the department from section 4 of the first-year scheme. Candidates taking the four-year scheme will, during their third year, either complete a three-year course in the subsidiary subject begun in their first year or continue the study of the subject begun in their second year, completing a three-year course in this subject in their fourth year. All candidates, when they have completed the course in the subsidiary subject which they elect to take for three years, shall present themselves for the necessary examination.

Students will be required when possible to attend an approved Russian summer school during the long vacation preceding their final year. The cost is not included in the normal fee for an arts course.

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 and institutions (1 paper)

Russian literature with prescribed texts (1 paper)

The final examination shall consist of an oral examination and the following papers:

Composition (1 paper)

Unprepared translation (1 paper)

Essay in Russian (1 paper)

History of the language (1 paper)

Literature (3 papers including 1 paper on Tolstoy and Dostoievsky)

History of Russia* (1 paper)

Special subjects (2 papers)

A candidate may, with the approval of the head of the department, offer a dissertation instead of one of the special subject papers.

MODERN LANGUAGES AND LITERATURES

Candidates for the degree of Bachelor of Arts in special studies in modern languages and literatures shall be required to pursue courses and to submit themselves for examination in any two of the following subjects: French, German, Italian, English, Spanish, Russian.

Candidates shall also be required to study auxiliary subjects.

Conspicuous merit shown in any part or parts of the examination by candidates who are placed in the first or second class will be signalled on the class list by some special mark.

A qualifying examination in both special studies schools must normally be passed by candidates at the end of the first year before they proceed to further study.

Students taking two foreign languages in the school of special studies in modern languages and literatures 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 recommended to spend the long vacation in the other country. The cost of residence abroad is not included in the normal fee for an arts course.

*For the period 1917-41 emphasis will be laid upon the history of Soviet institutions.

French or Italian or Spanish

The attainment of a pass in Latin at the ordinary level of the General Certificate of Education examination is required of students proposing to read for the degree of Bachelor of Arts in special studies in which French or Italian or Spanish forms a principal part.

French

The scheme of study will be:

First year

1. Translation into French
2. Translation into English and *explication*
3. Phonetics and Old French
4. History of the French language
5. A period or periods of French literature
6. Seventeenth-century French thought.

Second year

1. Translation into French
 2. Translation into English
 3. History of the French language
 4. Old French
 5. Phonetics
 - 6, 7. Two special subjects, selected with the approval of the head of the department, from the following:*
- (a) Sixteenth-century prose
 - (b) Sixteenth-century poetry
 - (c) Eighteenth-century novel
 - (d) Eighteenth-century thought
 - (e) Twentieth-century literature
 - (f) History of French vocabulary and Semantics

Students will also be required to follow courses in *Explication de textes* and Stylistics.

Third year

1. Translation into French
 2. Translation into English
 3. History of the French language
 4. Old French
 - 5, 6. Two special subjects, selected with the approval of the head of the department, from the following:*
- (a) *Explication de textes*
 - (b) Nineteenth-century novel
 - (c) Nineteenth-century poetry
 - (d) Nineteenth-century thought
 - (e) Twentieth-century literature
 - (f) Twentieth-century thought
 - (g) Provençal

*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.

- (h) Romance philology. This course will be open to those who offer Latin, Spanish or Italian as their other special studies subject
- (i) Contemporary history and institutions
- (j) Phonetics.

Italian or Spanish

The course of study and subjects of examination in Italian or Spanish shall be: prescribed texts of various periods, studied from a literary and linguistic standpoint; literature; drama; history of the language; translation; civilization.

German

For students taking German in the special studies school of modern languages and literatures, there shall be in the second and third years alternative schemes of study, scheme A and scheme B, related to the schemes of study in the school of special studies in German. In scheme A special attention will be paid to literature, in scheme B to philology and medieval literature.

English

For students in the school of special studies in modern languages and literatures there shall 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 special studies 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.

Russian

Candidates offering Russian as part of special studies in modern languages and literatures, unless they have obtained at least a pass at ordinary level in Russian in the General Certificate of Education examination or have reached an equivalent standard, will normally be required to spend a minimum of four years on the scheme of study.

In this case they will devote their first year of work in the department of Russian to an intensive study of the language and attend courses on Russian philology, literature and history in their second, third and fourth years. They will normally take their final examination in their other language at the end of the third year and their final examination in Russian at the end of the fourth year. The class list will be published only after the final examination in Russian and will be based on the results of both examinations.

EXAMINATIONS

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 from and into French
2. *Explication de textes*
3. History of the French language, and Old French
4. Literature, including a literary essay in French
5. Phonetics (1½ 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
3. History of the French language (2½ hours)
4. Old French (including Old French unseen translation)
5. Second-year special subjects
- 6, 7. Third-year special subjects (2 hours each).

German

The qualifying examination at the end of the first year shall consist of an oral examination, an oral 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 (3 papers)
- Middle High German (1 paper)
- Composition (1 paper)
- Unprepared translation and essay in German (1 paper)

Scheme B

- Old High German (1 paper)
- Middle High German (1 paper)
- History of the German language (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 qualifying examination at the end of the first year shall consist of an oral examination and the following papers in Italian:

Composition and unseen translation (1 paper)
 Literature, drama and prescribed texts (1 paper)
 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)
 Literature, drama and prescribed texts (3 papers)
 Italian civilisation (1 paper)
 History of the language (1 paper)
 or Essay in Italian on a prescribed subject (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:

Composition and translation (1 paper)
 Russian literature with prescribed texts (1 paper).

The final examination will consist of an oral examination and the following papers:

Composition (1 paper)
 Unprepared translation (1 paper)
 History of the language (1 paper)
 Essay in Russian (1 paper)
 Literature (2 papers)
 either History of Russia (1 paper)

or A special subject (1 paper) selected from the following:

1. Old Russian literature with prescribed texts
2. History of Russia, 1856-1905 or 1905-1941
3. The development of nineteenth-century Russian radical thought
4. Tolstoy and Dostoevsky

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:

Translation (1 paper)
 Modern literature and prescribed texts (1 paper)
 History of the language (1 paper)
 Essay (1 paper).

The final examination at the end of the third year will consist of an oral examination and the following six papers:

Translation into Spanish (1 paper)

Translation from Spanish and essay (1 paper)

Golden Age literature (1 paper)

1 paper selected from: Medieval literature, history of the language, Portuguese language

2 papers selected from: Hispanic American literature, Góngora and Quevedo, Unamuno

English, schemes A and C

See special studies in English, pages 307 and fol.

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 special studies in English, scheme B (1 paper)

Selected texts in Middle English, with literary, historical and linguistic questions suggested by them, as for special studies in English, scheme B (1 paper)

English philology, as for special studies in English, scheme B (1 paper)

Two selected periods, as for special studies in English, scheme A (1 paper)

One paper selected from the following:

Chaucer and the fifteenth 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 special studies in English, scheme B. (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.)

HISTORY

Candidates who wish to read history for the degree of Bachelor of Arts in special studies must provide evidence of a reading knowledge of two languages other than English, of which one should be French. A pass in the General Certificate of Education examination in two such languages, with at least one at the advanced level, or some alternative equivalent evidence satisfactory to the head of the department, will be required.

EXAMINATIONS

The examinations for the degree of Bachelor of Arts in special studies 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.

The first-year examination:

1. (2 papers) *Either* (a) Outlines of Greek and Roman history
or (b) The general history of Western Europe from
c. A.D. 500.
2. (1 paper) *Either* (a) Medieval society
or (b) Expansion of Europe (1492-1783)
3. The prescribed examinations on approved one-year courses in two other subjects.

The final examination:

1. The history of Britain (3 papers):
 - (a) from the earliest times to 1399
 - (b) from 1399 to 1688
 - (c) from 1688
2. One of the following subjects in European history (1 paper):
 - (a) Greek history from 478 B.C. to 362 B.C.
 - (b) Roman history from 133 B.C. to 44 B.C.
 - (c) The development of medieval government
 - (d) The Church in the later Middle Ages
 - (e) The history of Europe, 1648-1789
 - (f) France and Europe, 1789-1870
3. One of the following subjects in world history (1 paper):
 - (a) History of the United States of America from 1783
 - (b) History of India and the Far East from 1815
 - (c) History of Russia from 1856
 - (d) Economic history of the modern world (1815-1945).
4. The history of political *or* social *or* economic *or* scientific thought (1 paper)
5. One of the following special subjects* (2 papers):
 - (a) The Augustan Age
 - (b) The history and archæology of Roman Britain
 - (c) English manorial economy in the twelfth and thirteenth centuries
 - (d) Florence in the Middle Ages
 - (e) The king's dominions overseas, 1259-1369
 - (f) The English Church in the fourteenth century
 - (g) Politics, government and society in Elizabethan England
 - (h) The Commonwealth and the Restoration
 - (i) Scientific and technical change in England, 1750-1830
 - (j) The French Revolution
 - (k) The Age of Peel
6. A dissertation.
7. General history (1 paper)

Candidates may offer two additional papers from (3) in place of (6) and (7).

*Not all these subjects will necessarily be offered every year, and the list may be varied from time to time.

PHILOSOPHY

For the degree of Bachelor of Arts in special studies in philosophy:

The scheme of study for the first academic year shall normally be the same as that for the degree of Bachelor of Arts in general studies or for the degree of Bachelor of Arts in special studies in economics or sociology, provided in each case that it includes philosophy as one of the four first-year subjects. A qualifying examination in these subjects, which must be passed by candidates before they proceed to further study, will be held at the end of the first year. Subject to the approval of the Board of the Faculties of Arts, Economic and Social Studies and Law, suitably qualified candidates may be permitted to vary the scheme of study required for the first year.

During the second and third years candidates must attend approved courses in philosophy and submit written works as directed.

The final examination, at the end of the third year, will consist of eight papers:

1. Essay
2. Logic and metaphysics
3. Ethics
4. Political and social philosophy
- 5, 6. History of philosophy (two papers)
- 7, 8. Two of the following, to be chosen with the approval of the head of the department (one paper each):
 - Psychology, including philosophical psychology
 - Aesthetics and principles of criticism
 - Philosophy of language
 - Philosophy of religion
 - Philosophy of history
 - Methodology of the social sciences
 - Philosophical aspects of physical science
 - Philosophical aspects of biological science
 - Mathematical logic, including philosophy of mathematics
 - The work of a selected philosopher
 - The philosophy of a selected country.*

In addition candidates must present themselves for an oral examination.

GEOGRAPHY

Geography may be presented for a degree in special studies in either the Faculty of Arts or the Faculty of Science. The regulations governing the degree of Bachelor of Science in special studies in geography will be found in the prospectus of the Faculty of Science and in the Calendar.

For acceptance into the special studies school of geography to read for the degree of either Bachelor of Arts or Bachelor of Science, candidates must normally have obtained a high standard in geography at the advanced level in the General Certificate of Education examination and have achieved a good

*This paper will assume a knowledge of the language of the selected country.

all-round performance. It is an advantage to have taken geography at scholarship level in this examination. For the scheme leading to the degree of Bachelor of Arts candidates should normally have taken two arts subjects at advanced level in addition to geography.

First year

In the first academic year candidates must take, in addition to the course in geography, courses in two other subjects selected from among those approved for the degree of Bachelor of Arts in general studies. Geology will normally be one of these subjects, the other being selected with the approval of the head of the department.

A qualifying examination in all 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.

Second year

In the second academic year, in addition to the courses in geography, candidates must take an approved course in one other subject in the Faculty of Arts. This will normally be a second-year course in one of the subjects studied in the first year. The course will be examined at the end of the second year and its results assessed with those of the final examination.

Third year

In the third academic year candidates confine their studies to geography, and have some opportunity of specialising in the different branches of the subject. At the end of this year candidates will present themselves for the final examination which consists of the following:

- Physical geography (2 papers)
- Human geography (2 papers)
- Development of geographical thought (1 paper)
- Cartographic and field methods (1 paper)
- Geography of three selected areas (3 papers)

Two of the following:

- Cartography
- Historical geography of Britain
- Geography of planning
- Problems of economic geography
- Problems of political geography
- Problems of geomorphology
- Problems of the geography of population

} 1 paper each

Oral examination.

In addition each candidate must submit a thesis on an approved topic which is assessed as part of the final examination.

A competent reading knowledge of at least one modern foreign language is essential. During the course candidates must show that they have such knowledge

Field work is an integral part of the degree course in special studies and will be tested in the final examination. All students must attend field training courses in each of the three years; the third-year course will normally be spent abroad.

THEOLOGY

For the degree of Bachelor of Arts in special studies in theology the scheme of study will be:

First year	Old Testament 1 (Hebrew) New Testament Greek or Greek 1 Philosophy and history of religion 1 Philosophy or a one-year course in some other subject approved by the head of the department
Second year	Old Testament 2, option (i), (ii) or (iii) New Testament language and literature 1 Church history Biblical and historical theology Philosophy and history of religion 2
Third year	Old Testament 3, option (i), (ii) or (iii) New Testament language and literature 2 Church history Biblical and historical theology Philosophy and history of religion 3.

In special cases, on the recommendation of the head of the department of theology, the requirement to take Hebrew in the first year may be waived by the Board of the Faculties of Arts, Economic and Social Studies and Law and an alternative course substituted. For the second and third years, the options Old Testament 2, (i), (ii) or (iii) and 3, (i), (ii) or (iii) are available. The final decision regarding the options to be taken shall rest with the head of the department of theology, it being understood that the selection of option (iii) will be exceptional.

A knowledge of Greek and Hebrew is not required for admission to the course.

Students of the theological colleges proceeding to the degree of Bachelor of Arts in special studies in theology will be required to take their first-year courses at the University except that they may take New Testament Greek and one other subject in their colleges. In their second and third years they must attend at least four hours of lectures a week at the University.

At the end of each year all candidates must normally pass the examination in the subjects prescribed for that year.

EXAMINATION

First year	Old Testament 1 (Hebrew) New Testament Greek or Greek 1
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THEOLOGY

	Philosophy and history of religion 1
	An additional subject
Second year	Old Testament 2, option (i), (ii) or (iii) New Testament language and literature 1 Church history (a), (b) or (c) Philosophy and history of religion 2 Biblical and historical theology (a) or (b)
Third year	Old Testament 3, option (i), (ii) or (iii) New Testament language and literature 2 Church history (a), (b) or (c) Philosophy and history of religion 3 Biblical and historical theology (a) or (b).

There is one paper in each of the above subjects.

BIBLICAL STUDIES

For the degree of Bachelor of Arts in special studies in biblical studies the scheme of study will be:

First year	Biblical studies 1s Hebrew 1
	A one-year course in an additional subject chosen with the approval of the head of the department of theology from among those in which courses are approved for the degrees of Bachelor of Arts or Bachelor of Science in general studies.

Candidates who, before admission to the scheme of study, have not acquired a knowledge of Greek equivalent to a pass at ordinary level in the General Certificate of Education examination, will be required during the first year to take *either* the course Greek 1 *or* the course New Testament Greek and to pass the prescribed examination. In exceptional circumstances such candidates may, at the discretion of the head of the department of theology, be released during the first year from the requirement to take the course and examination in the additional subject referred to above.

Second year	New Testament language and literature 1 <i>or</i> Old Testament 2 Biblical studies 2 Church history Biblical theology A two-year course (to be continued in the third year) in the additional subject taken in the first year.
Third year	New Testament language and literature 2 <i>or</i> Old Testament 3 Biblical studies 3 Biblical theology Philosophy and history of religion 3 The two-year course in the additional subject.

EXAMINATIONS

At the end of the first year candidates will take a qualifying examination which must normally be passed by candidates before they proceed to further study. The examination will consist of:

Biblical studies (3 papers)

Hebrew 1 (2 papers)

Greek 1 (2 papers) *or* New Testament Greek (1 paper)

The additional subject.

At the end of the second year candidates will be examined as follows:

New Testament language and literature 1

or Old Testament 2 (1 paper)

Biblical studies 2 (1 paper)

Church history (1 paper)

Biblical theology (1 paper)

The additional subject.

Candidates must satisfy the examiners in this examination before proceeding to further study.

At the end of the third year candidates will be examined as follows:

New Testament language and literature 2

or Old Testament 3 (1 paper)

Biblical studies (1 paper)

Biblical theology (1 paper)

Philosophy and history of religion 3 (1 paper)

The additional subject.

PSYCHOLOGY

[This scheme of study is at present in abeyance]

For the degree of Bachelor of Arts in special studies in psychology the scheme of study will be:

First year

Psychology I comprising:

Scientific bases of psychology

General psychology

Experimental psychology

Mathematical methods

Neuro-anatomy

Two other approved subjects.

Second and third years

Experimental psychology

Biological psychology

Developmental psychology

Cognitive psychology

Measurement and methodology

Philosophy and history of psychology

Psychopathology and applications of psychology

PSYCHOLOGY

In addition each candidate must present a short thesis on an approved independent study which is assessed as part of the final examination.

Students will normally be required to attend a short summer course in an approved institution, the cost of which is not included in the normal fee for the course.

EXAMINATIONS

At the end of the first year a qualifying examination will be held in

Psychology

Neuro-anatomy

and two other approved subjects.

This must normally be passed by candidates before they proceed to further study.

The examination in psychology will include three three-hour papers as follows:

General psychology

Experimental psychology and mathematical methods

Scientific bases of psychology.

Laboratory notebooks must be submitted.

At the end of the second year laboratory notebooks must be submitted in June and the short thesis must be handed in not later than 30 September.

At the end of the third year the examination will consist of eight three-hour papers as follows:

Experimental psychology

Biological psychology

Developmental psychology

Cognitive psychology

Measurement and methodology

Philosophy and history of psychology

Psychopathology and applications of psychology

Essay paper

together with a practical examination, at which laboratory notebooks must be submitted, and an oral examination.

MUSIC

For the degree of Bachelor of Arts in special studies in music the scheme of study will be:

The courses for the first year shall normally include music and two additional approved subjects in the arts or sciences; one of the additional subjects may with advantage be a foreign language.

At the end of the first year a qualifying examination in these three subjects will be held which must normally be passed by candidates before they proceed to further study.

In addition to musical studies each candidate in the second year must pursue for a further year a prescribed course in one of the subjects approved for the first year and pass an examination.

MATHEMATICS

The scheme of study for candidates for the degree of Bachelor of Arts in special studies in mathematics, which extends over three years, will include in addition to the special studies courses prescribed for the degree of Bachelor of Science in special studies in mathematics, the Introductory course in statistics and one subject, other than mathematics or statistics, selected after consultation with the head of the department of mathematics from among those approved under regulation 6 for the degree of Bachelor of Arts in general studies, and studied for two years, or for one year if exemption from the first-year course is granted.

In special cases candidates may be accepted for a scheme of special studies to extend over four years. The first-year course will then be determined in accordance with the candidate's qualifications on entry. The scheme of study as a whole will include the items of the three-year scheme.

TEXTILE DESIGN

In addition to the entrance requirements of the Joint Matriculation Board, it is desirable that candidates for the degree of Bachelor of Arts in special studies in textile design should have attained passes in the General Certificate of Education examination in a modern language at advanced level, and in mathematics and general science at the ordinary level.

The scheme of study will be:

- | | |
|-------------|--|
| First year | Fine art 1 |
| | Textile design and textile technology: |
| | Raw materials 1 |
| | Woollen yarn production 1 } or Staple fibre yarn |
| | Worsted yarn production 1 } manufacture 1 |
| | Cloth analysis 1 |
| | Cloth structure 1 |
| | Colour study 1 |
| | Loom study 1 |
| | Textile calculations 1A |
| | Principles of pattern design 1 |
| | Two of the following: |
| | Economics or Industrial management 1 |
| | Psychology |
| | An approved modern language |
| | Another approved subject. |
| Second year | Fine art 2 |
| | Textile design and textile technology: |
| | Raw materials 2 |
| | Woollen yarn production 2 } or Staple fibre yarn |
| | Worsted yarn production 2 } manufacture 2 |
| | Cloth analysis 2 |
| | Cloth structure 2 |

Colour study 2
 Loom study 2
 Textile calculations 1B
 Textile testing
 Principles of pattern design 2
 One of the following by arrangement with the head of the department concerned:
 Economic history or Industrial management
 Industrial psychology
 An approved modern language
 Another approved course.

Third year Textile design and textile technology:
 Woollen yarn production 3 } or Staple fibre yarn
 Worsted yarn production 3 } manufacture 3
 Complex textiles
 Science of textile fibres and processes
 Dyeing 1T
 Cloth finishing 1 and 2
 Mill design and management
 Principles of pattern design 3

Candidates shall also be required to submit a thesis based on original work in textile design.

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 take the part 1 examination:

Fine art (2 papers)

An optional subject (1 paper).

Candidates must normally pass this examination before they proceed to further study.

At the end of the third year candidates will take the part 2 examination:

Fibre science, dyeing, and finishing (1 paper)

Raw materials, and woollen and worsted yarn production, *or* staple fibre yarn manufacture (1 paper)

Loom study, cloth structure, and textile calculations (1 paper)

Textile testing and mill design and management (1 paper)

Complex textiles and colour study (1 paper)

Two practical examinations: cloth analysis, and pattern design

A thesis

An oral examination.

The candidate's performance in the subjects taken outside the department of textile industries will be taken into account.

TEXTILE MANAGEMENT

For the degree of Bachelor of Arts in special studies in textile management the scheme of study will be:

First year	Industrial management I Textile technology (12 hours a week of lectures and laboratory work) An approved modern foreign language Another approved course
Second year	Industrial management II Textile technology (15 hours a week of lectures and laboratory work) One of the following: An approved modern foreign language Another approved course
Third year	Industrial management III Textile technology and Mill management (20 hours a week of lectures and laboratory work).

Candidates shall also be required to submit a thesis based on original work in industrial management.

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 take part 1 of the final examination:

Textile technology (2 papers)
Optional subject (1 paper)

Candidates must normally pass this examination before they proceed to further study.

At the end of the third year, candidates will be examined as follows in part 2 of the final examination:

Fibre science, dyeing; and finishing (1 paper)
Raw materials, woollen and worsted yarn production *or* staple fibre yarn manufacture (1 paper)
Loom study, cloth structure, and textile calculations (1 paper)
Textile testing and mill management (1 paper)
Complex textiles, knitting, and colour study (1 paper)
Two practical examinations:
Cloth analysis
Textile technology
Industrial management (3 papers)
Thesis in industrial management

Oral examination.

The candidate's performance in the subjects taken outside the departments of textile industries and economics will be taken into account.

Regulations prescribing schemes of study and particulars of courses of lectures for the degree of Bachelor of Arts in special studies in economics, economics with statistics, sociology and political studies, will be found on pages 385-8.

PREScribed SCHEMES OF EXAMINATION FOR THE DEGREE OF MASTER OF ARTS

Candidates proceeding to the degree of Master of Arts by examination alone will be required to take the following papers at their final examination:

GREEK

1. Prescribed Greek books [translation and questions] (2 papers)
2. General paper (1 paper)
3. Greek unprepared translation (1 paper)
4. Greek prose composition (1 paper)
5. Special subject (2 papers)
6. An oral examination.

LATIN

1. Prescribed Latin books [translation and questions] (2 papers)
2. General paper (1 paper)
3. Latin unprepared translation (1 paper)
4. Latin prose composition (1 paper)
5. Special subject (2 papers)
6. An oral examination.

SEMITIC LANGUAGES AND LITERATURES

1. Comparative Semitic philology; epigraphy; Hebrew composition (1 paper)
2. Prescribed and unprescribed books from the Old Testament (1 paper)
3. Prescribed and unprescribed portions of Aramaic (1 paper)
4. Prescribed and unprescribed portions of post-biblical and modern Hebrew (1 paper)
5. Hebrew literature (1 paper)
6. Syriac or Arabic composition and prescribed texts (1 paper)
7. An oral examination.

ENGLISH

Scheme A [literature]

1. Selected period of English literature (1 paper)
2. Selected author (1 paper)
3. Special subject (1 paper)
4. American literature (1 paper)
5. Commonwealth literature (1 paper)

All candidates will normally take not less than three of these papers, and candidates who are not graduates in special studies in English of this University, nor holders of its postgraduate diploma in English studies, must take not less than four papers.

6. An extended essay on a literary theme, to be presented before the end of the second term. The subject must normally be approved by the head of the department before the end of the first term.
7. An oral examination.

In addition, all candidates must attend a seminar on scholarly method throughout one year and perform satisfactorily the exercises required.

Scheme B [language]

1. Old English texts (1 paper)
2. Middle English texts (1 paper)
3. Old English and Middle English literature with translation from unspecified texts (1 paper)
4. English philology (1 paper)
5. Old Icelandic (1 paper)
6. Special subject (1 paper).

FRENCH

1. Composition (1 paper)
2. Unprepared translation (1 paper)
3. Essay in French (1 paper)
4. A specific period or periods of French literature, thought and civilisation approved by the head of the department (1 paper)
5. An aspect of the period or periods chosen under 4 (1 paper)
6. A special subject (1 paper) or a short dissertation connected with 4 or 5
7. Oral examination in French which will bear on the subjects of study.

SPANISH

1. Composition (1 paper)
2. Unprepared translation (1 paper)
3. Essay in Spanish (1 paper)
4. Spanish literature (3 papers)
5. A period of Spanish thought and civilisation (1 paper)
6. An oral examination.

ITALIAN

1. Composition (1 paper)
2. Unprepared translation (1 paper)
3. Essay in Italian (1 paper)
4. Prescribed texts (2 papers)
5. Special subject (1 paper)
6. A period or periods of Italian literature (1 paper)
7. An oral examination.

GERMAN

1. Composition (1 paper)
2. Unprepared translation (1 paper)
3. Essay in German (1 paper)
4. Middle High German [with detailed study of a prescribed author or texts: *either* Wolfram von Eschenbach or *Das Nibelungenlied* and *Kudrun*] (1 paper)
5. *Either* modern German literature (3 papers)
or Germanic philology (1 paper)
History of the German language (1 paper)
Period of modern German literature (1 paper)
6. An oral examination.

RUSSIAN

1. Translation into Russian
2. Translation from Russian
3. Essay in Russian
4. History of the Russian language with prescribed texts
or
Soviet institutions
5. A period of Russian history selected with the approval of the head of department
6. The Russian novel, 1856-81
or
Russian poetry, 1743-1914
or
The Russian short story, 1825-1904 and Russian drama, 1750-1904
7. An oral examination which will bear upon the above papers.

HISTORY

1. General paper
2. English history, medieval and modern (2 papers)
3. Sources of English history
4. *Either* ancient history [to A.D. 337]: general (2 papers), with special period in ancient history (2 papers)
or medieval history [A.D. 300 to 1500]: general (2 papers), with special period in medieval history (2 papers)
or modern history [since A.D. 1500]: general (2 papers), with special period in modern history (2 papers)
5. An oral examination.

PHILOSOPHY

1. An essay (1 paper)
2. General questions (1 paper)
3. *Three* of the following:
Logic and theory of knowledge (1 paper)
Ethics (1 paper)
Political philosophy (1 paper)
History of ancient philosophy (1 paper)
History of modern philosophy (1 paper)
4. A special subject approved by the head of the department (1 paper)
5. An oral examination.

GEOGRAPHY

1. Essay (1 paper)
2. Regional geography (2 papers)
3. Human geography (2 papers)
4. Special subject (1 paper)
5. An oral examination.

PREScribed EXAMINATIONS

THEOLOGY

1. An essay (1 paper)
2. Selected Old Testament subject in English (1 paper)
3. Selected New Testament subject with Greek text (1 paper)
4. Selected period of church history (1 paper)
5. Selected period or subject of Christian doctrine (1 paper)
6. *Two* of the following subjects (1 paper each):
 - A portion of the Old Testament in Hebrew
 - A portion of the Old Testament in Greek
 - A selected non-Christian religion
 - Selected patristic texts
 - Philosophy of religion
7. An oral examination.

PSYCHOLOGY

1. Psychological theory (1 paper)
2. A related philosophical subject (1 paper)
3. A special subject approved by the head of the department (1 paper)
4. *Three* of the following:
 - Biological psychology (1 paper)
 - Experimental psychology (1 paper)
 - Psychometrics (1 paper)
 - Social psychology (1 paper)
 - Applied psychology (1 paper)
 - Epistemic theory (1 paper)
5. A short dissertation to be completed during the final year
6. An oral examination.

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.

MATHEMATICS

Not less than four papers on the two branches of mathematics in which the candidate has pursued an approved course of study.

ECONOMICS

1. An essay (1 paper)
2. General economics (2 papers)
3. *Two* papers on any *one* field of work selected from the following:
 - Economic history
 - History of economic thought
 - Economic theory
 - Econometrics
 - Industrial relations
 - Money and banking
 - International economics
 - Public economics
4. *One* paper on a special subject related to the field of work selected under 3 above
5. An oral examination.

SOCIOLOGY

1. General sociological theory (1 paper)
2. Social psychology (1 paper)
3. Social institutions (1 paper) to be chosen from the following:
 - (i) Property and social stratification
 - (ii) Marriage and the family
 - (iii) Social control
 - (iv) Political and economic institutions and structure.
4. A dissertation on a subject approved by the Board of the Faculties of Arts, Economic and Social Studies and Law.
5. An oral examination.

POLITICS

1. History of political theory (1 paper)
2. Comparative political institutions (2 papers)
3. A dissertation on a subject approved by the Board of the Faculties of Arts Economic and Social Studies and Law
4. An oral examination.

REGULATIONS PRESCRIBING SCHEMES OF STUDY FOR DIPLOMAS AND CERTIFICATES

THE 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 term: elementary biblical Hebrew; grammar, composition, re-translation and pointing of prescribed portions; outline of Jewish history to A.D. 130.

Second and third terms: more advanced prose passages from the Old Testament; prescribed portions of post-biblical Hebrew; Hebrew syntax; introduction to Jewish literature.

Fourth and fifth terms: prescribed poetic passages from the Old Testament; prescribed books of modern Hebrew; comparative Hebrew grammar and syntax; the development of Jewish religious ideas and institutions.

Sixth term: modern Hebrew; outline of Jewish history from A.D. 130.

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.

THE CERTIFICATE IN THE TEACHING OF HEBREW

Candidates who obtain the diploma in Hebrew may proceed to a third year of study for a Hebrew teachers' certificate. This certificate may also be taken, without the diploma, by candidates who hold an academic qualification which is regarded by the Senate as equivalent to the diploma.

The syllabus for the course, which will extend over two hours a week for three terms, will comprise more advanced classical and modern Hebrew; ten lectures on the general principles of education to be given by the department of education of the University; about twenty lectures on the methods and history of teaching the regular subjects of the Jewish school to be given by a lecturer approved by the University; six months' practical training, under supervision, at a local school.

THE 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, Arabic history and antiquities; and, in the second year, more advanced grammar, composition and conversation in Arabic, classical texts and 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.

THE CERTIFICATE IN THE TEACHING OF ARABIC

The one-year scheme of study leading to the certificate for intending teachers of Arabic is designed to meet the demand for teachers of literary Arabic in *Arabic speaking schools* in the Middle East. Candidates for the certificate will normally take the scheme after completing the two-year scheme for the certificate in Arabic; and the instruction will introduce them to Western methods of teaching Arabic grammar.

Candidates must furnish evidence satisfactory to the Senate of educational qualifications sufficient to enable them to profit by the scheme and, if they have not already some experience in teaching, should have the intention to teach. Candidates who do not hold the certificate in Arabic will normally be admitted only if they pass a preliminary examination of the same standard as that required for the certificate in Arabic.

Applicants whose native language is not English must in addition provide evidence that they have a sufficient knowledge of English, both written and spoken. The evidence required will be as for applicants for admission to a first degree scheme (see page 221).

The syllabus of the scheme, which will require attendance at classes for not less than four hours a week over three terms, will include:

- (a) the history of Arabic educational institutions, and educational methods as applied to the regular school subjects, and especially to the teaching of reading and writing
- (b) past and present methods of teaching Arabic
- (c) advanced work in Arabic grammar following Western methods
- (d) the study of prescribed texts on educational subjects, and of material selected for the teaching of reading in literary Arabic to Arabs.

Texts for 1960-61:

The Qur'an

As-Suyuti: 'Itqan

Al-Mas'udi: Muruj al-Dh-Dhahab (selections)

Taha Husein: Al-'Ayyam, Vol. I

Arabic History of Al-'Azhar

Selected essays from Majallat al-Majma'i l-'Alamiyi l-'Arabi (Damascus).

Students may be required to attend courses of lectures given in other departments.

THE DIPLOMA IN SPANISH

The diploma is designed to meet the needs of those who desire to increase their knowledge and to deepen their understanding of Spanish language and literature.

The scheme of study will be open to all candidates who can furnish evidence satisfactory to the Senate of educational qualifications, including a knowledge of Spanish, sufficient to enable them to profit by it. The University reserves the right to suspend the scheme in any year if the entry of students is regarded as insufficient.

The scheme will continue over two sessions and will consist of not less than two hours' tuition each week at the University during the normal academic terms.

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; each part of the examination will include an oral test and a student must pass part 1 *in toto* before proceeding to the second year of the course. The diploma will be awarded to those candidates who are successful in the whole examination, after having attended satisfactorily throughout the scheme. The diploma may be awarded with distinction.

The scheme of study will include:

First year: Grammar, translation and composition, Spanish history and civilisation from 1500 to 1700 or from 1800 to 1955 and four literary texts to be studied with particular reference to their background.

Second year: Grammar, translation and composition, phonetics, Spanish literature from 1500 to 1700 or from 1800 to 1955 and eight literary texts to be studied with particular reference to their background.

THE CERTIFICATE IN RUSSIAN

A certificate is awarded by the University to students who, after due preparation, can show in examination a thorough practical knowledge of the Russian language.

The scheme of study extends over not less than two sessions.

THE DIPLOMA IN THEOLOGY

The scheme of study for the diploma in theology is intended primarily for students of theology who are not qualified to undertake the scheme leading to the degree of Bachelor of Arts in special studies in theology. In general, candidates reading for the diploma attend lectures given in the degree scheme, but they are required to cover less ground. The course includes New Testament Greek but not Hebrew.

Before entering upon the scheme of study, those candidates who are not qualified to enter upon a degree scheme must pass an entrance examination in the following subjects:

English Bible (1 paper)

Essay or English literature (1 paper)

One additional subject selected in consultation with the head of the department of theology (1 paper).

They must also, unless exempted by the head of the department of theology, pass an oral examination.

The scheme of study extends over three years and comprises four subjects in each year as set out below:

First year

Old Testament: general survey with selected passages for exegesis (2 hours a week)

New Testament: New Testament Greek (3 hours a week)*

Church history (a): A.D. 70 to 313 (2 hours a week)

Philosophy and history of religion: history of religion (2 hours a week)

Second year

Old Testament: history and religion of Israel and set books in English (2 hours a week)

New Testament: New Testament language and literature (3 hours a week)

Church history (b): A.D. 313 to 451

or (c): either A.D. 1054 to 1600

or A.D. 1453 to 1845

or A.D. 1750 to the present day (2 hours a week)

Biblical theology (2 hours a week).

Third year

Old Testament: history and religion of Israel and set books in English (2 hours a week)

New Testament: New Testament language and literature (2 hours a week)

Biblical and historical theology (2 hours a week)

Philosophy and history of religion: religious ethics (2 hours a week).

*Prescribed book: H. P. V. Nunn, *The Elements of New Testament Greek*.

Students of the associated theological colleges reading for the diploma will be required to take in the University at least one subject during their first year, two during their second and two during their third.

An examination will be held at the end of each year, and a candidate must normally pass each examination before being allowed to proceed to the following year. The diploma will be awarded to candidates who have complied with the attendance regulations and passed the first, second and third year examinations. It will be awarded with distinction to candidates of outstanding merit.

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 head of the department of English literature, or the head of the department 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:

- A. Editorial and scholarly method
Bibliography.
- B. 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
 - Palæography
 - Contemporary English literature*
 - American literature
 - Australian or Canadian or New Zealand or South African literature
 - Contemporary English language
 - English phonetics
 - English history
 - American history
 - The history of science
 - Any other course (subject to the approval of the head of the department concerned).
- C. An exercise in research on a subject in literature or language to be approved by the head of the department of English literature or the head of the department of English language.

*Only available to candidates whose native language is not English.

Note: The course in A will normally be covered in one term.

The courses in B 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 C 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.

THE GRADUATE CERTIFICATE IN EDUCATION

Candidates for the graduate certificate in education must be graduates of some university in the United Kingdom or must have obtained such other academic qualifications as shall be approved by the Senate of the University.

The session for candidates reading for the graduate certificate in education begins in mid-September and ends at the close of the University session. The course is both theoretical and practical. There are three periods of teaching practice during the year, together lasting for at least twelve weeks. Visits are also paid to schools of different types and, from time to time, to other places of educational interest.

Lecture courses are provided as follows:

1. General courses

- (a) The theory of education
- (b) Educational psychology
- (c) The history of the educational system of England and Wales
- (d) The sociological bases of education.

Courses are provided on methods of teaching the various school subjects. Candidates are required to take any two of these method courses. For candidates taking a course in methods of teaching English a reading test will form part of the examination.

2. Special courses

- (a) Education and society
- (b) Educational psychology
- (c) Comparative education
- (d) History of education in Great Britain before State intervention
- (e) Introduction to philosophy
- (f) Examinations in secondary education
- (g) The secondary school

3. Practical courses

- (a) Art
- (b) Crafts
- (c) Music
- (d) Drama
- (e) Physical activities

4. Optional courses

- (a) Elementary English method
- (b) Elementary mathematics method.

These courses (a) and (b) are designed to help candidates who are not qualified in these subjects but who might be called upon to teach them as non-specialists in secondary modern schools.

Candidates are expected to attend all the courses in section 1; in section 2, courses (a) or (b) or (c) or (d) or (e) or (f) and (g), and one course from section 3. The courses in section 4 are optional.

Courses in voice and speech training are provided for all candidates.

A special course in the coaching of games and athletics may be taken as part of the course for the graduate certificate in education. The course is limited to a small number of selected candidates. Further particulars may be obtained from the head of the department of physical education.

Candidates for the graduate certificate must submit by May 1 *either* 1. an essay of approximately 12,000 words *or* 2. three short essays *or* 3. some other comparable piece of work (approved by the method tutor). In each case the work would normally deal with methods of teaching a particular subject or subjects. The written examination takes place in June. In order to qualify for the graduate certificate candidates must satisfy the examiners in the written examination, including the essay or its alternatives, and in practical teaching.

The list of successful candidates will be published in two divisions. The names in each will be placed in alphabetical order. A mark of distinction may be awarded to candidates who achieve a sufficiently high standard in the written examination and a mark of commendation to those who achieve a sufficiently high standard in practical teaching.

The graduate certificate will not be issued until the candidate has passed in both the written and the practical parts of the examination; but a candidate failing in one part only may, on the recommendation of the examiners, be allowed to present that part again at a subsequent date.

Graduate students who are successful in this examination will be recommended by the Institute of Education of the University 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 or who have not been eligible to receive such a certificate, to be considered for recommendation by the Board of the Institute 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, Leeds 2.

GRADUATE CERTIFICATE IN EDUCATIONAL STUDIES

Candidates for the graduate certificate in educational studies must be graduates of a university in the United Kingdom or of another approved university or must possess academic qualifications approved by the Senate as equivalent.

Candidates must also have pursued and successfully completed a course of initial training as teachers in either this University or another approved university or have qualifications which are approved by the Senate as equivalent.

Candidates, since graduation or since obtaining qualified teacher status, must have had at least three years' experience either in approved full-time service as teachers in schools, or in some other approved work.

Candidates must pursue a course of full-time study extending over not less than one academic year.

All candidates shall attend the following courses, which will normally be covered in one year, and must satisfy the examiners in the examinations and other tests prescribed:

- (a) Theory of education
- (b) Educational psychology
- (c) Sociology of education
- (d) The educational inheritance and the organisation of education in selected countries. (At present the selected countries are India and Pakistan.)

Candidates shall also attend and will be examined in such of the following courses as may be prescribed by the head of the department of education, these courses being normally covered in two terms:

- (e) The teaching of English as a foreign language
- (f) History of the educational system of England and Wales
- (g) Methods of teaching a selected school subject
- (h) Education and society
- (i) Comparative education
- (j) History and theory of science.

Candidates are required to submit by 1 May an essay of approximately 12,000 words on a topic approved by the head of the department. The topic must normally be approved before the end of the first term. This essay will be regarded as part of the written examination.

The list of successful candidates will be published in two divisions. The names in each will be placed in alphabetical order.

In exceptional circumstances, upon recommendation by the head of the department, and by permission of the Board of the Faculties of Arts, Economic and Social Studies and Law, candidates may extend their studies and may become candidates for the degree of Master of Education.

COURSES IN THE FACULTY OF ARTS

The following pages give information concerning courses in subjects in the Faculty. The information is arranged in the traditional order of subjects and an indication is given of the degrees or other qualifications for which the courses are normally attended. Enquiries should be addressed to the sub-dean of the Faculties of Arts, Economic and Social Studies and Law, to the tutor of women students or to the head of the appropriate department.

The name of each course is given first, then the year of the student's career in which the course is normally attended followed by the days on which and, where sufficiently firmly established, the hours at which lectures are normally given. There is a brief indication of the content of the course and, finally, where appropriate, particulars of the examination set on the subject matter. The scope of many examinations is, however, often wider than that of any one course.

GREEK

For the degrees of Bachelor of Arts and Bachelor of Science in general studies

GREEK; ONE-YEAR COURSE

[1]

First year; 4 hours a week at times to be arranged.

Prescribed books; unprepared translation; prose composition.

Examination: 2 papers.

GREEK; TWO-YEAR COURSE

[2]

Second and 3rd years; 4 hours a week at times to be arranged.

Prescribed books; unprepared translation; prose composition.

Examination: 3 papers.

*For the degree of Bachelor of Arts in special studies**

PROSE COMPOSITION

[3]

First, 2nd and 3rd years; 1st year, 1 hour a week at times to be arranged;
2nd and 3rd years, tutorially.

Examination: 1 paper each year.

UNSEEN TRANSLATION

[4]

First, 2nd and 3rd years; 1st year, 1 hour a week at times to be arranged;
2nd and 3rd years, tutorially.

Examination: 1 paper each year.

THE GREEK TRADITION

[5]

First year (half); 2 hours a week at times to be arranged.

An introduction to the history of Greek scholarship.

* Owing to pressure of numbers, courses 5 to 12 prescribed for the 1st and 2nd years will be given only once in each two-year period.

COURSES

- SELECTIONS FROM THE ORATORS [6]
 First year (half); 2 hours a week at times to be arranged.
 Study of prescribed texts with special attention to Demosthenes, *De Corona*.
- THE EPIC [7]
 First year (half); 2 hours a week at times to be arranged.
 Study of prescribed texts with special attention to selected books of the *Iliad*.
- DRAMA 1 [8]
 First year (half); 2 hours a week at times to be arranged.
 Study of one play each of Sophocles and Euripides with special attention to the first.
- LYRIC AND ELEGIAC POETRY [9]
 Second year (half); 2 hours a week at times to be arranged.
 Study of selected passages from the *Oxford Book of Greek Verse*.
- THE HISTORIANS [10]
 Second year (half); 2 hours a week at time to be arranged.
 Study of prescribed books with special attention to one book of Thucydides.
- DRAMA 2 [11]
 Second year (half); 2 hours a week at times to be arranged.
 Study of one play each of Aeschylus and Aristophanes with special attention to the second.
- THE PHILOSOPHERS 1 [12]
 Second year (half); 2 hours a week at times to be arranged.
 Study of Xenophon, *Memorabilia*, Books 1 to 3 and a dialogue of Plato with special attention to the latter.
- THE PHILOSOPHERS 2 [13]
 Third year (half); 2 hours a week at times to be arranged.
 Study of Plato, *Republic*.
- ALEXANDRINE POETRY [14]
 Third year (half); 2 hours a week at times to be arranged.
 Study of prescribed passages from Apollonius Rhodius, Callimachus and Theocritus with special attention to the third.
- PINDAR [15]
 Third year (half); 2 hours a week at times to be arranged.
 Study of prescribed selections from the *Odes* of Pindar.
- LITERARY CRITICISM [16]
 Third year (half); 2 hours a week at times to be arranged.
 Study of Aristotle, *Poetics*.

LATIN

LATIN

For the degrees of Bachelor of Arts and Bachelor of Science in general studies

LATIN; ONE-YEAR COURSE

First year; Monday and Friday, 10 to 11; either Tuesday, 11 to 12 and Wednesday, 10 to 11, or Thursday, 10 to 11 and Friday, 3 to 4.

Prescribed books; unprepared translation; prose composition; outlines of Roman political institutions.

Examination: 2 papers of 3 hours each and 1 paper of 2 hours.

LATIN; TWO-YEAR COURSE

Second and 3rd years; 2nd year, Monday, Tuesday, Wednesday, Friday, 12 to 1; 3rd year, Tuesday, Wednesday, 12 to 1; Monday, Friday, 3 to 4.

Prescribed books, unseen translation, prose composition, outlines of Latin literature, outlines of Roman social institutions.

Examination: 3 papers of 3 hours each and 1 paper of 2 hours.

For the degree of Bachelor of Arts in special studies

CLASSICS

LATIN WITH GREEK

LATIN

} FIRST-YEAR COURSE

First year; at times to be arranged.

Prescribed books, unseen translation, prose composition, history of Latin literature.

CLASSICS; SECOND-YEAR COURSE

Second year; Monday, Friday, 12 to 1 and at times to be arranged.

Prescribed books, unseen translation, prose composition, history of Latin literature, special subject if Latin.

LATIN WITH GREEK; SECOND-YEAR COURSE

Second year; Monday and Friday, 12 to 1 and at times to be arranged.

Prescribed books, unseen translation, prose composition, history of Latin literature, special subject if Latin, additional prescribed books.

LATIN; SECOND-YEAR COURSE

Second year; Monday, Friday, 12 to 1 and at times to be arranged.

Prescribed books, unseen translation, prose composition, history of Latin literature, special subject, additional prescribed books, development of the Latin language.

CLASSICS; THIRD-YEAR COURSE

Third year; Monday, Friday, 12 to 1 and at times to be arranged.

Prescribed books, unseen translation, prose composition, special subject if Latin, Roman history if chosen.

Examination: 5 papers, or 7 papers if Latin special subject and Roman history are taken.

COURSES

LATIN WITH GREEK; THIRD-YEAR COURSE

Third year; Monday, Friday, 12 to 1 and at times to be arranged.

Prescribed books, unseen translation, prose composition, additional prescribed books, special subject if Latin, Roman history if chosen.

Examination: 6 papers, or 8 papers if Latin special subject and Roman history are taken.

LATIN; THIRD-YEAR COURSE

Third year; Monday, Friday, 12 to 1 and at times to be arranged.

Prescribed books, unseen translation, prose composition, additional prescribed books, development of the Latin language, special subject, Roman history.

Examination: 9 papers.

SEMITIC LANGUAGES AND LITERATURES

For the degrees of Bachelor of Arts and Bachelor of Science in general studies

HEBREW; ONE-YEAR COURSE

First year; 3 hours a week at times to be arranged.

Biblical Hebrew only (the grammar of biblical Hebrew and prescribed texts of the Hebrew bible) Israelite history and archæology.

Examination: 2 papers.

ARABIC; ONE-YEAR COURSE

First year; 4 hours a week at times to be arranged.

Elementary Arabic grammar, prescribed texts from Arabic literature, Arabic history and institutions.

Examination: 2 papers.

ARAMAIC AND SYRIAC; ONE-YEAR COURSE

First year; 3 hours a week at times to be arranged.

Elementary Syriac grammar, prescribed texts from the Peshitta (Syriac) New Testament, and the Aramaic portions of the Old Testament (parts of the books of Daniel and Ezra), with illustrations from other Aramaic dialects.

Examination: 2 papers.

HEBREW; TWO-YEAR COURSE

Second and 3rd years; 4 hours a week at times to be arranged.

Hebrew texts from the Bible, Mishnah and (a) Apocrypha or (b) medieval and modern literature; Israelite and Jewish history, archæology and religion.

Examination: 4 papers.

ARABIC; TWO-YEAR COURSE

Second and 3rd years; 5 hours a week at times to be arranged.

Quranic texts; selections of poetry; Hadith literature; Annals; Quranic commentary and Arabic linguistic works, history, institutions and religion.

Examination: 4 papers and an oral examination.

For the degree of Bachelor of Arts in special studies

SPECIAL STUDIES IN SEMITIC LANGUAGES AND LITERATURES

First, 2nd and 3rd years; at times to be arranged.

Biblical, apocryphal, rabbinic, medieval and modern Hebrew; either biblical, non-biblical and targumic Aramaic, and Syriac language and literature or Arabic language and literature, history and institutions, ancient and modern classical; comparative Semitic philology. Optional advanced Syriac, or advanced Arabic, or advanced medieval Hebrew, or Greek and papyri, or advanced comparative Semitic philology and epigraphy, or Palestinian archæology in the 3rd year.

For the diploma in Hebrew

HEBREW DIPLOMA COURSE

First and 2nd 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 the teaching of Hebrew

HEBREW TEACHING CERTIFICATE COURSE

Usually after taking the diploma in Hebrew; at times to be arranged.

Biblical and post-biblical Hebrew; history of Jewish education; theory of education (in the department of education), and teaching practice.

For the certificate in Arabic

ARABIC CERTIFICATE COURSE

First and 2nd 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.

ENGLISH LITERATURE

For the degrees of Bachelor of Arts and Bachelor of Science in general studies

ENGLISH G 1 A; ONE-YEAR COURSE

First year; Wednesday, 11 to 12 and a fortnightly tutorial class at times to be arranged.

Contemporary literature.

Examination: 1 paper.

ENGLISH G 2 A AND G 3 A; TWO-YEAR COURSE

Second and 3rd years; Monday and Friday, 11 to 12 and a weekly tutorial class at times to be arranged.

In alternate years: *either* (a) Chaucer, the age of Shakespeare and the 17th century *or* (b) 1700 to 1920.

Examination: 2 papers.

COURSES

For the degree of Bachelor of Arts in special studies

ENGLISH S 1 A

First year; Wednesday and Friday, 11 to 12 and a weekly tutorial class at times to be arranged.

Selected texts in poetry and drama.

Examination: 2 papers.

ENGLISH S 1 (schemes A and C, see pages 305 and fol.)

Second or 3rd year; Tuesday, 12 to 1.

English poetry from Skelton to the present day.

Examination: 1 paper.

ENGLISH S 2 (schemes A and C)

Second and 3rd years; Tuesday, 11 to 12.

The development of the novel with selected texts.

Examination: 1 paper.

ENGLISH S 3 (schemes A and C)

Second and 3rd years; Monday, 12 to 1

The drama.

Examination: 1 paper.

ENGLISH S 4 (schemes A, B and C)

Second year (2nd and 3rd years for scheme B candidates); Thursday, 2 to 3.

A special period of literature. The period for 1960-61 will be 1702-27.

Examination: 1 paper.

ENGLISH S 5 (schemes A, B and C)

Third year; Wednesday, 11 to 12.

Shakespeare.

Examination: 1 paper.

ENGLISH S 6 (schemes A and C)

Second and 3rd years; Friday, 11 to 12.

Literary criticism.

ENGLISH S 7 (schemes A, B and C)

Second and 3rd years; at times to be arranged.

Tutorial classes on matter in the various courses of lectures.

Examination: 1 paper.

ENGLISH S 8 (schemes A and C)

Third year; at times to be arranged.

Study of a special author. The author chosen for 1960-61 will be George Eliot for novel students and Ibsen for drama students.

ENGLISH LITERATURE

ENGLISH S 9 (scheme C)

Second year; Thursday, 11 to 12.

A study of Milton and his time.

Examination: 1 paper.

ENGLISH S 10 (scheme C)

Second year; Monday, 11 to 12.

A series of lectures on general literary subjects.

ENGLISH S 11 (schemes A and C)

Second year; Tuesday, 12 to 1.

The development of prose style.

Examination: 1 paper.

ENGLISH S 12 (scheme C)

Second year; Friday, 3 to 4

Practical drama.

ENGLISH LANGUAGE AND MEDIEVAL LITERATURE

For the degrees of Bachelor of Arts and Bachelor of Science in general studies

ENGLISH G 1 B; ONE-YEAR COURSE

First year; Monday and alternate Fridays, 11 to 12.

English language (Old English).

Examination: 1 paper.

ENGLISH G 2 B AND G 3 B; TWO-YEAR COURSE

Second year; Monday, 3 to 4, Tuesday and Thursday, 10 to 11; 3rd year,

Monday and Tuesday, 11 to 12, Wednesday, 10 to 11.

English language and medieval English literature.

For the degree of Bachelor of Arts in special studies

ENGLISH S 1 B

First year; Monday and Friday, 3 to 4, Thursday, 11 to 12.

An elementary study of English phonetics, and of the language, literature and history of the Old English period.

Examination: 2 papers.

ENGLISH S 16 (scheme A, see pages 305 and fol.)

Second and 3rd years; 1 hour a week at a time to be arranged.

History of the language.

Examination: 1 paper.

ENGLISH S 17 (scheme B)

Second year; Monday and Wednesday, 11 to 12; 3rd year, Wednesday and

Thursday, 10 to 11.

English philology.

Examination: 1 paper.

COURSES

ENGLISH S 18 (schemes A and B)

Second year; Thursday, 10 to 11; 3rd year, Monday, 10 to 11.

Old English texts and literature with special study of *Beowulf*.

Examination: 1 paper.

ENGLISH S 19 (scheme B)

Second year; Monday, 10 to 11.

Middle English with special study of Sisam, *Fourteenth Century Verse and Prose*.

ENGLISH S 20 (scheme B)

Third year; Monday, 2 to 3, Thursday, 3 to 4.

Middle English texts and literature with special study of *Sir Gawain and the Green Knight* and *The Wakefield Pageants in the Towneley Cycle* (ed. A. C. Cawley).

Examination: 1 paper.

ENGLISH S 21 (scheme A)

Second year; Monday, 10 to 11; 3rd year, Monday, 2 to 3, Thursday, 3 to 4.

Middle English texts and literature.

Examination: 1 paper.

ENGLISH S 22 (scheme B)

Second year; Tuesday, 2 to 3.

Early Middle English texts with special study of Dickins and Wilson, *Early Middle English Texts*.

ENGLISH S 23 (scheme C)

Second and 3rd years; Monday, 10 to 11, Wednesday, 11 to 12.

Chaucer and Middle English.

Examination: 1 paper.

ENGLISH S 24 (schemes A, B and C)

Second or 3rd years; Wednesday, 11 to 12.

Chaucer.

Examination: 1 paper.

This course is given in alternate years. It will be given in the session 1960-61.

ENGLISH S 25 (scheme B)

Second and 3rd years; 1 hour a week at times to be arranged.

Gothic and Germanic philology.

Examination: 1 paper.

ENGLISH S 26 (scheme B)

Second year; Tuesday and Thursday, 9 to 10; 3rd year, Tuesday and Thursday, 2 to 3.

Old Icelandic.

Examination: 1 paper.

ENGLISH S 27 (scheme B)

Second year, 2 hours a week at times to be arranged; 3rd year, 1 hour a week at times to be arranged.

Modern Icelandic.

Examination: 1 paper.

ENGLISH S 28 (scheme B)

Second and 3rd years; 1 hour a week at times to be arranged.

English dialectology.

ENGLISH S 29 (scheme B)

Second year, 3 hours a week at times to be arranged; 3rd year, 1 hour a week at times to be arranged.

General and English phonetics.

Examination: 1 paper.

ENGLISH S 30 (scheme B)

Second year, Tuesday, 10 to 11; 3rd year, Tuesday, 3 to 4.

Anglo-Saxon art and archæology.

Examination: 1 paper.

ENGLISH S 31 (scheme B)

Second and 3rd years; 2 hours a week at times to be arranged.

Medieval Welsh.

Examination: 1 paper.

ENGLISH S 32 (scheme B)

Second and 3rd years; 1 hour a week at times to be arranged.

English palæography and bibliography.

Examination: 1 paper.

ENGLISH S 33 (scheme B)

Second and 3rd years; at times to be arranged.

Old Saxon and Old High German.

Examination: 1 paper.

ENGLISH S 34 (scheme B)

Second and 3rd years; at times to be arranged.

Old French.

Examination: 1 paper.

ENGLISH S 35 (scheme B)

Second and 3rd years; at times to be arranged.

Latin philology.

Examination: 1 paper.

ENGLISH S 36 (scheme B)

Second and 3rd years; at times to be arranged.

Greek philology.

Examination: 1 paper.

COURSES

ENGLISH S 37 (schemes A and B)

Second and 3rd years; 1st terms only, 1 hour a week at times to be arranged.
Essays and discussions; 2nd year, Old English literature; 3rd year, Middle English literature.

ICELANDIC

For the degrees of Bachelor of Arts and Bachelor of Science in general studies

ICELANDIC; ONE-YEAR COURSE

First year; 3 hours a week at times to be arranged.

An introduction to modern Icelandic; grammar, prose composition; conversation; modern conditions and institutions.

Examination: 2 papers and an oral examination.

ICELANDIC; TWO-YEAR COURSE

Second year; 3 hours a week at times to be arranged.

Prescribed modern Icelandic texts; prose composition; conversation; institutions of the 19th and 20th centuries. Introduction to Old Icelandic; grammar; prescribed texts; history and institutions.

Examination: 3 papers and an oral examination.

PHONETICS

For the degrees of Bachelor of Arts and Bachelor of Science in general studies

PHONETICS; ONE-YEAR COURSE

[1]

First year; 3 hours a week at times to be arranged.

The mechanism of utterance; classification of speech sounds; elementary phonetic theory; the phonetics of English; ear training and gramophone listening.

Examination: 2 papers, an oral examination, and practical tests including phonetic dictation.

For the degree of Bachelor of Arts in special studies in English, scheme B

PHONETICS

[2]

Second year, Monday, 3 to 4, Thursday, 12 to 1 and 3 to 4; 3rd year, Monday, 11 to 12; and private listening periods.

General phonetic theory; the phonetics of English; ear training and study of gramophone recordings.

Examination: 1 paper, an oral examination, and practical tests including phonetic dictation.

For the degree of Bachelor of Arts in general and special studies

THE PHONETICS OF GERMAN

[3]

First or 2nd years; Thursday, 2 to 3 and private listening period.

Elementary phonetic theory; the phonetic structure of German; demonstration of German sounds; ear training; study of gramophone records of spoken German; phonetic transcription and dictation. Optional practical classes (2nd and 3rd terms) for instruction in German pronunciation, with criticism of students' own recordings of spoken German.

Examination: Half of one paper ($1\frac{1}{2}$ hours) and a practical examination including phonetic dictation.

THE PHONETICS OF ITALIAN

[4

First year; Thursday, 4 to 5, or Friday, 10 to 11; and private listening periods. Elementary phonetic theory; demonstration of Italian sounds; ear training; practical instruction in the pronunciation of Italian; study of gramophone records of spoken Italian.

Examination: Half of one paper ($1\frac{1}{2}$ hours) and an oral test.

THE PHONETICS OF RUSSIAN

[5

First or Introductory years; one hour a week at times to be arranged and private listening period.

Elementary phonetic theory; demonstration of Russian sounds; ear training; practical instruction in the pronunciation of Russian; study of gramophone records of spoken Russian.

Examination: Half of one paper ($1\frac{1}{2}$ hours) and an oral test.

For the degree of Bachelor of Arts in general studies

THE PHONETICS OF FRENCH

[6

Second year; second and third terms only, one hour a week at times to be arranged and private listening period.

Introductory lectures on the mechanism of utterance, the classification of speech sounds, and elementary phonetic theory; demonstration of French sounds; ear training; practical classes on the pronunciation of French; study of gramophone records.

Examination: A departmental oral test.

For the degree of Bachelor of Arts in special studies

THE PHONETICS OF FRENCH 1

[7

First year, Wednesday 9 to 10 (first half of session); 2nd and 3rd terms, one hour a week practical classes at times to be arranged and private listening period.

The mechanism of utterance; classification of speech sounds; elementary phonetic theory; the phonetic structure of French; demonstration of French sounds; ear training.

2nd and 3rd terms: practical instruction in the pronunciation of French; study of gramophone records; criticism of students' own recordings of spoken French; phonetic transcription and dictation; ear training.

Examination: 1 paper (2 hours) and a practical examination including phonetic dictation.

THE PHONETICS OF FRENCH 2

[8

Second year; 1st term; one hour a week lecture at times to be arranged and optional private listening period.

Phonetic features of connected speech including intonation.

Examination: A departmental written test and a practical examination.

THE PHONETICS OF FRENCH 3

[9

(Special Subject Option)

Third year; 1 hour a week at times to be arranged.

COURSES

The phonetics of English with particular attention to each student's own speech; regional variations in spoken French; introduction to acoustic phonetics; attention to finer points of each student's own performance in spoken French.

Examination: One paper (2 hours) and an oral examination.

THE PHONETICS OF SPANISH

[10]

First year; Tuesday, 11 to 12; and private listening period.

Elementary phonetic theory; demonstration of Spanish sounds; ear training; practical instruction in the pronunciation of Spanish; study of gramophone records of spoken Spanish.

Examination: Half of one paper (1½ hours) and an oral test.

THE PHONETICS OF PORTUGUESE

[11]

Second year (second term only); one hour a week at times to be arranged; and private listening period.

Elementary phonetic theory; the phonetic structure of Portuguese; demonstration of Portuguese sounds; ear training; practical instruction in the pronunciation of Portuguese; study of gramophone records of spoken Portuguese.

Examination: A departmental oral test.

FRENCH

For the degrees of Bachelor of Arts and Bachelor of Science in general studies

FRENCH GENERAL STUDIES FIRST YEAR

[1]

First year; Friday, 12 to 1 and one of the following: Monday, 12 to 1 or Tuesday, 9 to 10 or 3 to 4 or Wednesday, 12 to 1; and one of the following: Monday, 9 to 10, Tuesday, 9 to 10 or 3 to 4 or Wednesday, 9 to 10.

Prose [translation into French]; translation into English; literature.

Examination: 2 papers and an oral examination.

FRENCH GENERAL STUDIES SECOND YEAR

[2]

Second year; Monday, 10 to 11, Tuesday, 9 to 10, 4 to 5, Friday, 9 to 10 or 2 to 3.

Prose [translation into French]; essay in French; phonetics; literature; institutions.

Examination : 2 papers.

FRENCH GENERAL STUDIES THIRD YEAR

[3]

Third year; Monday, 9 to 10 or Tuesday, 2 to 3, Monday and Friday, 2 to 3, Tuesday, 3 to 4.

Prose [translation into French]; essay in French; translation into English; literature; institutions.

Examination: 4 papers and an oral examination.

Course 1 is the one-year course; courses 2 and 3, the two-year course.

FRENCH

Candidates who offer French as a three-year subject for a degree in general studies will normally be required to spend a period of at least one month in France or in some other French-speaking country during the long vacation of their first or second year, this period to include attendance at an approved course of study.

For the degree of Bachelor of Arts in special studies

FRENCH SPECIAL STUDIES FIRST YEAR [4]

First year; at times to be arranged.

French language and literature (translation into French; translation into English and *explication*); phonetics and Old French; general linguistics and Romance philology; history of the French language; a period or periods of French literature and thought; French history and institutions.

Examination: 6 papers and an oral examination.

FRENCH SPECIAL STUDIES SECOND YEAR [5]

Second year; at times to be arranged.

Translation into French; translation into English; *explication de textes*; history of the French language; Old French; stylistics; French history and institutions; phonetics; and three of the following: 16th-century prose, 16th-century poetry, 18th-century novel, 18th-century thought, 20th-century literature, history of French vocabulary and semantics.

Examination: 2 papers.

FRENCH SPECIAL STUDIES THIRD YEAR [6]

Third year; at times to be arranged.

Translation into French; translation into English; *explication de textes*; history of the French language; Old French; French history and institutions; 3 special subjects: (a) 19th-century novel, (b) 19th-century poetry, (c) 19th-century thought, (d) 20th-century literature, (e) 20th-century thought, (f) Provençal, (g) Romance philology, (h) contemporary French history and institutions, (i) phonetics.

Examination: 11 papers and an oral examination.

French as a Subsidiary Subject

The attention of candidates who offer French as a three-year subject for a degree in special studies is drawn to the regulations regarding the course and the examination in the second and third years. See p. 312.

SPANISH AND PORTUGUESE

For the degrees of Bachelor of Arts and Bachelor of Science in general studies

SPANISH; ONE-YEAR COURSE [1]

First year; *either* (Group A) Monday, 12 to 1; Wednesday, 12 to 1; Thursday, 4 to 5; Friday, 2 to 3; *or* (Group B) Tuesday, 2 to 3 and 4 to 5; Wednesday, 12 to 1; Thursday, 4 to 5.

Examination: 2 papers and an oral examination.

COURSES

SPANISH; TWO-YEAR COURSE

[2]

Second year, Monday and Wednesday, 9 to 10; and *either* Monday, 4 to 5 *or* Wednesday, 10 to 11; 3rd year, Wednesday, 10 to 11, Thursday, 10 to 11 and 11 to 12.

Grammar and translation; literature and prescribed books.

Examination: 2 papers and an oral examination at the end of the 2nd year; 4 papers and an oral examination at the end of the 3rd year.

SPANISH 3 X

[3]

Third year; at times to be arranged.

Courses in language and literature selected from those prescribed for the 2nd year of the scheme of study for the degree of Bachelor of Arts in special studies in Spanish.

Examination: 4 papers and an oral examination.

The course is intended for candidates who take course number 2 in their 1st and 2nd years.

Candidates who offer Spanish as a three-year subject for a degree in general studies will normally be required to spend a period of at least one month in Spain during the long vacation of their first or second year, this period to include attendance at an approved course of study.

PORTUGUESE; ONE-YEAR COURSE

[4]

First year; at times to be arranged.

Grammar and translation; reading of and commentary on prescribed books; history of Portugal.

Examination: 2 papers and an oral examination.

PORTUGUESE; TWO-YEAR COURSE

[5]

Second and 3rd years; at times to be arranged.

Grammar and translation; literature and prescribed books chosen alternately from the classical or modern period. Brazilian texts may be studied.

Examination: 2 papers and an oral examination at the end of the 2nd year; 4 papers and an oral examination at the end of the 3rd year.

PORTUGUESE 3 X

[6]

Third year; at times to be arranged.

Advanced modern language study with special periods of literature or prescribed texts.

Examination: 4 papers and an oral examination.

The course is intended for candidates who take course number 5 in their 1st and 2nd years.

For the degree of Bachelor of Arts in special studies

SPANISH S 1

[7]

First year; Monday, 9 to 10; Tuesday, 10 to 11 *or* Thursday, 3 to 4; Tuesday, 11 to 12 and 12 to 1; Wednesday, 9 to 10; Friday, 3 to 4.

Translation, modern literature, philology, phonetics, civilisation and geography of Spain.

Examination: 5 papers and an oral examination.

SPANISH

SPANISH S 2

[8]

Second year; at times to be arranged.

Translation; medieval and Golden Age literature; civilisation.

Examination: 2 papers.

SPANISH S 3

[9]

Third year; at times to be arranged.

Translation; Hispanic American literatures and civilisations; Góngora and Quevedo; Unamuno; and various optional courses.

Examination: 9 papers and an oral examination.

Spanish as a Subsidiary Subject

The attention of candidates who offer Spanish as a three-year subject for a degree in special studies is drawn to the regulation regarding the examination in the second year. See p. 314.

For the diploma in Spanish

SPANISH D 1

[10]

First year; not less than 2 hours a week at times to be arranged.

Grammar, translation and composition; Spanish history and civilisation from 1500 to 1700 or from 1800 to 1960; four prescribed literary texts.

Examination: 2 papers and an oral examination.

SPANISH D 2

[11]

Second year; not less than 2 hours a week, at times to be arranged.

Grammar, translation and composition; phonetics; Spanish literature from 1500 to 1700 or from 1800 to 1960; eight prescribed texts.

Examination: 3 papers and an oral examination.

ITALIAN

For the degrees of Bachelor of Arts and Bachelor of Science in general studies

ITALIAN; ONE-YEAR COURSE

First year; 4 hours a week at times to be arranged.

Grammar; composition; Italian literature and drama; prescribed texts; Italian civilisation.

Examination: 2 papers and an oral examination.

ITALIAN; TWO-YEAR COURSE

Second and 3rd years; 4 hours a week at times to be arranged.

Composition; Italian literature and drama to 1400 and *either* from 1748 to 1837 or from 1450 to 1595; prescribed texts from these periods; Italian civilisation; a special subject selected from [for B.A.] the literary periodical in 18th-century Italy and 18th-century Italian comedy with special reference to the work of Goldoni; [for B.Sc.] Galilei, *Saggiatore* or literary writings; scientific themes in 18th-century Italian literature; and the plays of Luigi Pirandello.

Examination: 4 papers and an oral examination.

COURSES

[The period for examination in June, 1961, will be 1450-1595.]

Candidates who offer Italian as a three-year subject for a degree in general studies 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.

For the degrees of Bachelor of Arts in textile design and Bachelor of Science in general studies

ITALIAN; TWO-YEAR COURSE

First and 2nd years; 4 hours a week at times to be arranged.

1st year, grammar; composition; Italian literature and drama; prescribed texts; Italian civilisation. 2nd year, composition; Italian literature and drama to 1400 or 1450-1595 or 1748-1837; prescribed texts from the period chosen; Italian civilisation; a special subject selected from—Galilei, *Saggiatore* or literary writings; scientific themes in 18th-century Italian literature; the plays of Carlo Goldoni.

Examination: 1st year, 2 papers and an oral examination; 2nd year, 2 papers and an oral examination.

[The prescribed period for the 2nd-year examination in June, 1961, will be 1450-1595.]

For the degree of Bachelor of Arts in special studies

ITALIAN S 1

First year; 6 hours a week at times to be arranged.

Composition; conversation; history of the language; history of literature; drama; prescribed texts; Italian civilisation.

Examination: 5 papers and an oral examination.

ITALIAN S 2

Second year; 8 hours a week at times to be arranged.

As for Italian S 1 and special subject.

ITALIAN S 3

Third year; 8 hours a week at times to be arranged.

As for Italian S 1 and special subject.

Examination: 8 papers, an oral examination and the presentation of a dissertation.

GERMAN

For the degrees of Bachelor of Arts and Bachelor of Science in general studies

GERMAN; ONE-YEAR COURSE

First year; Monday, 11 to 12 or Wednesday, 10 to 11; Tuesday, 11 to 12, 3 to 4; Friday, 2 to 3.

Prescribed texts; syntax and composition; German conversation.

Examination: 2 papers and an oral examination.

GERMAN

GERMAN; TWO-YEAR COURSE

Second and 3rd years; Monday and Wednesday, 12 to 1, Thursday, 2 to 3 (2nd year only), Friday, 4 to 5. Conversation groups by arrangement (3rd year only).

Composition; phonetics; periods of literature; prescribed texts; German conversation.

Examination: 4 papers, a practical test in phonetics and an oral examination.

Candidates who offer German as a three-year subject for a degree in general studies will normally be required to spend a period of at least one month in Germany or some other German-speaking country during the long vacation of their first or second year, this period to include attendance at an approved course of study.

For the degree of Bachelor of Arts in special studies

GERMAN SPECIAL STUDIES FIRST YEAR

First year; Monday, 12 to 1, Tuesday, 11 to 12, Thursday, 2 to 3, 4 to 5, Friday, 9 to 10. Conversation groups by arrangement.

Composition; essays; conversation; phonetics; medieval and modern prescribed texts; periods of literature; German life and thought.

Examination: 4 papers and an oral examination.

MODERN LANGUAGES AND LITERATURES FIRST YEAR (GERMAN)

Times, content and examination as for German special studies first year.

GERMAN SPECIAL STUDIES SECOND AND THIRD YEARS (scheme A)

Second and 3rd years; Monday, 4 to 5 (3rd year), Tuesday, 10 to 11, 12 to 1, 4 to 5; Wednesday, 11 to 12 (2nd year); Thursday 12 to 1; Friday, 12 to 1, 3 to 5. Times to be arranged: conversation and essay groups, and, in third year, special subjects.

Composition; essays, conversation; medieval and modern texts; periods of literature; German life and thought; special emphasis on German literature.

Examination: 9 papers, or 8 papers and an extended essay, and an oral examination.

GERMAN SPECIAL STUDIES SECOND AND THIRD YEARS (scheme B)

Second and 3rd years; Monday, 3 to 4, 4 to 5 (3rd year), Tuesday, 9 to 10, 12 to 1 (3rd year), 10 to 11 (2nd year), 4 to 5, Wednesday, 11 to 12 (2nd year), Thursday, 9 to 10, 12 to 1; Friday, 3 to 5. Conversation and essay groups and one other hour a week by arrangement.

Composition: essays, conversation; history of the German language; medieval and modern texts; periods of literature; German life and thought; special emphasis on German and Germanic philology and medieval literature.

Examination: 9 papers and an oral examination.

COURSES

MODERN LANGUAGES AND LITERATURES SECOND AND THIRD YEARS (GERMAN, scheme A)

Second and 3rd years; Monday, 4 to 5 (3rd year), Tuesday, 10 to 11, 12 to 1, Wednesday, 11 to 12 (2nd year), Thursday, 12 to 1, Friday, 12 to 1, 3 to 5.

Conversation and essay groups by arrangement.

As for German special studies second and third years (scheme A).

Examination: 6 papers and an oral examination.

MODERN LANGUAGES AND LITERATURES SECOND AND THIRD YEARS (GERMAN, scheme B)

Second and 3rd years; Monday, 4 to 5 (3rd year), Tuesday, 9 to 10 (3rd year), 10 to 11 (2nd year), Wednesday, 11 to 12 (2nd year), Thursday, 9 to 10, 12 to 1, Friday, 3 to 5. Conversation and essay groups by arrangement.

As for German special studies second and third years (scheme B).

Examination: 6 papers and an oral examination.

German as a Subsidiary Subject

The attention of candidates who offer German as a three-year subsidiary subject for a degree in special studies is drawn to the regulations regarding the course and the examination in the second and third years. See p. 317.

Other courses

ELEMENTARY GERMAN FOR ARTS STUDENTS

Any year; 2 hours a week at times to be arranged.

Outlines of German grammar; prescribed texts. The course is intended for arts students who wish to acquire a reading knowledge of German.

ELEMENTARY GERMAN FOR SCIENCE STUDENTS

See courses in the Faculty of Science, p. 461.

RUSSIAN

For the degree of Bachelor of Arts in general studies

RUSSIAN; ONE-YEAR COURSE

First year; at times to be arranged.

Grammar, reading and translation.

Examination: 1 paper and an oral examination.

RUSSIAN; TWO-YEAR COURSE

Second and 3rd years; at times to be arranged.

Language, prescribed texts, outlines of Russian history and literature.

Examination: 3 papers and an oral examination.

For the degree of Bachelor of Arts in special studies

RUSSIAN SPECIAL STUDIES I

First year; at times to be arranged.

Language, outlines of history.

Examination: 2 papers and an oral examination.

RUSSIAN

RUSSIAN SPECIAL STUDIES 2

First or 2nd years; at times to be arranged.

Russian language, prescribed literary texts, Russian literature and history.

Examination: 3 papers and an oral examination.

RUSSIAN SPECIAL STUDIES 3

Second or 3rd years; at times to be arranged.

Russian language, prescribed literary texts, Russian literature and history,
history of the Russian language, special subjects.

RUSSIAN SPECIAL STUDIES 4

Third or 4th years; at times to be arranged.

Russian language, prescribed literary texts, Russian literature and history,
history of the Russian language, special subjects.

Examination: 10 papers and an oral examination.

MODERN LANGUAGES AND LITERATURES (RUSSIAN)

First, 2nd, 3rd and 4th years; at times to be arranged.

As for special studies courses 1, 2, 3 and 4.

Examination: 7 papers and an oral examination.

For the degree of Bachelor of Science in general and special studies

For details of RUSSIAN FOR SCIENCE STUDENTS INTRODUCTORY AND
GENERAL (S) COURSE, see courses in the Faculty of Science, p. 462.

For the certificate in Russian

RUSSIAN CERTIFICATE COURSE

First and 2nd years; at times to be arranged.

Russian grammar, reading and translation.

Examination: 2 papers of 3 hours each.

HISTORY

For the degrees of Bachelor of Arts and Bachelor of Science in general studies

HISTORY; ONE-YEAR COURSE

Examination: 2 papers on:

either Outlines of Greek and Roman History

or The general history of Western Europe from c. A.D. 500.

HISTORY; TWO-YEAR COURSE

Examination: 2 papers selected from:

1. Greek history 478-362 B.C.

2. Roman history 133-44 B.C.

3. The history of Britain from the earliest times to 1399

4. The history of Britain 1399-1688

5. The history of Britain from 1688

COURSES

1 paper selected from:

1. Roman Britain
2. The development of medieval government
3. The church in the later Middle Ages
4. The history of Europe, 1648-1789
5. France and Europe, 1789-1870
6. The history of the United States of America from 1783.

For the degree of Bachelor of Arts in special studies

The prescribed examinations are set out on pages 324-5.

PHILOSOPHY

For the degrees of Bachelor of Arts in general and special studies, and of Bachelor of Science in general studies

PHILOSOPHY 1

First year; Monday, 4 to 5.
Elements of logic.

PHILOSOPHY 2

First year; Tuesday, 4 to 5, Thursday, 9 to 10.
Introduction to philosophy.

PHILOSOPHY 3

Second or 3rd year; 2 hours a week at times to be arranged.
Ancient philosophy.

PHILOSOPHY 4

Second or 3rd year; 2 hours a week at times to be arranged.
Philosophy from Descartes to Kant.

PHILOSOPHY 5

Second or 3rd year; 2 hours a week at times to be arranged.
Ethics.

PHILOSOPHY 6

Second or 3rd year; 2 hours a week at times to be arranged.
Political and social theory from Hooker to Marx.

PHILOSOPHY 7

Second or 3rd year; 2 hours a week at times to be arranged.
Logic and philosophy of science.

PHILOSOPHY 8

Second or 3rd year; 1 hour a week at a time to be arranged.
Study of a selected philosophical classic.

PHILOSOPHY 9

Second or 3rd year; 1 hour a week at a time to be arranged.
Formal logic, including symbolic logic.

PHILOSOPHY

PHILOSOPHY 10

Second or 3rd year; 1 hour a week at a time to be arranged.
Medieval philosophy.

PHILOSOPHY 11

Second or 3rd year; 1 hour a week at a time to be arranged.
Political and social theory from Aristotle to Aquinas.

PHILOSOPHY 12

Second or 3rd year; 1 hour a week at a time to be arranged.
History of ideas in relation to English literature.

PHILOSOPHY 13

Second or 3rd year; 1 hour a week at a time to be arranged.
Contemporary philosophy.

PHILOSOPHY 14

Second or 3rd year; 1 hour a week at a time to be arranged.
Recent social philosophy.

The two-year course for the degrees in general studies will include, in the candidate's second and third years, one of courses 3 to 7 inclusive: in the third year all candidates attend in addition course 8 (prescribed book). Further courses may be taken with the approval of the head of the department of philosophy. They will normally be selected from courses 10 to 12 above, from the course entitled 'Sociological theory 2 and 3,' given in the department of social studies (see page 403), and from the courses in general and social psychology given in the department of psychology (see page 375).

HISTORY AND PHILOSOPHY OF SCIENCE

For the degrees of Bachelor of Arts and Bachelor of Science in general studies

HISTORY AND PHILOSOPHY OF SCIENCE 1

First year; Thursday, 9 to 10 (arts students), 4 to 5 (science students).
The elements of scientific method.

HISTORY AND PHILOSOPHY OF SCIENCE 2

First year; Monday and Friday, 4 to 5.
The origins of modern science.

HISTORY AND PHILOSOPHY OF SCIENCE 3

Second or 3rd years; 2 hours a week at times to be arranged.
History of scientific thought, with special reference to the period since 1500.

HISTORY AND PHILOSOPHY OF SCIENCE 4

Second or 3rd years; 2 hours a week at times to be arranged.
Logic and philosophy of science.

COURSES

HISTORY AND PHILOSOPHY OF SCIENCE 5

Second or 3rd year; 1 hour a week at a time to be arranged.
History of science set book.

GEOGRAPHY

CARTOGRAPHY

[1]

First year; Wednesday, 10 to 11; practical work, Tuesday, 2 to 5.
Use of topographical maps, with special reference to the Ordnance Survey.
Statistical mapping. The geographical study of topographical maps.
Mapping and interpretation of weather and climatic data.

CARTOGRAPHY AND TOPOGRAPHICAL SURVEYING

[2]

Second year; Monday, 2 to 5 and Thursday, 11-12
An introduction to field methods of topographical surveying: chaining, use of surveying and prismatic compasses, clinometers, hand and spirit levels, aneroid barometers, theodolites. Compilation of rectangular co-ordinates. Principles, interpretation and geographical uses of aerial photographs.

POLITICAL GEOGRAPHY

[3]

Third year; Monday, 10 to 11.
Principles of political geography; study of selected politico-geographical problems.

HISTORICAL GEOGRAPHY OF BRITAIN

[4]

Third year; at times to be arranged.
Selected studies in the historical geography of Britain.

BIO-GEOGRAPHY

[5]

Third year; at times to be arranged.
World distribution of vegetation and soil types with particular reference to Britain.

PROBLEMS OF GEOMORPHOLOGY

[6]

Third year; at times to be arranged.
Systematic geomorphology with selected studies of the geomorphology of the British Isles.

GEOGRAPHY OF PLANNING

[7]

Third year; at times to be arranged.
The scope and practices of land planning and the application of geographical concepts and techniques to the solution of its problems. References to Britain and selected foreign countries.

ADVANCED CARTOGRAPHY

[8]

Third year; at times to be arranged.
Topographical surveying, including astronomical work; advanced map compilation.

GEOGRAPHY

- PROBLEMS OF ECONOMIC GEOGRAPHY [9]
To be arranged.
- PROBLEMS OF POLITICAL GEOGRAPHY [10]
To be arranged.
- PROBLEMS OF THE GEOGRAPHY OF POPULATION [11]
To be arranged.
- DEVELOPMENT OF GEOGRAPHICAL THOUGHT [12]
Second year; Tuesday, 11 to 12.
Historical development of geographical concepts, with special reference to the growth of modern geography since the end of the 18th century.
- URBAN GEOGRAPHY [13]
Third year; Thursday, 3 to 4.
Growth, spacing, functions, and internal spatial arrangement of urban areas.
General concepts and their application to particular culture areas, notably Western Europe and North America.
- ELEMENTS OF PHYSICAL AND HUMAN GEOGRAPHY [14]
First year; Monday, 12 to 1, Thursday, 2 to 3.
The main physical characteristics and phenomena of the earth's surface, their nature and distribution; the basic concepts and elements of human geography.
- GEOMORPHOLOGY [15]
Second year; Thursday, 12 to 1.
A comprehensive course on land forms; complements the work on climate and biogeography in the first year.
- SOCIAL GEOGRAPHY [16]
Second year; Thursday, 9 to 10.
Regional variations in the growth and distribution of human groups with reference to their local economic basis. World population growth and distribution.
- CLIMATOLOGY [17]
Second year; at times to be arranged.
World air masses and pressure systems and their regional variants. Micro-climatology. Climatic changes.
- ECONOMIC GEOGRAPHY [18]
Second year; Friday, 10 to 11.
General principles of economic geography with analysis of selected examples and problems.
- GEOGRAPHY OF THE BRITISH ISLES [19]
Second year; Friday, 11 to 12.
Studies in the geography of the British Isles with special reference to their economic geography.

COURSES

GEOGRAPHY OF WESTERN EUROPE

[20]

Second year; Wednesday, 11 to 12.

Studies in the geography of Europe.

Candidates for the degrees in general studies will normally take the course in the *third* year.

GEOGRAPHY OF THE U.S.S.R.

[21]

Third year; Friday, 12 to 1.

Studies in the geography of the U.S.S.R.

GEOGRAPHY OF SOUTHERN ASIA

[22]

Third year; Tuesday, 12 to 1.

Studies in the geography of selected areas of southern Asia.

CARTOGRAPHY AND PRACTICAL WORK

[23]

First year; Tuesday *or* Thursday, 3 to 5.

Introduction to geological maps; the maps of the Ordnance Survey. Techniques in the use of topographic maps and the mapping of statistical data.

CARTOGRAPHY AND PRACTICAL WORK

[24]

Second year; Monday, 2 to 5.

Weather maps. Interpretation of air photographs. Geographic interpretation of topographical maps.

The one-year course and the Introductory course for the degrees of B.A. and B.Sc. in general studies respectively will consist of courses 13 and 22.

The two-year course for the degree of B.A. in the candidate's second year and the General course, Geography G1, for the degree of B.Sc. will consist of courses 14, 15 and 23.

The two-year course for the degree of B.A. in the candidate's third year and the General course, Geography G2, for the degree of B.Sc. will consist of courses 3 or 17 and *two* of the courses 18, 19, 20, 21.

In certain cases, with the approval of the head of the department of geography, candidates may be allowed to take in their third year any one of courses 4 to 10 in lieu of courses 18 to 21.

THEOLOGY

For the degrees of Bachelor of Arts in general and special studies and Bachelor of Science in general studies.

BIBLICAL STUDIES I

First year; Tuesday, 2 to 3, Wednesday, 12 to 1, Friday, 2 to 3.

History and religion of Israel to the beginning of the Exile with introduction to the relevant literature; introduction to the Gospels and the Acts of the Apostles; textual criticism.

Examination: 2 papers.

PHILOSOPHY AND HISTORY OF RELIGION 1

First year; Tuesday, 9 to 10, Thursday, 3 to 4, Friday, 10 to 11.

A general survey of the great living religions with special study of one religion from prescribed texts.

Examination: 2 papers.

BIBLICAL STUDIES 2 AND 3

Second and 3rd years; 2nd year, Tuesday and Wednesday, 11 to 12; 3rd year, Tuesday and Wednesday, 9 to 10, Thursday, 9 to 10 and 11 to 12.

History and religion of Israel from the Exile to A.D. 70 with an introduction to the relevant literature; introduction to the Epistles and the Apocalypse; the New Testament canon (in the 2nd year); prescribed books in Old Testament and New Testament (in the 3rd year).

Examination: 3 papers.

PHILOSOPHY AND HISTORY OF RELIGION 2 AND 3

Second and 3rd years; 2nd year, Tuesday, 12 to 1, Thursday, 3 to 4, Friday, 10 to 11; 3rd year, Tuesday, 3 to 4, Friday, 9 to 10.

The philosophical approach to religion (in the 2nd year); religious ethics with special reference to the Christian ethic (in the 3rd year).

Examination: 1 paper in 2 and 1 paper in 3.

HISTORY OF RELIGION A AND B

Second and 3rd years; Tuesday, 11 to 12, Friday, 9 to 10, or as arranged.

Second and third year candidates combine to take (a) Hinduism and (b) Islam in alternate sessions. The subject for 1960-61 is Islam.

Examination: 1 paper in (a) and 1 paper in (b).

For the degree of Bachelor of Arts in special studies

OLD TESTAMENT 1 (HEBREW)

First year; Wednesday, 10 to 11, Thursday, 11 to 12, Friday, 9 to 10.

Hebrew grammar, translation and exegesis; introduction to the Pentateuch.

Examination: 1 paper.

OLD TESTAMENT 2

Second year; Wednesday, 12 to 1 and 2 other hours.

History and religion of Israel to the beginning of the Exile with introduction to relevant literature; prescribed Old Testament texts, *either* entirely in Hebrew *or* partly in Hebrew and partly in English *or* entirely in English.

Examination: 1 paper.

OLD TESTAMENT 3

Third year; Wednesday, 11 to 12 and 2 other hours.

History and religion of Israel from the beginning of the Exile to A.D. 70 with introduction to relevant literature; prescribed Old Testament texts *either* entirely in Hebrew *or* partly in Hebrew and partly in English *or* entirely in English.

Examination: 1 paper.

COURSES

NEW TESTAMENT GREEK

First year; Tuesday, 3 to 4, Wednesday, 12 to 1, Friday, 3 to 4.
The Greek of the New Testament.

Examination: 1 paper.

NEW TESTAMENT LANGUAGE AND LITERATURE 1

Second year; Thursday, 2 to 3, Friday, 12 to 1 and 2 to 3.

Unprepared translation from the grammar and syntax of New Testament Greek; translation, criticism and exegesis of a prescribed Gospel; introduction to the Gospels and the Acts of the Apostles; textual criticism.

Examination: 1 paper.

NEW TESTAMENT LANGUAGE AND LITERATURE 2

Third year; Tuesday, 11 to 12 and 12 to 1, Friday, 10 to 11.

Unprepared translation from the Greek New Testament; translation, criticism and exegesis of a prescribed Epistle; introduction to the Epistles and Apocalypse; the New Testament canon.

Examination: 1 paper.

CHURCH HISTORY 1

Second year; Tuesday and Thursday, 11 to 12.

A selected period of church history; one of three options, (a) A.D. 70 to 313; (b) A.D. 313 to 451; (c) A.D. 1054 to 1600 or A.D. 1453 to 1845 or A.D. 1750 to the present.

Examination: 1 paper.

CHURCH HISTORY 2

Third year; Tuesday and Thursday, 10 to 11; other hours as arranged.

A further period of church history selected from the options shown for church history 1.

Examination: 1 paper.

BIBLICAL AND HISTORICAL THEOLOGY

Second and 3rd years; Tuesday, 2 to 3 and Thursday, 12 to 1.

Second and third year candidates combine to take (a) the Incarnation and the Trinity and (b) the Atonement in alternate sessions. The subject for 1960-61 is the Atonement.

Examination: 1 paper at the end of each year.

BIBLICAL STUDIES 1 S

Second year; Tuesday, 2 to 3, Wednesday, 12 to 1, Friday, 2 to 3 and one other hour.

History and religion of Israel; introduction to the Gospels and the Acts of the Apostles; New Testament Greek.

Philosophy and history of religion 1 and Philosophy and history of religion 2 and 3 or as alternative History of religion A and B, are also included in the prescribed scheme of study for the degree in special studies.

PSYCHOLOGY

PSYCHOLOGY

For the degrees of Bachelor of Arts and Bachelor of Science in general studies

PSYCHOLOGY

A one-year course; 3 hours lectures, plus 1 hour practical exercises a week.

An introduction to the descriptive study of individual development in its biological, environmental and social aspects, and to the simpler objective procedures in the investigation of emotion, perception, learning, remembering and thinking.

Examination: 2 papers of 3 hours each.

For the degree of Bachelor of Arts in special studies

The degree of Bachelor of Arts in special studies in psychology is now in abeyance; see Bachelor of Arts in combined studies in psychology and sociology (page 298) and Bachelor of Science in special studies in psychology (page 436).

For the degrees of Bachelor of Arts in general and special studies and of Bachelor of Science

PSYCHOLOGY O.I. INDUSTRIAL PSYCHOLOGY

Second or 3rd years; 1 hour a week at times to be arranged.

Introductory survey of data and techniques concerning human behaviour and experience in work-situations.

Examination: 1 paper.

This course is normally taken in conjunction with courses in industrial relations.

For the degree of Master of Arts

PSYCHOLOGY X 1

Postgraduate.

Psychological theory; philosophical aspects; biological psychology; experimental psychology; psychometrics; social psychology; epistemic theory.

Examination: 6 papers, an oral examination and a short dissertation.

For the degrees of Master of Arts and Doctor of Philosophy

PSYCHOLOGY X 2

Postgraduate.

Seminars and lectures on recent advances and methodological aspects of psychology.

MUSIC

For the degrees of Bachelor of Arts and Bachelor of Science in general studies

MUSIC; FIRST YEAR

[1

First year; at times to be arranged.

COURSES

History of music from 900 to 1700; form and analysis in music; harmony and counterpoint; practical training.
Examination: 2 papers.

MUSIC; SECOND YEAR [2]

Second year; at times to be arranged.
History of music from 1685 to 1828; acoustics;* harmony and counterpoint; prescribed works for detailed study; practical training.
Examination: 4 papers.

MUSIC; THIRD YEAR [3]

Third year; at times to be arranged.
History of music; harmony and counterpoint; double counterpoint; selected works for detailed study; a special subject; orchestration; practical training.
Examination: 4 papers.

The one-year course for the degrees is course 1. The two-year course when taken after the one-year course consists of courses 2 and 3. When the one-year course is *not* taken the two-year course consists of courses 1 and 2.

For the degree of Bachelor of Arts in special studies

MUSIC SS1 [4]

First year; at times to be arranged.
History of music from 900 to 1700; form and analysis; harmony; counterpoint; practical training.
Examination: 5 papers.

MUSIC SS2 [5]

Second year; at times to be arranged.
History of music from 1685 to 1828; special subject; advanced harmony; counterpoint and double counterpoint; acoustics;* practical training.
Examination: 5 papers.

MUSIC SS3 [6]

Third year; at times to be arranged.
History of music since 1880; special subject; analysis; orchestration; elementary composition, instrumental and vocal; counterpoint including canon; fugue; practical training.
Examination: 7 papers.

At the beginning of his third year each candidate for the degree of Bachelor of Arts in special studies in music must submit to the head of the department 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 the unaided work of the candidate, must be submitted not later than 1 May in the year in which the candidate is taking the final examination.

*This course will be given only in alternate years and candidates are expected to take the examination at the end of the year in which they attend the course.

FINE ART

FINE ART

For the degrees of Bachelor of Arts and Bachelor of Science in general studies

FINE ART; ONE-YEAR COURSE

First year; 2 lecture hours and 1 hour of approved study or demonstration a week at times to be arranged.

The nature of the plastic arts; European art from Archaic Period to Early Renaissance; contemporary art in France and Britain.

Examination: 2 papers and short *viva voce* examination.

FINE ART; TWO-YEAR COURSE

Second and 3rd years; 3 lecture hours and 1 hour of approved study or demonstration a week at times to be arranged.

Graphic art and critical study of selected European drawings; artistic theories in European art from the 15th to the 20th centuries; 19th-century art in France and England.

Painting and sculpture and their historical development; 16th- and 17th-century art in Europe or Rococo and Georgian art.

Examination: 3 papers.

THE FACULTY OF ECONOMIC AND SOCIAL STUDIES

ORDINANCE III

DEGREES IN COMMERCE

1. The degrees in commerce shall be:
Bachelor of Commerce (B.Com.)
Master of Commerce (M.Com.)
Doctor of Philosophy (Ph.D.)

THE DEGREE OF BACHELOR OF COMMERCE

2. The degree of Bachelor of Commerce shall be conferred as an ordinary degree or as a degree with Honours, according to the standard reached in the final examination.

3. All candidates for the degree of Bachelor of Commerce shall be required to have passed the examination for matriculation or to have obtained exemption therefrom, and thereafter to have pursued approved courses of study for not less than three academic years.

4. The complete course of study for the degree of Bachelor of Commerce shall be divided into two parts, called respectively the qualifying course and the final course.

5. Every candidate shall be required to pass two examinations, the qualifying and the final. No candidate who fails to satisfy the examiners at the first attempt shall be eligible for the award of Honours at any subsequent examination in the Faculty.

6. The qualifying and final examinations shall ordinarily be held in June. There shall also be a supplementary qualifying examination in September, at which those candidates only may present themselves who have obtained the permission of the Senate.

7. Candidates who have failed at a qualifying examination in June, and have obtained permission to present themselves at the following supplementary examination may be excused such part of the supplementary examination as the combined examination committee, on report from the examination committee for the degree of Bachelor of Commerce, may determine.

*8. Except with the special permission of the Senate, candidates will not be allowed to present themselves for the final examination for the degree unless they have passed the required qualifying examinations not later than the preceding September.

9. (a) Candidates who have passed the final examination for the degree of Bachelor of Commerce may be awarded

- (i) the degree of Bachelor of Commerce with first-class honours, or
- (ii) the degree of Bachelor of Commerce with second-class honours, first division, or
- (iii) the degree of Bachelor of Commerce with second-class honours, second division, or

*Subject to the approval of the Court.

BACHELOR OF COMMERCE

- (iv) the degree of Bachelor of Commerce with third-class honours, or
- (v) the degree of Bachelor of Commerce.
- (b) The names of successful candidates in each group shall be arranged in alphabetical order.

[See also the regulations on page 380.]

THE DEGREE OF MASTER OF COMMERCE

10. The degree of Master of Commerce may be conferred, on payment of the proper fee, and subject to the conditions laid down in articles 10, 11, and 12 on:

- (a) Registered Bachelors of Commerce of the University who have graduated with Honours or, with the special recommendation of the Board of the Faculties of Arts, Economic and Social Studies and Law, registered Bachelors of Arts of the University who have graduated with Honours in economics or economic and political science, after not less than one year from the date of their graduation;
- (b) Other registered graduates of the University and graduates of other approved universities, after not less than two years from the date of their graduation.

11. Candidates who are not registered Bachelors of Commerce or Bachelors of Arts of the University with Honours in economics or in economic and political science shall be required:

- (a) to satisfy the Senate that they are qualified to pursue advanced study or research within the field of economics and commerce;
- (b) to attend approved courses of study within the University for not less than two years; but it shall be in the power of the Senate, on the recommendation of the Board of the Faculties of Arts, Economic and Social Studies and Law, to excuse specially qualified graduates of the University from this attendance.

12. Every candidate, with the exception provided for under article 12, shall present a thesis, satisfactory to the Senate, on a subject approved by the Board of the Faculties of Arts, Economic and Social Studies and Law, embodying the results of his independent study or original research within the field of economics and commerce.

13. Registered Bachelors of Commerce of the University who have not graduated with Honours or other registered graduates of the University or graduates of other approved universities may be permitted or required, in place of the thesis prescribed under article 11, to submit themselves for examination upon a course or courses in which instruction is given within the department of economics and commerce, and to present a dissertation satisfactory to the Senate on a subject approved by the Board of the Faculties of Arts, Economic and Social Studies and Law.

[See also the regulations on page 381]

THE DEGREE OF DOCTOR OF PHILOSOPHY

[The degree of Doctor of Philosophy is governed by ordinance II, articles 50 to 52 and relevant regulations which are set out on pages 279 and 289.]

REGULATIONS FOR DEGREES

THE DEGREE OF BACHELOR OF COMMERCE

1. There shall be two examinations as follows:

*The qualifying examination**

The qualifying examination will consist of four papers, namely:

- (a) General economics
- (b) For accountancy and law students—accountancy
For technology students—an approved technological subject
- (c) For accountancy students—commercial law
- (d) For accountancy students—mathematics or politics or another subject approved by the head of the department
For technology students—any two of the following: mathematics, a natural science, industrial management
- (e) For law students—politics, principles of English law and English legal system.

The final examination

The final examination will consist of:

- (a) Economic theory (1 paper)
- (b) Money and finance (1 paper)
- (c) Economics of industry and labour (1 paper)
- (d) Economic statistics (1 paper)
- (e) Essay (1 paper)

together with

For accountancy students

- (f) Commercial law (1 paper)
- (g) Accountancy (4 papers)

For technology students

- (h) An approved technological subject (4 or 5 papers)

For law students

- (i) Accountancy

*Beginning in the session 1961-2, the first-year courses will be modified and the qualifying examination will consist of:

- (a) Economics qualifying (3 papers)
- (b) For accountancy students—Accountancy qualifying (1 paper)
either Mathematics Introductory (2 papers)
or Philosophy (2 papers)
or Politics I (2 papers)
- (c) For technology students—
An approved technological subject
either an approved natural science
or Mathematics Introductory (2 papers)
or Industrial management 1A (2 papers)
- (d) For law students—
Accountancy qualifying (1 paper)
English legal system and Principles of English law (2 papers)

- (j) Company law
- (k) Bankruptcy and partnership
- (l) Contract, negotiable instruments and sale of goods.

THE DEGREE OF MASTER OF COMMERCE

2. Candidates who are not registered graduates of the University must become registered as students of the University.

3. Candidates who are not registered Bachelors of Commerce of the University who have graduated with Honours or registered Bachelors of Arts of the University who have graduated with Honours in economics or in economic and political science shall be required:

- (a) to pursue a course of advanced study or research under the supervision of the head of the department of economics and commerce;
- (b) to give evidence to the Senate at the end of the first year of their period of study that their work has been satisfactory.

4. Candidates may be required to submit themselves for examination [written or oral or both] in the subject of their thesis [or dissertation].

5. A candidate shall not be permitted to submit as his thesis one 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 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. A copy of the thesis approved for the degree will be retained in the University library.

REGULATIONS PRESCRIBING SCHEMES OF STUDY FOR THE DEGREE OF BACHELOR OF ARTS IN COMBINED STUDIES

ANTHROPOLOGY* AND GEOGRAPHY

The final examination for the degree in anthropology and geography will consist of nine papers as follows:

- Human geography
- Physical geography
- Regional geography†
- Elements of social anthropology 1
- Elements of social anthropology 2
- Regional social anthropology

together with *three* of the following:

- Problems of the geography of population
- Geography of planning
- Development of geographical thought
- Urban geography
- Sociological theory
- Social institutions
- Elements of physical anthropology
- Demography

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.

ECONOMIC HISTORY‡ AND GEOGRAPHY

The final examination for the combined degree in economic history and geography will be based on teaching in the department of geography and in the department of economics; and will consist of ten papers as follows:

1. Human geography
2. Physical geography
3. Historical geography of Europe (including the British Isles)
4. Regional geography (British Isles or one major world area)
5. One of the following papers in geography:
 - Urban geography
 - Development of geographic thought
 - Problems of the geography of population
 - Problems of economic geography
 - Problems of political geography
 - Geography of planning
6. English economic history in outline, 1066-1914

*Sociology and geography must be included among the subjects studied in the first year.

†In the regional geography paper students would select the major world area in geography which includes their special studies region in anthropology.

‡Economics and geography must be included among the subjects studied in the first year.

ECONOMIC HISTORY AND GEOGRAPHY

7. Recent economic history (England 1914-1945, and the Great Powers 1870-1945)
8. Economic theory
9. and 10. Two special periods or topics in economic history, selected from the following:*
- (a) 16th century English economic history
- (b) Early 19th century English economic history
- (c) Late 19th century English economic history

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 POLITICS

The final examination in the combined school of economics and politics will include the following:

- Economic theory
 - Industry and labour
 - Money and finance
 - Politics 1
 - Politics 2
 - Political and social theory
- and *three* of the following:
- Economic development
 - Trade unionism and the control of labour
 - Control of industry
 - Planning and monetary policy
 - The government of a special area
 - Social administration
 - International relations
 - Political sociology

ECONOMICS AND SOCIOLOGY

The final examination in the combined school of economics and sociology will include the following:

- Economic theory
 - Industry and labour
 - Money and finance
 - Sociology (3 papers)
- and *three* of the following:
- Economic development
 - Human relations in the firm
 - Trade unionism and the control of labour
 - Control of industry

*These subjects may be varied from time to time.

Social psychology
Criminology
Demography
Social administration

For the schools of combined studies in geography and politics, geography and sociology, philosophy and politics, and psychology and sociology, see under the Faculty of Arts, pp. 294, 295, 297 and 298.

SOCIOLOGY AND PHILOSOPHY

The final examination in the combined school of sociology and philosophy will consist of eight papers as follows:

Sociology (3 papers)
Political and social theory
Biological and psychological approaches to sociology
Ethics
Logic and general philosophy

One further philosophical subject from among those offered for the degree of Bachelor of Arts in special studies in philosophy (*see* p. 326) to be chosen with the approval of the heads of the departments of philosophy and social studies.

In addition candidates will be required to present themselves for an oral examination.

REGULATIONS PRESCRIBING SCHEMES OF STUDY FOR THE DEGREE OF BACHELOR OF ARTS IN SPECIAL STUDIES

The ordinance and general regulations governing the degree of Bachelor of Arts will be found on pages 270 and 282. Regulations prescribing the examinations in economics, in sociology and in politics for the degree of Master of Arts will be found on page 340.

ECONOMICS

Candidates for the degree of Bachelor of Arts in special studies in economics will be required to pursue courses of study and to submit themselves to a qualifying examination consisting of:*

General economics (2 papers)

Economic and social history and social structure (2 papers)

Politics 1 (2 papers)

Philosophy 1 and 2 or Pure mathematics Introductory and Philosophy 2 (2 papers)

This qualifying examination must normally be passed by candidates before they proceed to further study.

In the second and third years, candidates will be required to pursue courses of study and to submit themselves to the following final examination:

Economic theory (1 paper)

Money and finance (1 paper)

Economics of industry and labour (1 paper)

Economic statistics (1 paper)

Economic history of England (1 paper)

Essay (1 paper)

and *three* papers chosen with the approval of the head of the department from the following:†

Dynamic economics

International economics

Economic development

Planning and monetary policy

Industrial relations and labour economies

*Beginning in the session 1961-2, the first-year courses will be modified and the qualifying examination will consist of:

Economics qualifying (3 papers)

English economic history (2 papers)

One of the following:

Politics 1 (2 papers)

Sociology (2 papers)

Philosophy (2 papers)

Mathematics Introductory (2 papers)

†Not all of these topics will necessarily be offered in any one year. New topics may be added from time to time.

Control of industry
Human relations in the firm
Trade unionism and the control of labour
The economic history of a special period.

ECONOMICS WITH STATISTICS

For the degree of Bachelor of Arts in special studies in economics with statistics the scheme of study will be:

First year

General economics
Economic and social history of Western Europe since 1750
Introduction to sociology
Politics I
Statistics Introductory

A qualifying examination must normally be passed by candidates before they proceed to further study:*

General economics (2 papers)
Economic and social history and social structure (2 papers)
Politics I (2 papers)
Statistics Introductory (2 papers)

In the second and third years candidates will be required to pursue courses of study and to submit themselves to the following final examination:

Economic theory (1 paper)
Money and finance (1 paper)
Economics of industry and labour (1 paper)
Essay (1 paper)
Statistics (3 papers)
and *two* of the following (1 paper each):
Econometrics
Demography
Actuarial statistics
Industrial statistics
Social accounting and income analysis
Mathematical economics

*Beginning in the session 1961-2, the first-year courses will be modified and the qualifying examination will consist of:

Economics qualifying (3 papers)
Statistics Introductory (2 papers)
One of the following:
English economic history (2 papers)
Sociology (2 papers)
Politics I (2 papers)
Philosophy (2 papers)

POLITICAL STUDIES

POLITICAL STUDIES

For the degree of Bachelor of Arts in special studies in political studies the scheme of study will be:

First year

Politics 1

Economics

Sociology

Philosophy

A qualifying examination consisting of two 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.

During the second and third years, candidates will be required to attend approved courses of instruction in the subjects in which they will submit themselves for the final examination. This examination will consist of nine papers taken at the end of the third year as follows :

Politics 1 and 2 (2 papers)

Political philosophy (1 paper)

Contemporary political thought (1 paper)

Logic and general philosophy (1 paper)

Constitutional and political history of Great Britain since 1660 (1 paper)

Political history of modern Europe and the U.S.A. (1 paper).

*Two of the following:**

The government of a special area or areas

Political geography

Political sociology

Public finance

Social administration

A special subject in political philosophy

International relations.

SOCIOLOGY

For the degree of Bachelor of Arts in special studies in sociology the scheme of study will be:

First year

1. Economics

2. Politics 1

3. Sociology

4. Philosophy *or* mathematics† *or* another approved subject.‡

*Not all these special subjects will necessarily be offered in any one year and new subjects may be added from time to time.

†Students taking this option will be required to sit the Introductory Mathematics paper in pure mathematics and the paper in elements of logic set for the introductory philosophy course.

‡Other subjects will be approved only when the student can show a satisfactory knowledge of either philosophy or mathematics.

B.A. IN SPECIAL STUDIES

A qualifying examination consisting of two 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.

Second and third years

1. Sociology (3 papers)
 2. The social structure of modern Britain
 3. Political and social theory
 4. Social psychology
- together with one of the following four groups:

Group (a) *Three* of the following subjects:*

- (i) Criminology
- (ii) Demography
- (iii) Industrial relations
- (iv) Social administration
- (v) Social medicine
- (vi) Social statistics

Group (b)

- (i) Politics 1
 - (ii) Politics 2
- and *one* of the following subjects:*
- (iii) The government of a country or countries to be prescribed from time to time
 - (iv) International relations
 - (v) Jurisprudence
 - (vi) Political philosophy
 - (vii) Political sociology
 - (viii) Public finance
 - (ix) Social administration
 - (x) Industrial relations

Group (c)

- (i) Social anthropology (2 papers)
- (ii) The social anthropology of a selected region or special subject

Group (d)

- (i) Advanced sociological theory
- and *two* of the following subjects:*
- (ii) Criminology
 - (iii) Demography
 - (iv) Political sociology
 - (v) Sociology of colonies
 - (vi) Sociology of religion
 - (vii) Urban studies

The final examination will consist of nine papers taken at the end of the third academic year in the second- and third-year subjects.

*Not all these topics will necessarily be offered in any one year.

PREScribed SCHEME OF STUDY FOR THE DIPLOMA IN SOCIAL STUDIES

The scheme for the diploma in social studies is designed for graduates in subjects other than the social sciences, who wish to make a career in some kind of social work. It provides a theoretical background, but contains a period of practical work in a recognized agency. This period is generally taken in the long vacation, after lectures and examinations are finished. The period of practical training forms an integral part of the course, and no student will be awarded the diploma unless a satisfactory report is received on his or her practical work. The senior tutor generally also arranges a residential placement for students in September before the beginning of the course, so that its total duration is twelve calendar months. In view of the shortage of places in training agencies, the number of students that can be admitted is severely limited.

Students will be required to have obtained a degree with Honours of an approved university before being admitted to the course.

In exceptional cases students who have attained twenty-five years of age at the beginning of the session in which they begin their course may be admitted to the diploma course without having graduated. Such students will have to produce evidence of considerable practical experience of and aptitude for social work, and will be required to spend two academic sessions in full-time attendance at the University.

The examination for the diploma will consist of six papers as follows:

1. Social administration (1 paper)
2. Central and local government (1 paper)
3. Elements of physiology and social medicine (1 paper)
4. Social psychology and social work (1 paper)
5. Elements of sociology (1 paper)
6. Social history and social economics (1 paper)

A candidate's performance in practical work will be taken into account in assessing the final result of the examination and no student will be permitted to receive the diploma unless a satisfactory report has been received on his or her practical work.

A candidate who shows exceptional merit in the examination may be awarded a mark of distinction.

PREScribed SCHEMES OF STUDY

The following notes are explanatory to the ordinances and regulations governing both the degree of Bachelor of Commerce and also the degrees of Bachelor of Arts in general and special studies and Bachelor of Science in general studies. They should be read in conjunction with them and with those sections of the *Calendar* entitled Courses in the Faculties of Arts, of Science, of Technology and of Economic and Social Studies.

Attendance at lectures in economics is mostly voluntary for persons reading economics or commerce for the Bachelors' degrees. Attendance at tutorials, at lectures in accountancy and at the second- and third-year seminars in economics is compulsory where prescribed.

The following courses, seminars and tutorials are recommended or prescribed at the specified stages of students' careers. The figures *in brackets* show the number of hours lecture time a week. Figures *not* in brackets indicate the course number.

FOR THE FIRST YEAR

The recommended lecture courses in economics for all first-year students reading economics for a degree in general or special studies are:

General economics (2)

Tutorials (which are compulsory) are held weekly.

The recommended lecture courses in the remaining subjects required in the first year of the schemes of study for the degree of Bachelor of Arts in special studies in economics are:

Politics 1 (2)

Economic and social history of Western Europe from 1750(1)

Introduction to sociology (1)

Philosophy 1 and 2 (3)

or Pure mathematics Introductory and Philosophy 2 (4)

The recommended lecture courses in industrial relations for all first-year students reading the subject for the degree of Bachelor of Arts in general studies are:

General economics (2)

History of industrial relations (1)

Tutorials (in economics)—weekly.

Students reading for the degree of Bachelor of Commerce with accountancy or law as a principal subject are required to attend Accountancy 1 (2 hours a week) and all students for this degree are required to attend the following courses prescribed in other subjects, particulars of which will be found elsewhere in the *Calendar* under the appropriate Faculties:

PRINCIPAL SUBJECT:

Accountancy
Commercial law
and
Politics I
or
Mathematics
Introductory
or
Another subject
approved by the head
of the department

*Technological
subject*
*Prescribed courses in
the technological
subject
and any two of:
†Mathematics
Introductory
or
Physics Introductory
or
Chemistry
Introductory
or
‡Industrial management I A

FOR THE SECOND AND THIRD YEARS

Economics for the degrees of Bachelor of Arts and Bachelor of Science in general studies

Second year

For students who are to be examined in economic history:

Economic and social history of Western Europe since 1750

For students who are to be examined in structure and problems of industry:

Outline of industry (1)

For all students:

Economic theory (2)

Second-year economics seminar (1)

Tutorials—fortnightly

Third year

For students who are to be examined in economic history:

Economic history of England

Outline of industry (1)

For students who are to be examined in Economics of industry and labour:

Economics of industry and labour (2)

Money and banking (1)

For all students:

Third-year economics seminar (2)

Tutorials—fortnightly.

[Revision classes are offered on the principal second-year subjects.]

*Those prescribed for Textile industries are:

Textile chemistry I

Raw materials I or I A

Worsted yarn production I

Woollen yarn production I

Staple fibre yarn manufacture I

†This option is available when Textile industries is taken as a principal subject. With other technological principal subjects, mathematics is normally compulsory.

‡Consisting of introduction to industrial management and elementary sampling statistics.

Industrial relations for the degree of Bachelor of Arts and Bachelor of Science in general studies

Second year

- Industrial relations (2)
- Industrial psychology (department of psychology) (1)
- Tutorials—fortnightly

Third year

- Trade unionism and collective bargaining (1)
- The State and industrial relations (1)
- Seminars (1)
- Tutorials—fortnightly.

The degree of Bachelor of Arts in special studies in economics

Second year

- Economic theory (2)
- Money and banking (1)
- Public and international finance (1)
- Outline of industry (1)
- Economics of industry and labour (2)
- English economic history (2)
- Economic statistics I (1)
- Second-year economics seminar (1)
- Tutorials—weekly.

Third year

- Economic statistics 2 (1)
- Third-year economics seminar (2)
- Revision class or tutorial (1)
- Classes in each of the three special subjects chosen (3)

The degree of Bachelor of Commerce with accountancy as a principal subject

Second year

- Economic theory (2)
- Money and banking (1)
- Outline of industry (1)
- Public and international finance (1)
- Economic statistics I (1)
- Accountancy (3)
- Commercial law (2)
- Second-year economics seminar (1)
- Economics of industry and labour (2)
- Tutorials in economics are held fortnightly.

Third year

- Economic statistics 2 (1)
- Economic aspects of accountancy (seminar) (1)
- Third-year economics seminar (2)
- Accountancy (4)
- Commercial law (2)
- Tutorials in economics are held fortnightly.

The degree of Bachelor of Commerce with law as a principal subject

First year

- General economics (2 hours a week and 1 hour tutorial)
- Accountancy I (2)
- Principles of English law (1)
- English legal system (1)
- Politics I (2)

Second year

- Economic theory (2)
- Economics of industry and labour (2)
- Money and banking (1)
- Outline of industry (1)
- Public and international finance (1)
- Economic statistics I (1)
- Accountancy II (2)
- Second-year economic seminar (1)
- Law of contract and negotiable instruments (2)
- Industrial law (1)

Third year

- Economic statistics 2 (1)
- Accountancy III (1)
- Third-year economics seminar (1)
- Company law (1)
- Bankruptcy and partnership (1)
- Sale and carriage of goods (1)
- Agency, guarantee and indemnity (1)
- Law seminar (1)

The degree of Bachelor of Commerce with textile industries as a principal subject

[The programme recommended for students reading for the degree of Bachelor of Commerce with other technological principal subjects is similar to this.]

Second year

- Economic theory (2)
- Money and banking (1)
- Public and international finance (1)
- Economic statistics I (1)

SCHEMES OF STUDY

Economics of industry and labour (2)

Outline of industry (1)

Second-year economics seminar (1)

Textile calculations 1B (1)

Loom study 1

Cloth analysis 1 and 2

Cloth structure 1

Knitting 1

Textile testing

Two of

Woollen yarn production 2

Worsted yarn production 2

Staple fibre yarn manufacture 2

Tutorials in economics are held weekly or fortnightly.

Third year

Economic statistics 2 (1)

Seminar in textile economics (1)

Third-year economics seminar (2)

Loom study 2

Cloth structure 2

Complex textiles

Cloth finishing 1 or 2

Textile chemistry 3

Textile physics 2a

Two of

Woollen yarn production 3

Worsted yarn production 3

Staple fibre yarn manufacture 3

Tutorials in economics are held weekly or fortnightly.

COURSES IN THE FACULTY OF ECONOMIC AND SOCIAL STUDIES

ECONOMICS

GENERAL ECONOMICS

For all 1st-year students taking economics or industrial relations for a degree or diploma.

Tuesday and Thursday 10 to 11.

A general introductory course including elements of social accounting, monetary systems, theory of production, demand, supply and price formation, distribution, industrial organisation, the level of activity, and public policy.

Examination: 2 papers of 3 hours each.

OUTLINE OF INDUSTRY

For 2nd- or 3rd-year students reading for the degree of Bachelor of Arts in general studies.

Thursday 10 to 11.

A discussion of the development, structure, and organisation of a selected group of British industries with particular emphasis on the relationship between technological and economic features.

Examination: Part of a 3-hour paper (Industry, social history and money) taken at the end of the 3rd year.

ECONOMIC THEORY

For 2nd-year students reading for the degrees of Bachelor of Arts in general studies or in special studies in economics or economics with statistics, or for the degree of Bachelor of Commerce.

Tuesday and Thursday 11 to 12.

1. Aims and methods of economic enquiry—brief history of the developments in theory.
2. The exchange economy—formation of prices of commodities and services in different market structures.
3. Movements of the whole economy—the determinants of the level of economic activity, fluctuations and growth.
4. Economics of welfare—the measurement of performance.
5. The basic mechanisms involved in international trade.

Examination: 1 paper of 3 hours.

ECONOMICS OF INDUSTRY AND LABOUR

For 2nd-year students reading for the degrees of Bachelor of Arts in special studies in economics or Bachelor of Commerce, and 3rd-year students reading for the degrees of Bachelor of Arts in general studies or of Bachelor of Science with Honours in agricultural economics.

Monday 10 to 11 and Tuesday 12 to 1.

An analysis of the industrial structure of Great Britain including the size and concentration of firms, monopoly, the location and finance of industry and the problems peculiar to the nationalised industries. In addition, an examination is made of the structure and organisation of trade unions, of the system of collective bargaining and of problems of industrial democracy.

Examination: 1 paper of 3 hours.

MONEY AND BANKING

For 2nd-year students reading for the degrees of Bachelor of Arts in special studies in economics or Bachelor of Commerce or Bachelor of Science with Honours in agricultural economics, and 3rd-year students reading for the degree of Bachelor of Arts in general studies.

Tuesday 4 to 5.

A course covering basic monetary theory, the structure of the financial system of the United Kingdom, and the implementation of monetary policy.

Examination: Part of a 3-hour paper (Industry, social history and money) taken at the end of the 3rd year.

PUBLIC AND INTERNATIONAL FINANCE

For 2nd-year students reading for the degrees of Bachelor of Arts in special studies in economics, or of Bachelor of Commerce, or of Bachelor of Science with Honours in agricultural economics.

Wednesday 12 to 1.

The first part of this course is concerned with the scope and objectives of public finance, with particular emphasis on the relationship between public finance and the level of activity, and a detailed examination of the tax structure of the United Kingdom. Then the financial and policy complications introduced by external trade and capital movements are considered in the light of an examination of the mechanism of the foreign exchange market and the structure of financial institutions.

ECONOMIC STATISTICS 1

For 2nd-year students reading for the degrees of Bachelor of Arts in special studies in economics or of Bachelor of Commerce, or of Bachelor of Science with Honours in agricultural economics.

Monday 3 to 4.

The elements of survey organisation: the government's censuses and administrative statistics; elementary statistical analysis applied to frequency distributions and economic time series; correlation; and elementary sampling theory.

ECONOMIC STATISTICS 2

For 3rd-year students reading for the degrees of Bachelor of Arts in special studies in economics or of Bachelor of Commerce, or for 2nd-year students reading for the degree of Bachelor of Science with Honours in agricultural economics.

Thursday 10 to 11.

Index numbers, social accounting and national income, elements of demography.
Examination: 1 paper of 3 hours covering Economic statistics 1 and 2.

ECONOMIC AND SOCIAL HISTORY OF WESTERN EUROPE SINCE 1750

For 1st-year students reading for the degree of Bachelor of Arts in special studies in economics and for 2nd-year students reading for the degree of Bachelor of Arts in general studies.

Tuesday 3 to 4.

This course outlines economic and social developments in the United Kingdom, France and Germany from their industrial transformation. The subjects dealt with include the decline of peasant society, population trends, agricultural and industrial growth, town life and some changes in social organisation.

Examination: Part of a 3-hour paper (Industry, social history and money) taken at the end of the 3rd year.

ENGLISH ECONOMIC HISTORY

For 2nd-year students reading for the degree of Bachelor of Arts in special studies in economics, for 1st-year students reading for the degree of Bachelor of Science with Honours in agricultural economics and for 3rd-year students reading economics for the degree of Bachelor of Arts in general studies.

Tuesday 3 to 4 and Thursday 4 to 5.

An outline course covering the period between the Anglo-Saxon invasions and the end of the second world war. Attention is particularly directed to characteristic documentary sources as illustrated in Bland, Brown and Tawney (eds.), *Select Documents*, a copy of which all students are recommended to purchase.

Examination: 1 paper of 3 hours.

HISTORY OF INDUSTRIAL RELATIONS

For 1st-year students reading industrial relations for the degree of Bachelor of Arts in general studies.

Wednesday 12 to 1.

A short survey of the rise and decline of the medieval craft guilds is followed by a more detailed account of the evolution of Britain's industrial economy, the growth of collective bargaining, factory legislation and the development of the system of arbitration in labour disputes.

Examination: 1 paper of 3 hours.

INDUSTRIAL RELATIONS

For 2nd-year students reading industrial relations for the degree of Bachelor of Arts in general studies or as an optional subject for the degree in special studies in sociology or as an optional subject for the degree of Bachelor of Science in the Faculty of Technology or for the diploma in social studies.

Tuesday and Thursday 10 to 11.

A general introduction to industrial relations including industrial relations at the workplace, the organisation and functions of trade unions, collective bargaining, wage problems, the settlement of disputes and statutory wage fixing machinery.

INDUSTRIAL RELATIONS III

The State and Industrial Relations

For 3rd-year students reading industrial relations for the degree of Bachelor of Arts in general studies or as an optional subject for the degree of special studies in sociology or as an optional subject for the degree of Bachelor of Science in the Faculty of Technology.

One hour a week.

An examination of the activities of the state in relation to labour in both legislative and non-legislative fields, comprising a comprehensive survey of labour legislation in Britain with some reference to other countries, the organisation and work of the Ministry of Labour. Industrial relations in the nationalised industries.

Trade Unionism and Collective Bargaining

For 3rd-year students reading industrial relations for the degree of Bachelor of Arts in general studies or in special studies in sociology or as an additional subject for the degree of Bachelor of Science in the Faculty of Technology.

One hour a week.

An examination of the organisation of trade unions, the Trades 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 TECHNOLOGISTS

For 1st-year students reading for the degree of Bachelor of Science or for diplomas in the Faculty of Technology.

A course designed to illustrate some of the ways in which industrial and commercial considerations influence the use of technical knowledge in industry.

The course is divided into two sections:

Applied Economics A

Thursday 11 to 12.

For students in the departments of gas engineering and fuel science, ceramics, chemical engineering, metallurgy and mining who are not proceeding to take industrial relations.

Examination: 1 paper of 3 hours.

Applied Economics B

Wednesday 12 to 1.

For students in the departments of civil, electrical or mechanical engineering who have the option to proceed to take industrial relations. Also for students taking the course for the diploma in textile industries.

Examination: 1 paper of 3 hours.

INDUSTRIAL MANAGEMENT I

For 1st-year students reading for the degree of Bachelor of Arts in textile design or for the degree of Bachelor of Science or for diplomas in the Faculty of Technology. Students reading for the degree of Bachelor of Commerce

with textile industries as a principal subject may take Industrial management IA, which consists of Introduction to industrial management and Elementary sampling statistics.

Introduction to Industrial Management

Thursday 11 to 12 (first half of session).

Development of mass production methods; line production; batch production; job shop production; costs of setting up, running and changing. Production planning and control. Manufacturing policy: variety reduction, standardisation, specialisation. The scientific management movement.

Elementary Sampling Statistics

Thursday 11 to 12 (second half of session).

Elements of statistics, and an understanding of some of their uses in industry. Frequency distributions; measures of centrality; measures of dispersion; standard deviation. Probability: Binomial, Poisson and Normal distributions. Sampling: operating characteristics of sampling schemes; design of sampling schemes; double sampling schemes. Quality control charts. Correlation.

Examination: 1 paper of 3 hours on Introduction to industrial management and Elementary sampling statistics.

Management Economics 1

Thursday 10 to 11.

A description of the economy built around the problems of the firm.

Examination: 1 paper of 3 hours.

INDUSTRIAL MANAGEMENT II

For 2nd-year students who have completed Industrial management I.

Management Economics 2

Thursday 10 to 12 in the first term, and Thursday 10 to 11 for the remainder of the session.

The course assesses the relevance of the theory of the firm in economic analysis to the formulation of business policy. It develops an economic approach to the management decision-making process, and considers the usefulness of orthodox accounting records for management purposes.

Examination: 1 paper of 3 hours.

Administrative Practice A

Wednesday 10 to 11. Seminar in second term only: Monday 12 to 1.

Manufacturing policy; management decisions; organisation. Function of industrial engineering; methods improvement; variety reduction, decisions based on costs. Instead of having an examination at the end of the year, students are required to present a report on a problem which they study in industry during the academic year. Work on the reports is discussed in the seminar and in group tutorials.

INDUSTRIAL MANAGEMENT III

For undergraduates in their final year who have completed Industrial management I and II. It is also open to graduate students.

Human Relations in the Firm

This course may be taken as a special subject by students reading for the degree of Bachelor of Arts in economics.

Monday 2 to 4 (seminar).

Problems of administration. Individual and group behaviour; informal organisation; response to change.

Examination: 1 paper of 3 hours.

Administrative Practice B and Industrial Method Study

Tuesday 12 to 1 (seminar).

Study of organisation; cases and problems; research on organisation. Group relationships; decision-making. Problem-solving methods used in industrial organisations.

Examination: 1 paper of 3 hours.

MANAGEMENT ACCOUNTING

For postgraduate students of industrial management.

Monday 3 to 4.

The use of accounting data by management. The accounting equation and the recording of transactions. Preparation of accounting statements, valuation of assets and liabilities, measurement of business income. Funds, statements and the analysis and interpretation of accounts. The problems of changing price levels. Elementary mathematics of finance.

Cost analysis and control. Concepts of cost in accounting and economics. Accounting for materials, labour and overhead. Budgeting and standard costing. Cost calculations for some aspects of managerial planning and control.

GRADUATE MANAGEMENT SEMINAR

For postgraduate students of industrial management, and for a limited number of postgraduate students reading for further degrees in technology or science.

Monday 4 to 6.

This seminar discusses at a more advanced level the topics listed under Administrative Practice B and Industrial Method Study and subjects arising from the research interest of members of the seminar.

ACCOUNTANCY I

For 1st-year students reading for the degree of Bachelor of Commerce with accountancy or law as a principal subject.

Monday 10 to 11 and Thursday 12 to 1.

Compound interest calculations and elementary business and financial problems. The mechanics of double entry book-keeping and the preparation of accounting statements, with particular consideration of specific types of accounts, including sole traders, partnerships, etc.

The uses, interpretation and limitations of accounting statements.

Examination: 1 paper.

ECONOMICS

ACCOUNTANCY II and III

For 2nd- and 3rd-year students reading for the degree of Bachelor of Commerce with accountancy or law as a principal subject.

Second year, Monday 12 to 1 and Tuesday 3 to 4; 3rd year, Monday 11 to 12 and Tuesday 2 to 3.

Preparation of departmental and branch accounts, the accounts of limited companies, group accounts, economic problems in relation to accountancy.

Cost Accounting

Second year, Wednesday 9 to 10; 3rd year (2nd term), Wednesday 10 to 11.

Accounting data for controlling costs and efficiency, and for pricing and output decisions. The meaning of 'cost.' Accounting for materials, labour and overheads. Job and process costing. Standard costing and budgetary control.

Break-even analysis, marginal costing and management control through profit planning. The use of costing data in solving managerial problems concerning plant replacement, substitution of productive factors, abandonment of production.

Auditing

Third year (1st term), Wednesday 10 to 11.

An outline of auditing practice and its objects; vouching, checking of books of account, verification of assets and liabilities.

Some consideration of the law affecting the duties and responsibilities of auditors.

The use of auditing techniques as a check on managerial efficiency.

Principles of Taxation

Second year (2nd and 3rd terms), Friday 9 to 10; 3rd year (1st term), Friday 9 to 10.

SOCIAL ACCOUNTS SEMINAR

For 2nd- and 3rd-year students reading for the degree of Bachelor of Commerce with accountancy as the principal subject.

Second year (3rd term), Tuesday 10 to 11; 3rd year (1st and 2nd terms), Tuesday 10 to 11.

A consideration of economists' and accountants' views on capital, income and other concepts of significance in the preparation of social accounts, the value of such accounts, and the methods that have been followed in the preparation of the social accounts of the United Kingdom.

TEXTILE ECONOMICS

For 1st-year students reading for the diploma in textile industries.

Two hours a week.

This course is in two parts. One deals with the history, organisation and structure, and economic problems of the textile industry, with particular reference to wool textiles; the other with industrial relations with reference to the textile industries.

SOCIAL STUDIES

INTRODUCTION TO SOCIOLOGY I

For the degree of Bachelor of Arts in special studies in sociology, in political studies, in economics, and in combined studies.

Monday 11 to 12 and Wednesday 10 to 11.

The principal terms used in sociology. Types of social systems. Social relations in an industrial society. The nature of urban community. Class conflict and status systems. Ideology and social structure. The family and other agencies of socialisation.

The biological basis of human nature. The principal data available for the study of society and the use made of them.

THE GOVERNMENT OF GREAT BRITAIN I

For the degree of Bachelor of Arts in special studies in sociology, in political studies, in economics, and in combined studies, and for the degree of Bachelor of Commerce.

Tuesday 2 to 3 and Thursday 11 to 12.

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.

INTRODUCTION TO ANTHROPOLOGY*

For the degree of Bachelor of Arts in general studies (anthropology) (first year), and for the degree of Bachelor of Science in general studies (anthropology).

Three hours a week.

Elements of Physical Anthropology

Saturday 9.30 to 10.30.

The zoological position of man and the evolution of the primate order. The structure and growth of the human skeleton. Influence of heredity and nutrition. Sexual differentiation. Elements of anthropometry. Geological time and human evolution. The races of living man and their morphological and physiological traits. Elements of genetics.

Prehistory and Ethnology

Monday 9 to 10.

The pleistocene epoch; climatic and related changes in the geographical background and setting of early man. The neolithic revolution; the bronze age and iron age in Europe and the Americas.

Introduction to Social Anthropology

Monday 10 to 11.

The concept of culture; the variety of cultures and their relations to natural environment. Principal institutions of primitive society in outline.

*This course will not be given after the session 1960-1.

SOCIOLOGICAL THEORY 2

For 2nd-year students reading for the degree of Bachelor of Arts in special studies in sociology, and in general or combined studies (sociology).

One hour a week.

The contributions of other disciplines to sociological thought; the origins of sociology as a distinct discipline. Methods of analysis of leading sociologists, and their principal theories of society, social institutions, social change and social deviation.

SOCIOLOGICAL THEORY 3

For 3rd-year students reading for the degree of Bachelor of Arts in special studies in sociology and in general or combined studies (sociology).

Thursday 12 to 1.

Methods of analysis of leading sociologists and their principal theories, continued. Recent developments in sociology including certain specific fields of social investigation.

METHODOLOGY OF SOCIAL SCIENCE 3

For the degree of Bachelor of Arts in special studies in sociology and in general studies (sociology).

Monday 10 to 11.

Deductive and inductive methods in the social sciences; the role and difficulties of measurement in the social sciences. The problem of observation in sociology; laws and models in the theoretical sciences and in sociology, value judgements and the problem of objectivity. A discussion of some empirical research projects with special reference to their methodology.

SOCIAL INSTITUTIONS 2

For 2nd-year students reading for the degree of Bachelor of Arts in special studies in sociology and in general or combined studies (anthropology or sociology).

Wednesday 11 to 12.

The nature of social institutions, and their analysis; science and technology; property relations and economic structure, government and law, marriage and the family, religion and magic, all studied with special reference to pre-industrial societies.

SOCIAL INSTITUTIONS 3

For the degree of Bachelor of Arts in special studies in sociology, and in general studies (sociology).

One hour a week, beginning in the last term of the second year, and continuing through the third year.

The comparative study of socio-economic systems; the state and political parties, religious and ideological institutions, status systems, family, local community and the institutions of mass communications. The emphasis will be upon the development of modern industrial societies.

THE SOCIAL STRUCTURE OF MODERN BRITAIN 2

For the degree of Bachelor of Arts in special studies in sociology.

Wednesday 12 to 1.

The transformation of British society in the nineteenth century under the impact of industrialism. The demographic transition. The family and social structure. Social stratification and selection. Religion.

THE SOCIAL STRUCTURE OF MODERN BRITAIN 3

For the degree of Bachelor of Arts in special studies in sociology.

Political parties and pressure groups. The social structure of the administration.

Trade unions. Education. Mass communications.

POLITICAL AND SOCIAL THEORY 2

For 2nd-year students reading for the degree of Bachelor of Arts in special studies in sociology or in political studies, and in general or combined studies (politics).

Tuesday 11 to 12.

Central theoretical problems of modern political philosophy.

POLITICAL AND SOCIAL THEORY 3

For the degree of Bachelor of Arts in special studies in sociology and in political studies, and in combined studies (politics).

One hour a week in the first and second term.

A study of recent political theory and the interaction between political theory and political practice in the contemporary world.

SOCIAL ADMINISTRATION 2

As an optional subject for students reading for the degree of Bachelor of Arts in special studies in sociology (groups A and B).

Friday 12 to 1.

The development of the social services and the emergence of the idea of the welfare state in Great Britain in the twentieth century. The economics of welfare. Meeting the needs of the community for social security, health and education.

SOCIAL ADMINISTRATION 3

As an optional subject for students reading for the degree of Bachelor of Arts in special studies in sociology (groups A and B).

One hour a week.

The development and present scope of the specialized welfare services and their relation to the functions of the family. The social care of old people and of children; the nature of the problem family.

CRIMINOLOGY 2

As an optional subject for 2nd-year students reading for the degree of Bachelor of Arts in special studies in sociology (groups A and D), or for the diploma in social studies.

Monday 10 to 11.

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.

CRIMINOLOGY 3

As an optional subject for 3rd-year students reading for the degree of Bachelor of Arts in special studies in sociology (groups A and D) and 2nd-year students reading for the diploma in social studies.

Monday 11 to 12.

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.

DEMOGRAPHY 2

As an optional subject for students reading for the degree of Bachelor of Arts in special studies in sociology (groups A and D).

Monday 4 to 5 in the 2nd and 3rd terms.

The growth of world population since 1650, and associated changes in population structure. The problems of demographic analysis. The main sources of published data on population. Censuses and vital statistics. Simple rates. Mortality and the Life Table. Standardization.

DEMOGRAPHY 3

As an optional subject for students reading for the degree of Bachelor of Arts in special studies in sociology (groups A and D).

One hour a week in the 1st and 2nd terms.

The analyses of nuptiality, fertility and reproduction. Cohort analysis. Differential fertility. Problems of high fertility areas. Social and economic implications of demography. Population theories and policy.

ELEMENTS OF SOCIAL ANTHROPOLOGY 2

For the degree of Bachelor of Arts in special studies in sociology (group C); and in general studies (anthropology).

One hour a week in the first and 2nd term, and 2 hours a week in the 3rd term. Social anthropology's relations with ethnology, history, archaeology, linguistics, jurisprudence, economics, sociology.

'Culture' as the basis of social anthropology; variations in culture; the influence of geography, climate, politics, etc.

A brief outline of some of the institutions of formerly 'savage' and 'barbarous' societies (a) economic organisation (b) political organisation (c) kinship and marriage (d) cosmology, magic, religion.

The development of those societies under modern conditions of Western domination.

ELEMENTS OF SOCIAL ANTHROPOLOGY 3

For the degree of Bachelor of Arts in special studies in sociology (group C); and in general studies (anthropology).

Tuesday 9 to 10.

The subjects of Elements of social anthropology 2 continued and studied to a more advanced level.

COMPARATIVE ETHNOGRAPHY 2

For the degree of Bachelor of Arts in special studies in sociology (group C) and in combined studies (anthropology).

Tuesday 10 to 11.

An analytical description of religious and marital institutions in a number of 'primitive' and 'advanced' societies.

REGIONAL SOCIAL ANTHROPOLOGY 3 (AFRICA)

As an optional subject for the degree of Bachelor of Arts in special studies in sociology (group C) or in general studies (anthropology).

Tuesday 12 to 1.

Historical and geographical background. General racial distribution and ethnology of the continent. Main varieties of economic and social structure. The social structure of the peoples of a particular area; British West Africa.

REGIONAL SOCIAL ANTHROPOLOGY 3 (THE CARIBBEAN AREA)

For the degree of Bachelor of Arts in special studies in sociology (group C) and in general studies (anthropology).

Wednesday 9 to 11.

The study of a specific group of societies: Caribbean societies as examples of heterogeneity; the minority group. The Negro in the U.S.A.; Brazilian culture, a type of amalgamation; problems of large-scale complex societies.

BRITISH GOVERNMENT 2

For the degree of Bachelor of Arts in special studies in political studies and in sociology (group B) and in combined studies (politics).

Monday 11 to 12.

A detailed study of the working of British government, with special reference to parties and pressure groups, parliamentary procedure, the structure and working of cabinet government, the civil service, Treasury control, judicial control of administrative tribunals, *ad hoc* agencies (including nationalised industries), local government.

MODERN FOREIGN GOVERNMENTS 2

For the degree of Bachelor of Arts in special studies in political studies and in sociology (group B) and in combined studies (politics).

Monday 12 to 1.

After an introduction to the comparative study of constitutions and forms of government, the political institutions of the British Commonwealth, the United States, France and the Soviet Union will be treated in general outline.

COMPARATIVE GOVERNMENT 2

For the degree of Bachelor of Arts in special studies in sociology (group B) and in general studies (politics).

Monday 11 to 12.

A more detailed study of selected countries, together with some general aspects of government, e.g. federalism.

COMPARATIVE PUBLIC ADMINISTRATION 2

For the degree of Bachelor of Arts in special studies in sociology (group B) and in general studies (politics).

Tuesday 10 to 11.

The subjects of Comparative government 2 with particular reference to the United States of America, France, the Dominions and certain of the less developed countries.

INTERNATIONAL RELATIONS 2

As an optional subject for the degree of Bachelor of Arts in special studies in sociology (group B).

One hour a week in the 3rd term.

An introduction to the study of international relations. The concepts of the sovereign state, international law, and the balance of power. The growth of international institutions for the limitation of conflict and promotion of co-operation.

INTERNATIONAL RELATIONS 3

As an optional subject for the degree of Bachelor of Arts in special studies in sociology (group B).

A study of the nature and action of major forces that account for the dynamic quality of international relations. The changing ingredients of national power; the growth of industrialism and an international economy; the nationalist idea and other ideologies affecting relations between peoples. Methods of limiting conflict and regulating change, with particular reference to the development of international organisation.

COLONIAL GOVERNMENT AND ADMINISTRATION

As an optional subject for the degree of Bachelor of Arts in special studies in sociology (group B).

Third year; 1 hour a week.

The development of colonial government in the Commonwealth, with particular reference to the growth of parliamentary institutions and local government. Comparative colonial administration, selected British colonies being given more detailed treatment.

THE GOVERNMENT OF THE U.S.A.

As an optional subject for the degree of Bachelor of Arts in special studies in sociology (group B).

Third year; Tuesday 10 to 11.

The development of the Constitution. The Presidency, Congress, the Supreme Court, political parties, relations between the Federal government and the states. Local government.

URBAN STUDIES

For the degree of Bachelor of Arts in special studies in sociology.

Four terms beginning in the 2nd term of the 2nd year; 1 hour a week.

The process of urbanization. Its social, economic and political significance. Comparative material on world urbanization. The social structure of cities. Social relationships in cities. The adaptation of basic social institutions to the urban context.

SOCIOLOGY OF RELIGION

For the degree of Bachelor of Arts in special studies in sociology.

Four terms beginning in the 2nd term of the 2nd year; 1 hour a week.

The character of religious institutions, doctrines and authority, and their relationship to social structure. Theories of the social functions of religion.

SOCIOLOGY OF COLONIES

For the degree of Bachelor of Arts in special studies in sociology (group D).
Optional.

One hour a week.

The changing structure of colonial societies in Africa. The social institutions of the slave trade; new societies on the frontier; chartered companies and Christian missions in the opening up of Africa; the plural society in East, Central and South Africa; the social consequences of economic development; the sociology of African Nationalism; the one-party state.

POLITICAL SOCIOLOGY

For the degree of Bachelor of Arts in special studies in sociology (groups B or D) and in political studies. Optional.

One hour a week.

Relation between political action and social structure; relation between politics and sociology. Social stratification and political power. Social movements and economic development. The political aspects of social change; the sociology of revolutions. Political parties; their social basis, organisation and ideology. Modern political movements. The study of voting behaviour.

SOCIAL ADMINISTRATION 2

For the diploma in social studies.

Thursday 2 to 3

The evolution of the concept of welfare. The scope and purpose of modern social services and their relation to community ideals and individual needs. A discussion of specialised services to meet the needs of particular groups.

SOCIAL ADMINISTRATION 3

For the diploma in social studies. Graduate students.

One hour a week.

The development of the social services and the emergence of the idea of the welfare state in Great Britain in the twentieth century. A survey of the scope of the statutory social services and their relation to individual, family and community needs. The role of voluntary organisations.

SOCIAL ECONOMICS 1

For the diploma in social studies. Graduate students.

One hour a week.

An introduction to social economics covering demand, distribution, the national income and its redistribution through taxation and the social services.

SOCIAL ECONOMICS 2

For the diploma in social studies.

One hour a fortnight.

A continuation of the subjects studied in Social economics 1.

ELEMENTS OF ENGLISH LAW

For the diploma in social studies.

First year; one hour a week.

The nature and classification of law. The courts. Administrative tribunals. The sources of law. Civil and criminal procedure. Elementary treatment of

SOCIAL STUDIES

the law of evidence, contract, personal property, and succession. Particular attention will be given to those aspects of the law which are of special interest to social workers.

ELEMENTS OF PHYSIOLOGY

For the diploma in social studies. Graduate students.

First year; $1\frac{1}{2}$ hours a week.

An outline of physiological systems. The general pattern of reproduction.

Growth of the individual. The endocrine glands. Nutrition and metabolism.

General principles of cardiovascular and neuro-physiology as illustrated by a single specific example.

HISTORY AND PRINCIPLES OF SOCIAL WORK

For the diploma in social studies. Graduate students.

First year; $1\frac{1}{2}$ hours a week.

Social need and the emergence of forms of social help at various stages in our history, particularly as they relate to present-day thinking on assistance and the modern social services. The functions of and co-ordination between the different services and the aims and principles underlying and directing their work.

ELEMENTS OF SOCIAL HISTORY

For the diploma in social studies. Graduate students.

Ten lectures in the 1st term.

The development of legislation affecting the social services against the background of the economic and social changes which have taken place in Britain since the mid-eighteenth century.

LOCAL GOVERNMENT

For the diploma in social studies.

Second year; 1 hour a fortnight.

An examination of the functioning of the central government and its relations with local government, in greater detail than was possible in the course on The Government of Great Britain 1, which students will be expected to have attended.

ELEMENTS OF SOCIAL MEDICINE

For the diploma in social studies.

Second year; 2 hours a week.

Relationship between heredity and health and disease. Environmental influences affecting health and disease. Maturation and health and disease.

PSYCHOLOGY

For the diploma in social studies.

One hour a week.

An outline of developmental social psychology. Psychology applied to practical situations, e.g. industrial, vocational guidance, etc.

ELEMENTS OF SOCIOLOGY

For the diploma in social studies.

One lecture a week.

The method and approach of sociology and the comparative study in outline

ECONOMIC AND SOCIAL STUDIES

of principal features of social organisation; the family; economic structure; political structure; social stratification; social control; systems of knowledge and belief.

PRINCIPLES AND PRACTICE OF SOCIAL WORK

For the diploma in social studies.

Second year; 1½ hours a week.

Principles and methods of helping individuals in need and of enabling groups to function for an agreed purpose. Seminars by discussion group method using students' own materials from practical work experience and observation; prepared and edited case and group work records, social work records and social work articles.

PSYCHIATRIC ASPECTS OF SOCIAL CASEWORK

For the diploma in social studies.

Second year; a weekly class.

THE FACULTY OF LAW

ORDINANCE IV

DEGREES IN LAW

1. The degrees in law shall be:

Bachelor of Laws (LL.B.)
Master of Laws (LL.M.)
Doctor of Philosophy (Ph.D.)
Doctor of Laws (LL.D.)

THE DEGREE OF BACHELOR OF LAWS

2. The degree of Bachelor of Laws shall be conferred either as an ordinary degree or as a degree with Honours.

3. All candidates for the degree of Bachelor of Laws shall be required to have passed the examination for matriculation except such as may have been exempted therefrom, and thereafter to have pursued approved courses 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 may proceed to the final examination for the degree of Bachelor of Laws after pursuing approved courses of study in law for not less than two years.

4. Every candidate for the degree of Bachelor of Laws, whether ordinary or with Honours, shall be required to attend approved courses of study, and to pass the prescribed examinations.

5. The prescribed examinations shall ordinarily be held in June of each year.

6. All candidates shall be required, before presenting themselves for a prescribed examination, to furnish certificates testifying that they have regularly attended the course of study approved for such examination. Some modification of the amount of attendance required may, in exceptional cases, be made by the Senate.

7. The following provisions shall apply to the degree of Bachelor of Laws with Honours:

- (a) Every candidate for the degree of Bachelor of Laws with Honours shall be required to present himself for examination not later than the end of the third or fourth academic year from the time when he has entered upon one of the courses of instruction approved by the University for such degree unless he shall present a medical certificate of illness satisfactory to the Senate.
- (b) Candidates who have passed the final examination for the ordinary degree of Bachelor of Laws may, on furnishing certificates of having attended the approved course or courses for the degree with Honours which are not approved courses for the ordinary degree, present

themselves for examination for the degree of Bachelor of Laws with Honours.

- (c) No candidate for the degree of Bachelor of Laws with Honours shall be admitted more than once to examination in the Honours school of law, but students who have passed the final examination in any of the other Honours schools of the University may be admitted to the final examination in the Honours school of law after the expiration of two years, on presenting certificates of having attended, during the period in question, courses approved by the University.

8. Candidates who have passed the examination for the degree of Bachelor of Laws with Honours may be awarded:

- (a) the degree of Bachelor of Laws with first-class Honours;
 - or (b) the degree of Bachelor of Laws with second-class Honours, division (i);
 - or (c) the degree of Bachelor of Laws with second-class Honours, division (ii);
 - or (d) the degree of Bachelor of Laws with third-class Honours;
- each class being arranged in alphabetical order.

9. Candidates who do not merit the award of an Honours degree may be excused the whole or such part of the examination for the ordinary degree as the Senate may determine.

[See also the regulations on page 414.]

THE DEGREE OF MASTER OF LAWS

10. The degree of Master of Laws may be conferred, on payment of the proper fee, upon registered Bachelors of Laws, when of not less than one year's standing from the date of their graduation as Bachelors, subject to the conditions contained in the following paragraphs.

11. Bachelors of Laws may proceed to the degree of Master of Laws on presenting a dissertation satisfactory to the Senate on a subject approved by the Board of the Faculties of Arts, Economic and Social Studies and Law. A copy of the dissertation approved for the degree will be retained in the University Library.

12. All candidates may be called upon to present themselves for an examination, written, oral, or both, in the theme of their dissertation.

13. The names of candidates who have passed the examination for the degree of Master of Laws shall be arranged in alphabetical order without distinction of classes.

14. Graduates in law or persons who have passed the final examination for a degree in law of other approved universities shall, if they present evidence satisfactory to the Senate that they are qualified to pursue a course of advanced study or research, be permitted to enter the University and become candidates for the degree of Master of Laws, without taking the degree of Bachelor of Laws, after not less than two years of such advanced study or research.

15. Such candidates shall be required to fulfil the following conditions:

- (a) To be registered as students of the University
- (b) To pursue a course of advanced study or research extending over not less than two years under the supervision of the head of the department

- (c) To attend a course or courses of lectures at the University for at least one year, if required by the professor of law
- (d) To pay the fees prescribed for such candidates.

16. They shall be further required to give evidence to the Senate at the end of the first year of their period of study that their work has been satisfactory, and at the end of their second, or subsequent years, they shall be required to present a dissertation, and to satisfy such further test, if any, as the Senate shall deem expedient. They may be called upon to present themselves for an examination, written, oral, or both, in the theme of their dissertation.

[See also the regulations on page 415.]

THE DEGREE OF DOCTOR OF PHILOSOPHY

[The degree of Doctor of Philosophy is governed by ordinance II, articles 50 to 52 and relevant regulations which are set out on pages 279 and 289.]

THE DEGREE OF DOCTOR OF LAWS

17. 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.

18. 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.

19. 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.

[See also the regulations on page 415.]

REGULATIONS

THE ORDINARY DEGREE OF BACHELOR OF LAWS

1. Every candidate, subject to concessions to graduates under article 3 of ordinance IV, shall be required after passing the examination for matriculation or obtaining exemption therefrom, to attend courses as follows:

(a) In his first year of study, courses on:

- (i) Constitutional law
- (ii) The English legal system
- (iii) Roman law
- (iv) The elements of the law of contract
- (v) The elements of the law of torts

(b) In his second and third years of study, courses on:

- (i) Contract
- (ii) Torts
- (iii) Equity
- (iv) Criminal law
- (v) Legal history
- (vi) Jurisprudence
- (vii) The land law

2. Every candidate shall, subject to the concessions to graduates above mentioned, satisfy the examiners in the following prescribed examinations:

(a) After the completion of his first year of study he shall be examined as follows:

- (i) In constitutional law (1 paper)
- (ii) In the English legal system (1 paper)
- (iii) In Roman law (1 paper)
- (iv) In the elements of the law of contract (1 paper)
- (v) In the elements of the law of torts (1 paper)

(b) After the completion of his third year of study he shall be examined as follows:

- (i) In the law of contract (1 paper)
- (ii) In the law of torts (1 paper)
- (iii) In equity (1 paper)
- (iv) In criminal law (1 paper)
- (v) In legal history (1 paper)
- (vi) In jurisprudence (1 paper)
- (vii) In the land law (1 paper)

3. No candidate shall be permitted to enter upon the second year of his course until he has satisfied the examiners in the examination prescribed at the end of his first year of study.

4. After the second year of study, students will be required to take a departmental examination in the law of torts, equity, contract, the land law and criminal law.

BACHELOR OF LAWS

5. Candidates for the final examination will be required to present themselves for examination or re-examination in all the prescribed subjects in a single examination at the same time. Except with the special permission of the Senate they will not be permitted to present themselves for examination separately in any one of the papers of the final examination.

THE DEGREE OF BACHELOR OF LAWS WITH HONOURS

6. In addition to the approved courses for the ordinary degree, a candidate for Honours will also be required to attend courses in public international law and private international law.

7. In addition to the prescribed papers for the ordinary degree, a candidate for Honours will also be required to take an examination in public international law (1 paper) and in private international law (1 paper).

THE DEGREE OF MASTER OF LAWS

8. A candidate shall not be permitted to submit as his thesis one 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 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 DEGREE OF DOCTOR OF LAWS

9. 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.

10. 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 IN THE FACULTY OF LAW

The following is a list of courses of lectures given in the Faculty of Law. The information concerning each course is given under four headings. The name of the course comes first, followed by the year of the student's career in which the course is normally attended and the days upon which and the times at which lectures are normally given. A brief indication is given of the content of the course and, where appropriate, particulars of the examination set on the subject matter.

Further details and lists of prescribed books with additional information concerning the relation of degree courses in law to professional qualifications and requirements will be found in the prospectus *The Faculty of Law*.

CONSTITUTIONAL LAW

First year; Tuesday, 11 to 1.

A general survey of modern constitutional and administrative law and of English constitutional history; a comparative study of the constitutions of the principal member states of the Commonwealth of Nations and a study of the legal structure of the Commonwealth as a whole.

Examination: 1 paper.

THE ENGLISH LEGAL SYSTEM

First year; Monday, 2 to 4.

A survey of English legal institutions, their origins and development.

Examination: 1 paper.

ROMAN LAW

First year; Wednesday, 11 to 1.

A study of the sources of Roman law and of the general principles of Roman private law and procedure.

Examination: 1 paper.

THE ELEMENTS OF THE LAW OF CONTRACT

First year; Friday, 10 to 11.

An introductory study of the law of contract.

Examination: 1 paper.

THE ELEMENTS OF THE LAW OF TORTS

First year; Tuesday, 11 to 12.

An introductory study of the law of torts.

Examination: 1 paper.

CONTRACT

Second year; Monday, 11 to 12.

Continued study of certain aspects of the law of contract.

Examination: 1 paper.

COURSES

CRIMINAL LAW

Second year; Tuesday, 10 to 11.

General principles of criminal law.

Examination: 1 paper.

TORTS

Second year; Wednesday, 11 to 12.

Continued study of certain aspects of the law of torts.

Examination: 1 paper.

EQUITY

Second year; Wednesday, 12 to 1.

Preliminary study of equity.

Examination: 1 paper.

SALE OF GOODS

Second year; Thursday, 12 to 1.

A study of the law of sale of goods.

Examination: This subject to be included in the contract paper in the final examination for the degree of Bachelor of Laws.

PRIVATE INTERNATIONAL LAW

Third year at times to be arranged.

General principles of private international law.

Examination: 1 paper (for *Honours* students only).

LAND LAW

Second year; Tuesday, 2 to 4.

Elements of the land law.

Examination: 1 paper.

CONTRACT

Third year; Monday, 2 to 3.

Advanced study of certain aspects of the law of contract.

Examination: 1 paper.

TORTS

Third year; Thursday, 12 to 1.

Advanced study of certain aspects of the law of torts.

Examination: 1 paper.

LEGAL HISTORY

Third year; Monday, 2 to 4.

Aspects of the history of English law.

Examination: 1 paper.

JURISPRUDENCE

Third year; Tuesday, 11 to 12.

Philosophy of law, sources of law and discussion of fundamental legal principles.

Examination: 1 paper.

LAW

EQUITY

Third year; Thursday, 12 to 1.

Advanced study of equity.

Examination: 1 paper.

PUBLIC INTERNATIONAL LAW

Third year; Thursday, 2 to 4.

General principles of public international law.

Examination: 1 paper (for *Honours* students only).

LAND LAW

Third year; Tuesday, 2 to 4.

Advanced study of the land law.

Examination: 1 paper.

AGENCY AND NEGOTIABLE INSTRUMENTS

Second year; at times to be arranged (B.Com. students only).

A survey of the law of agency and negotiable instruments.

Examination: 1 paper of one and a half hours.

LAW OF BANKRUPTCY

Third year; at times to be arranged (B.Com. students only).

The general principles of the law of bankruptcy.

Examination: 1 paper of one and a half hours.

TRUST ACCOUNTS

First year; at times to be arranged (optional).

The law and practice of trust accounting.

BOOK-KEEPING

First year; at times to be arranged (optional).

The general theory of book-keeping and of its application to the books of solicitors in accordance with the Solicitors' Accounts Rules, 1945.

FORENSIC MEDICINE

Second year; Monday, 12 to 1.

A study of the principles of forensic medicine of general interest to legal practitioners.

THE FACULTY OF SCIENCE

ORDINANCE V

DEGREES IN PURE SCIENCE

1. The degrees in pure science shall be:
 - Bachelor of Science (B.Sc.)
 - Master of Science (M.Sc.)
 - Doctor of Philosophy (Ph.D.)
 - Doctor of Science (D.Sc.)

THE DEGREE OF BACHELOR OF SCIENCE

2. The degree of Bachelor of Science 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 sufficient standard in the examinations.

3. Candidates may proceed to the degree of Bachelor of Science by means of courses either in general studies or in special studies.

4. 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, and thereafter to have pursued approved courses of study for not less than three academic years.

5. With the permission of the Board of the Faculties of Science and Technology, a candidate may transfer from the course leading to the degree of Bachelor of Science in special studies to that leading to the degree of Bachelor of Science in general studies or *vice versa*.

6. 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 final examination at the end of the third or fourth academic year from the time when he has entered upon one of the courses of study approved by the University for the degree.
- (b) A candidate failing in the final examination for the degree of Bachelor of Science will not be allowed to present himself for re-examination on more than one occasion.
- (c) A candidate who does not pass the 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 Science later than the end of the fifth academic year after his entry upon the approved course of study.
7. (a) Candidates who have passed the final examination for the degree of Bachelor of Science may be awarded:
 - (i) the degree of Bachelor of Science with first-class Honours,
 - or (ii) the degree of Bachelor of Science with second-class Honours, first division,
 - or (iii) the degree of Bachelor of Science with second-class Honours, second division,

- or (iv) the degree of Bachelor of Science with third-class Honours, or (v) the degree of Bachelor of Science.
- (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 Science in special studies shall be published in such form as to distinguish the school of special studies in which each has passed.

8. A candidate who has been awarded the degree of Bachelor of Science in general studies or in special studies may not present himself a second time for the same examination.

9. A candidate who has completed the courses and passed the final examination prescribed for the degree of Bachelor of Science in general studies may, with the permission of the Senate given on the recommendation of the Board of the Faculties of Science and Technology, present himself for the examination for the degree of Bachelor of Science in any school of special studies after the expiration of one year or not more than two years, if during this period he has attended approved courses of study.

10. A candidate who has passed the final examination for the degree of Bachelor of Science in any of the schools of special studies may, with the permission of the Senate given on the recommendation of the Board of the Faculties of Science and Technology, present himself for the examination for the degree of Bachelor of Science in any other school of special studies or for the final examination for the degree in general studies, after the expiration of one year or not more than two years, if during this period he has attended approved courses of study.

[See also the regulations on page 424.]

THE DEGREE OF BACHELOR OF SCIENCE IN GENERAL STUDIES

11. Except in so far as he may be exempted under the provision of article 12 below, every candidate shall be required to attend satisfactorily a total of at least nine Introductory and General courses, of which at least five shall be General courses; and to pass the prescribed examinations. The General courses must include (a) courses in not less than three subjects and (b) not less than two General courses in each of two of these subjects.

12. Exemption may be granted from attendance at, and examination on, one or more of the Introductory courses on the ground of an adequate performance at the advanced level in the General Certificate of Education or other equivalent examination provided that every candidate shall attend and shall present himself for examination on a total of not less than seven Introductory and General courses in the University, of which at least five shall be General courses.

13. At the end of his course a candidate will be required to present himself for an examination which will be based on the work of not less than two General courses in each of two subjects.

14. Candidates shall select their subjects from among those specified in the regulations for the degree of Bachelor of Science in general studies, provided:

(a) that each candidate shall include a course in mathematics or in physics or in chemistry unless exempted from such a course under regulation 9

(b) that within the required minimum [see articles 11 and 12]:

(i) no candidate may include more than three approved one-year courses in Faculties other than Science;

(ii) not more than two of the courses in Faculties other than Science are Introductory courses or of first-year standard.

[See also the regulations on page 424.]

THE DEGREE OF BACHELOR OF SCIENCE IN SPECIAL STUDIES

15. A candidate for the degree of Bachelor of Science in special studies shall be required to attend an approved course of study extending over not less than three academic years in one of the schools of special studies hereafter enumerated.

16. A candidate for the degree of Bachelor of Science in special studies may present himself for examination in any one of the following schools of special studies, namely:

Mathematics	Human and comparative
Physics	anatomy
Chemistry	Bacteriology
Zoology	Biochemistry
Botany	Pharmacology
Geology	Pharmacy
Psychology	Geography
Physiology	

[See also the regulations on page 424.]

THE DEGREE OF MASTER OF SCIENCE

17. The degree of Master of Science may be conferred, on payment of the proper fee and subject to the conditions laid down in articles 18 and 19:

(a) Upon Bachelors in any Faculty of the University of not less than two years' standing; provided that Bachelors of Science who have graduated with first-class or second-class Honours may be allowed, on the recommendation of the head of the department concerned, to proceed to the degree at an earlier date if they have prosecuted approved research in the University for a period of not less than one calendar year.

(b) Upon persons approved by the Senate who have been awarded, not less than two years before proceeding to the degree, an approved diploma in applied science in the University.

(c) Upon graduates of other universities, who have been accepted by the Senate as candidates for the degree of Master of Science, and who have prosecuted approved research in the University for a period extending over not less than six terms.

- (d) Upon persons whose qualifications by study in an approved institution have been accepted by the Senate in lieu of a degree, and who have prosecuted approved research in the University for a period extending over six terms or more, as determined by the Senate in each case.
- (e) Upon persons who are not graduates, or who have not passed the final examination for a degree of an approved university, but who have satisfied the Senate that their educational attainments are adequate and who have pursued a course of advanced study and have prosecuted research in the University for a period extending over not less than nine terms.
- (f) In special cases, upon Bachelors of Science of the University who have graduated in the school of mathematics and who have over a period of not less than two years followed a course of study approved by the Board of the Faculties of Science and Technology.

[Persons who wish to avail themselves of paragraphs (b), (d) or (e) of article 17 should refer also to statute 13, ordinance IX and the regulations regarding matriculation which are set out in the University *Calendar*. Holders of the following approved diplomas will be considered for acceptance for the degree of Master of Science, subject to the approval of the Senate:

The diplomas in agriculture, in civil engineering, in mechanical engineering, in electrical engineering, in mining engineering, in fuel and metallurgy, in gas engineering, in chemical engineering, in dyeing, in colour chemistry, in leather manufacture, in textile industries.]

18. Candidates for the degree of Master of Science shall in all cases, except those accepted under article 17 (f), prosecute research on a subject approved by the Board of the Faculties of Science and Technology, and shall thereafter present to the Senate a thesis embodying the results of their research. They shall also submit themselves to an examination if required.

Candidates accepted under article 17 (f) shall submit themselves to an examination which will consist of not less than four written papers, and, if the examiners so decide, an oral examination.

19. Candidates who are accepted under article 17, paragraphs (c), (d) and (e) may obtain permission from the Senate to spend a part of the period prescribed in acquiring a competent knowledge of a new subject provided that the whole of the last three terms is devoted to postgraduate study and research.

20. 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.

[See also the regulations on page 426.]

THE DEGREE OF DOCTOR OF PHILOSOPHY

The degree of Doctor of Philosophy is governed by ordinance II, articles 50 to 52 and relevant regulations which are set out on pages 279 and 289.

DOCTOR OF SCIENCE

THE DEGREE OF DOCTOR OF SCIENCE

21. 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.

22. 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.

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 427.]

DIPLOMAS

24. 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.

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

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

[See also page 444.]

REGULATIONS

THE DEGREE OF BACHELOR OF SCIENCE

1. Candidates will not be admitted to courses for the degree of Bachelor of Science unless they have satisfied the examination requirements for entry upon degree courses as determined by the Joint Matriculation Board.

2. All intending candidates must comply with any special requirements laid down in relation to the subjects they propose to study; for some of these previous knowledge of certain subjects is required.

3. The examinations will ordinarily be held in June of each year. Examinations on Introductory courses will also be held in September, but, except with the special permission of the Senate, no candidate will be admitted to a September examination unless he has already presented himself for the corresponding examination in the preceding June.

4. Candidates will not be permitted to present themselves for examination in any subject unless they have regularly attended the prescribed course and performed the work of the class to the satisfaction of the professor or lecturer.

5. Candidates for the degree of Bachelor of Science must present themselves for the departmental examinations arranged in connection with any course they may take.

6. The record of students at their departmental examinations may be taken into account in deciding the results of degree examinations.

7. Candidates may, with the consent of the dean of the Faculty in the case of degrees in general studies or of the head of the department in the case of degrees in special studies, present subjects more in number and higher in grade than those required by the ordinance. Such additional subjects need not be confined to those prescribed in the regulations for the degree of Bachelor of Science.

8. Candidates presenting themselves for degree examinations on two or more General courses in the same subject and failing to pass therein may on the recommendation of the examiners be deemed to have passed on a smaller number of General courses.

9. Subject to the provisions of article 12 of the ordinance, candidates for the degree of Bachelor of Science may be exempted by the Board of the Faculties of Science and Technology from the Introductory courses and corresponding examinations in the subjects already passed at the advanced level in the General Certificate of Education or in an equivalent examination, provided that they have passed the examination at a sufficiently high standard.

Applications for such exemptions should be made by candidates for the degree in special studies to the head of the department directing those studies, and by candidates for the degree in general studies, to the dean of the Faculty of Science.

10. Courses in subjects which may be taken for the degree of Bachelor of Science in general studies will be of two kinds:

- (a) Introductory courses each extending over one session
- (b) General courses each extending over one session.

BACHELOR OF SCIENCE

II. The subjects in which courses are approved for the degree of Bachelor of Science in general studies are as follows:

(a) In the Faculty of Science

Introductory courses in

Mathematics	Botany
Statistics	Geography
Physics	Geology
Chemistry	Russian
Zoology	History and philosophy of science

General courses in

Mathematics	Geology
Statistics	Physiology
Physics	Bacteriology
Chemistry	Biochemistry
Zoology	Russian
Botany	History and philosophy of science
Geography	

(b) In the Faculty of Arts

Introductory courses in

Greek	Portuguese
Latin	History
Hebrew	Philosophy
Arabic	History and philosophy of science
Aramaic and Syriac	Phonetics
English	Music
Icelandic	Fine art
French	Philosophy and history of religion
German	Biblical studies
Italian	Psychology
*Russian	
Spanish	

General courses in

†Greek	Russian
†Latin	Spanish
Hebrew	†Portuguese
Arabic	†History
English literature	Philosophy
English language and medieval English literature	History and philosophy of science
†Icelandic	Music
French	Philosophy and history of religion
German	Biblical studies
Italian	Psychology
	Fine art

*See page 462.

†In this subject it is not permitted to take only one General course; two General courses must be taken in consecutive years.

REGULATIONS

(c) In the Faculty of Economic and Social Studies

Introductory courses in

Economics

Industrial relations

Sociology

Anthropology

General courses in

*Economics

*Industrial relations

*Sociology

Anthropology

(d) In the Faculty of Technology

Introductory courses in

Engineering

Mining

Coal gas and fuel industries

General courses in

Engineering

Agricultural chemistry

Coal gas and fuel industries

Agricultural bacteriology

Agricultural botany

Agricultural zoology

Mining

12. A course extending over one year for the degree of Bachelor of Science in special studies may, with the sanction of the Board of the Faculties of Science and Technology, be accepted as a one-year course for the degree of Bachelor of Science in general studies.

13. Normally a candidate must have passed the examinations on all his Introductory courses by the end of the second year of study; only with the special permission of the Senate, given on the recommendation of the Board of the Faculties of Science and Technology, will a candidate be allowed to present himself for examination on an Introductory course after the end of the second year of study.

14. Normally, a candidate must not proceed to any General course in a subject until he has passed the examination on, or been exempted from, the appropriate Introductory course in that subject.

15. After taking one or more General courses in a subject, a candidate will not normally be permitted to proceed to a more advanced General course in that subject unless he has attained a satisfactory standard in such departmental examinations as may have been held on the preceding General courses.

THE DEGREE OF MASTER OF SCIENCE

16. Candidates admitted under the provisions of article 17, paragraphs (a) or (b) of the ordinance must present a thesis, † and satisfy such further test, if any, as the Senate shall deem expedient. They may be called upon to present

* In this subject it is not permitted to take only one General course; two General courses must be taken in consecutive years.

† It is advisable for graduates of the University who pursue research elsewhere to consult the head of the appropriate department in the University before submitting for approval by the Board a subject of research for the degree of Master of Science.

themselves for an examination (written, or oral, or both) in the theme of their thesis. Candidates admitted under the provisions of article 17, paragraphs (c), (d) or (e) must fulfil the following conditions:

- (a) To be registered as students of the University.
- (b) To pursue a course of advanced study or research under the supervision of the head of the department concerned.
- (c) To give evidence to the Senate at the end of the first year of their period of study that their work has been satisfactory, and at the end of their course to present a thesis, and to satisfy such further test, if any, as the Senate shall deem expedient.

They may be called upon to present themselves for an examination (written, or oral, or both) on the theme of their thesis.

The examination for candidates admitted under article 17(f) shall consist of not less than four written papers on the two branches of mathematics in which they have pursued an approved course of study.

17. A candidate must not submit as his thesis one 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 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.

18. A copy of the thesis approved for the degree will be retained in the University library.

THE DEGREE OF DOCTOR OF PHILOSOPHY

The degree of Doctor of Philosophy is governed by Ordinance II, articles 50 to 52, and relevant regulations which are set out on pages 279 and 289.

THE DEGREE OF DOCTOR OF SCIENCE

19. 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.

REGULATIONS

EXAMINATIONS

20. The examinations will ordinarily be held in June of each year, but supplementary examinations in introductory subjects will also be held in September. Candidates will be accepted for the supplementary examinations in any subject only with the special permission of the Senate. Every candidate will be required to present himself at the degree examination in each subject at the end of the session in which he has completed his course of study in that subject, unless he has obtained the permission of the Board of the Faculties of Science and Technology to defer his examination.

21. In addition to the degree examinations, departmental examinations will be held at times and on conditions determined by the head of the department concerned. All students studying for a degree are required to submit themselves to such departmental examinations in their subjects of study. In courses extending over more than one session students may not begin the more advanced work of a succeeding session unless they have done the work required throughout the course to the satisfaction of the head of the department and have passed the departmental examinations.

22. Entries for the June examinations—both degree and departmental—shall in all cases be made through the Registrar. Only those students whose lecture and laboratory attendances are approved by the heads of departments concerned and whose entry forms are received before 30 January, will be admitted to the examinations.

[Attention is drawn to the general regulations for all examinations set out on page 229.]

PREScribed SCHEMES OF STUDY FOR THE DEGREE OF BACHELOR OF SCIENCE

MATHEMATICS

Special studies

In order to secure admission to the school of special studies in mathematics a candidate must either (i) reach a high standard at the advanced level in the General Certificate of Education examination in the double subject Mathematics and Theoretical Mechanics (of the Joint Matriculation Board) or an equivalent standard in some other examination of comparable scope; or (ii) reach a high standard in the General Certificate of Education examination in the single subject Mathematics at the advanced level (also of the Joint Matriculation Board) or an equivalent standard in some other examination. In 1961 and subsequently these requirements will be met by a high standard of performance in (i) A26 and A27 of the Joint Matriculation Board, or the equivalent or (ii) in A26 of the Joint Matriculation Board, or the equivalent. Apart from this no special choice of subjects is necessary, as the University regulations permit almost any subject to be taken as the required additional subject; in particular, intending students are not required to have had a preliminary training in statistics. Some knowledge of physics and of modern languages is nevertheless desirable. Exemption from Introductory Mathematics is essential for entry.

The scheme of study, which extends over three years for an entrant qualified as in (i) above, and four years for an entrant qualified as in (ii) above, will include, in addition to the special studies courses in mathematics (see pages 445 and 447), the Introductory course in statistics and one subject other than mathematics, selected after consultation with the head of the department of mathematics from those approved under regulation 11 for the degree of Bachelor of Science in general studies. The subject must be taken for two years unless exemption has been granted from the appropriate Introductory course. Each student will be given an opportunity for specialisation in appropriate branches of mathematics in his third year.

General studies

Schemes of study will be arranged in accordance with the ordinance and regulations governing the degree of Bachelor of Science in general studies. There are three combinations of courses, namely (i) mathematics group A [pure mathematics with mechanics], (ii) statistics, (iii) mathematics group B [pure mathematics with statistics]. Of mathematics group A and statistics, either may be offered as a single subject or they may be offered together as two subjects. Mathematics group B may be taken as a single subject but not in conjunction either with mathematics group A or with statistics.

Mathematics group A:

- Mathematics Introductory
- Mathematics General 1A
- Mathematics General 2A
- Mathematics General 3A

SCHEMES OF STUDY

Mathematics General 3A may be taken by candidates who have been exempted from Mathematics Introductory and who have taken Mathematics General 1A and Mathematics General 2A in their first two years of study.

Mathematics group B:

Mathematics Introductory

Mathematics General 1B

Mathematics General 2B

Statistics:

Statistics Introductory

Statistics General 1

Statistics General 2

PHYSICS

Special studies

Those wishing to enter the school of special studies in physics should have a good general background in arts as well as in science, and should have shown promise in their chosen field by good performances at advanced level in physics and mathematics. A previous study of chemistry at least up to ordinary level is also desirable. Most physicists will find it advantageous to have made some initial study of more than one foreign language before entering the University.

The normal scheme of study, which extends over three years, may be entered upon by those who have passed, at a sufficiently high level, the examinations of the Introductory courses in both physics and mathematics, or have been exempted from the examinations on these courses. In special cases candidates may be accepted for a scheme in special studies to extend over four years. Alternatively, students who are not qualified by their record in physics and mathematics to start on the three-year scheme may apply for admission to a general studies scheme, and include Introductory Physics and Introductory Mathematics in their first year of study. At the end of the first year, if their performance is sufficiently good, they may apply to transfer to the special studies scheme in physics which will require three further years.

For acceptance for the normal three-year scheme, exemption from Introductory Physics and Mathematics is essential. This will be granted on the basis of a good performance in advanced level papers in these subjects. Mathematics may be taken (i) as a single subject, provided that it includes both pure and applied mathematics, or (ii) as a double subject. In the syllabus of the Joint Matriculation Board, for example, a good performance will be required in one of the following:

(i) Mathematics with Alternative (A25), or

(ii) Mathematics and Theoretical Mechanics (A27).

In 1961 and subsequently the corresponding Joint Matriculation Board syllabus will be:

(i) Mathematics (A26) or

(ii) Mathematics (A26) taken under Further Mathematics (A26).

PHYSICS

The normal scheme of study will be as follows:

First year

Physics S1

Mathematics P1

An introductory or one-year course in Russian for science students, philosophy, geology or an approved alternative subject.

Second year

Physics S2

Mathematics P2

Third year

Physics S3

Candidates in their second year must take an approved additional course chosen from those available in any of the Faculties. Candidates in their third year may be advised to take appropriate further short courses in mathematics or other subjects.

General studies

Schemes of study will be arranged in accordance with the ordinance and regulations governing the degree of Bachelor of Science in general studies. The following notes are relevant to the physics component when courses in physics are taken.

The scheme of study may include:

Physics Introductory 1A or Physics Introductory 1B

Physics General G1A

Physics General G2

Physics General G3.

Each course extends over one year and the courses would normally be taken successively.

CHEMISTRY

Special studies

Those wishing to enter the special studies school of chemistry must have attained a good standard in chemistry and in either physics or mathematics (pure and applied) at the advanced level in the examination for the General Certificate of Education. A limited number of students who, although otherwise promising, do not possess all these qualifications—including those of proved ability who have not specialised in science at school—may be admitted to a four-year course leading to the degree in special studies.

The three-year scheme is for students with a good foundation in mathematics, physics and chemistry whose standard in these subjects justifies exemption from introductory courses in chemistry and in at least one of the other two subjects. Other candidates are accepted for the four-year scheme (see previous paragraph). Suitable candidates who have not previously studied chemistry may be accepted for the four-year scheme; alternatively they may apply for admission

to the general studies scheme and, if they attain a sufficient standard, apply for transfer to special studies in chemistry at the end of their first year in the University; the total length of their degree course would be at least four years.

Courses for the first two years of this scheme will be arranged according to the qualifications and needs of individual students. Those for the penultimate and final years will be the same as those for the last two years of the three-year scheme.

Exemptions in chemistry and either physics or mathematics are necessary for entry upon the three-year scheme. Except in very special circumstances exemption in chemistry is required for entry upon the four-year scheme.

The scheme of study will be as follows:

The special studies lecture courses in chemistry (see page 451) and laboratory work
 Physics Introductory
 Mathematics Introductory

At least two additional courses selected after consultation with the chairman of the school of chemistry. One must be in physics or mathematics or the history and philosophy of science, the other(s) may be in physics or mathematics or in some other subject cognate to chemistry.

Candidates for the degree in special studies in chemistry must satisfy the examiners in elementary written comprehension tests in German and in one other foreign language approved by the chairman of the school of chemistry. Any language in which there is a substantial scientific literature will normally be approved as the second language. Dictionaries may be used in the examination which is held twice a year and which may be taken at any stage in the undergraduate's career. No candidate will be presented for a degree with Honours in chemistry unless he has passed both parts of the language examination.*

General studies

Schemes of study will be arranged in accordance with the ordinance and regulations governing the degree of Bachelor of Science in general studies. The following notes are relevant to the chemistry component when courses in chemistry are taken.

The scheme of study may include:

Chemistry Introductory
 Chemistry Gi
 Chemistry Gp
 Chemistry Go.

For the degree in general studies after passing or after exemption from Chemistry Introductory, one, two or all three of the General courses may be taken. If only two General courses are taken one of them must normally

* Elementary courses are provided in German and Russian for science students with no previous knowledge of these languages. See pp. 461 and 462.

CHEMISTRY

be Chemistry Go; the combination of Chemistry Gi and Chemistry Gp is allowed only in special circumstances and with the special permission of the chairman of the school of chemistry.*

BOTANY

Special studies

A good knowledge of the physical sciences is indispensable to any candidate for the special studies degree in botany and therefore at least one, and preferably two, of the basic subjects—chemistry, physics and mathematics—should be studied as a principal subject in the last years at school. A knowledge of languages is very desirable, and an interest in plants that has been acquired out of school in activities such as gardening, or working with a local natural history society, is an asset. A specialised knowledge of botany itself as a school subject is not essential.

No exemptions are essential for the four-year scheme of study. Exemption from Introductory Chemistry is, however, a great asset to any student and exemption from at least one other Introductory course, together with a good performance in biology (or botany) is needed before the three-year scheme can be attempted.

The scheme of study will be as follows:

First year

- Botany Introductory
- Physics Introductory or Mathematics Introductory
- Chemistry Introductory
- A course in one other subject

Second year

- Botany G1
- A course in one other subject, normally Chemistry Go

Third year

- Botany G2
- Botany G3
- A course in one other subject, normally Chemistry Gp

Fourth year

- Botany G3 [alternative content]
- Statistics
- Microbiology
- Plant pathology
- Intensive short courses on selected topics.

General studies

Schemes of study will be arranged in accordance with the ordinance and regulations governing the degree of Bachelor of Science in general studies. The following notes are relevant to the botany component when courses in botany are taken.

* A candidate taking more than one General course in chemistry must offer at least two such courses in his final examination.

The scheme of study may include:

Botany Introductory
Botany G1
Botany G2
Botany G3
Botany G5.

Botany G1 and Botany G2 are given in alternate years. One or both may be taken. Botany G3 and Botany G5 are alternative courses available only to candidates who take both Botany G1 and Botany G2.

ZOOLOGY

Special studies

Those wishing to specialize in zoology should have an interest in natural history, including field work, and some knowledge of the physical sciences. Chemistry, physics or mathematics, biology, or botany and zoology should therefore be among the subjects taken at school. A reading knowledge of one or more modern foreign languages is desirable. Biology as such is not a subject recognised for study in the University and hence cannot give exemption from first-year courses, but it provides a valuable introduction and training for university work. On the other hand, exemption from first-year zoology can rarely be given as, among other reasons, there are usually not the facilities outside a university for adequate experience and practice in laboratory work.

The length of the degree course will be three years if exemption is given from all the required first-year subjects; otherwise four years. It is, however, advisable to apply for admission to a general studies scheme including at least Introductory Chemistry, Botany and Zoology in the first year and, if successful, to apply at the end of the first year for transfer to the special studies scheme in zoology, lasting a further three years.

For the four-year scheme, no exemptions are essential; but in order to complete the course for the degree in three years, a candidate must have exemption from Introductory Chemistry and Zoology, and from two other Introductory courses which must include either Introductory Physics or Mathematics.

The scheme of study will be as follows:

First year

Zoology Introductory
Chemistry Introductory
Two other one-year courses, normally Botany Introductory and Physics Introductory.

Second and third years

Zoology G1, G2, and G3 (in the third year only)

Either a course extending over two further years in one of the subjects taken in the first year (see above) *or* a course extending over one year in each of two subjects which need not have been taken in the first year.

Fourth year

Zoology S with advanced study of special branches of the subject.
A reading knowledge of French and German is required.

General studies

Schemes of study will be arranged in accordance with the ordinance and regulations governing the degree of Bachelor of Science in general studies.

The following notes are relevant to the zoology component when courses in zoology are taken.

The scheme of study may include:

Zoology Introductory

Zoology G₁

Zoology G₂

Zoology G₃

At least two General courses, G₁ and G₂, must be taken, and when G₃ is added it is taken in the third year.

Special studies

GEOLOGY

The scheme of study will be as follows:

First year

Geology Introductory

Three of

Chemistry Introductory

Physics Introductory

Mathematics Introductory

Zoology Introductory

Botany Introductory

Second year

Geology S₁

A general course in *one* of the subjects taken in the first year

Third year

Geology S₂

Surveying

Fourth year

Geology S₃

A geological investigation of a specific area, including geological mapping and the presentation of a field report.

A reading knowledge of French and German is required and will be tested by examination.

General studies

Complete schemes of study will be arranged in accordance with the ordinance and regulations governing the degree of Bachelor of Science in general studies. The following note is relevant to the geology component when courses in geology are taken.

The scheme of study may include:

Introductory Geology

Geology G_{1A}, G_{1B} or G_{1C}

Geology G₂.

SCHEMES OF STUDY

Students wishing to take only *one* general course in Geology will take, in their second year, Geology G1A or G1B.

Students wishing to take *two* general courses in Geology will take Geology G1C in the second year and Geology G2 in the third year.

PSYCHOLOGY

Special studies

First year

Psychology Introductory

together with *three* of the following, chosen in consultation with the head of the department:

Chemistry Introductory

Mathematics Introductory

Physics Introductory

Zoology Introductory

General economics

Introduction to sociology

Russian for science students

Another approved subject

Candidates must normally pass the examinations on the courses taken in the first year before proceeding to any second-year courses.

Second year

Psychology (Developmental and experimental)

Neuro-anatomy

Statistics

Physiology G1A

The examination in physiology is an integral part of the final examination and the results obtained will be taken into account in considering the candidates' results in the final degree examination.

Candidates will not be allowed to proceed to the third year of the course unless the results obtained in the examinations held at the end of the second year are satisfactory to the head of the department.

Third and fourth years

1. Sensation and perception
 2. Heredity and 'Individual differences'
 3. Memory and learning
 4. Language and thinking
 5. Personality and social relations
 6. Defect and abnormality
 7. Philosophy and history of psychology
 8. Applications of psychology
- together with experimental work throughout each session.

Final examination

Six papers together with three practical examinations and an oral examination.

PHYSIOLOGY

Special studies

Entry to the course in physiology is through two channels.

Scheme B: Medical students may study the subject for a further year after completing the 2nd M.B., Ch.B. examination at a high standard.

Scheme A: Other students make a direct entry to Scheme A. They should take chemistry and physics at advanced level in the General Certificate of Education. No other subject is essential, but some knowledge of biology is advantageous.

Scheme A occupies four years and Scheme B adds one year to the normal M.B., Ch.B. course. Exceptionally well qualified candidates may be granted exemption from Introductory Physics, Chemistry and Zoology, and thus be enabled to complete Scheme A in three years, but it is advisable to consult the head of the department about this question.

Exemption from Introductory Chemistry and Physics lightens the course for the non-medical student and allows advanced study at an earlier stage of additional subjects which are required for the course, to the benefit of the student's physiological studies.

The schemes of study will be as follows:

Scheme A

First year

Physics Introductory

Chemistry Introductory

Zoology Introductory

Second year

Physiology G1

Chemistry G0 and Gp

Third year

Physiology G2

Physiology S

Fourth year

Physiology S.

In addition candidates must take courses in one other subject for three years or in two other subjects for two years. These courses must have been completed before the beginning of the candidates' fourth year of study. The subjects must be selected after consultation with the head of the department from the following:

To be studied for three years: chemistry, physics, botany, zoology or anatomy.

To be studied for two years: chemistry, physics, botany, zoology or bacteriology.

Candidates who do not study anatomy as one of the other subjects must take the medical course in histology in the department of anatomy in the second or third year.

SCHEMES OF STUDY

Scheme B

On the recommendation of the professor of physiology and of the Board of the Faculties of Science and Technology, suitably qualified students may be admitted to the school of special studies after passing the second examination for the degrees of Bachelor of Medicine and Bachelor of Surgery. They may qualify for the degree of Bachelor of Science in special studies in physiology after one year spent entirely in the study of Physiology S.

A reading knowledge of French and German is required in both scheme A and scheme B.

General studies

Complete schemes of study will be arranged in accordance with the ordinance and regulations governing the degree of Bachelor of Science in general studies. The following notes are relevant to the physiology component when courses in physiology are taken.

The scheme of study may include:

Physiology G1A

Physiology G1

Physiology G2.

Physiology G1 and Physiology G2 must be taken successively. Physiology G1A or Physiology G1 must be complemented by further courses in organic and physical chemistry.

Candidates may not take both Physiology G1A (or G1) and Biochemistry G1 but they may take Biochemistry G2A and/or Biochemistry G2B in the year after they have attended and passed the departmental examination in Physiology G1A or G1.

ANATOMY

Special studies

The study of anatomy for a science degree in the University may be pursued in two ways.

Scheme B: The commoner method is for a medical student to prolong his studies in anatomy for a year after the completion of the 2nd M.B., Ch.B. examination and before entering the clinical phase of the medical course. During this year anatomy is studied without any medical bias and attention is primarily devoted to embryology, histology and neurology. The course lasts twelve months and during this period students are given opportunities to take short courses in other subjects, such as anthropology and biomolecular structure.

Scheme A: For direct entry into the four-year scheme for special studies in anatomy, Introductory Physics, Chemistry, Zoology and Botany are studied in the first year. Hence a preliminary study of some or all of these subjects is desirable.

ANATOMY

The length of the degree course will be four years for Scheme A; three years where exemptions from Introductory Physics, Chemistry, Zoology and Botany are granted.

Exemption from Introductory Chemistry and Physics is desirable but not essential.

The schemes of study will be as follows:

Scheme A

First year

Physics Introductory
Chemistry Introductory
Zoology Introductory
Botany Introductory

Second year

Anatomy 1
Another subject approved by the professor of anatomy

Third year

Anatomy 2
Another subject approved by the professor of anatomy

Fourth year

Anatomy 3.

Scheme B

On the recommendation of the professor of anatomy and of the Board of the Faculties of Science and Technology, suitably qualified students may be admitted to the school of special studies after passing the second examination for the degrees of Bachelor of Medicine and Bachelor of Surgery. They may qualify for the degree of Bachelor of Science in special studies in anatomy after one year spent entirely in the study of Anatomy 3.

A reading knowledge of French and German which will be tested by examination is required in both scheme A and scheme B.

BACTERIOLOGY

Special studies

The school training should include physics, chemistry, mathematics, and preferably also French and German. As the scheme includes an introductory year of study in botany or zoology the study of these subjects at school is less important, and it is probable that the pupil's time would be better spent in those studies which are basic for all science. A knowledge of modern languages is important to enable the student to read more widely in this subject.

Exemption from Introductory Chemistry and Physics is desirable but not essential. When such exemptions are granted students will probably take a more advanced course in chemistry during their first year of study.

SCHEMES OF STUDY

The scheme of study will be as follows:

First year

Physics Introductory
Chemistry Introductory or Chemistry Go
Zoology Introductory
Botany Introductory

Second year

Bacteriology G₁
Chemistry Go or G_p
Physiology G₁ or G_{1A} or Physics G₁ or Botany G_{1A} or a
General course in zoology or other approved course

Third year

Bacteriology G₂
Chemistry G_p or a selected special studies course in chemistry
Physiology G_{1A} or G₂ or Botany G_{1A} or a General course in
zoology or other approved course

Fourth year

Special studies courses in bacteriology and research work.

A reading knowledge of French and German is required and will be tested by examination.

General studies

Complete schemes of study will be arranged in accordance with the ordinance and regulations governing the degree of Bachelor of Science in general studies. The following notes are relevant to the bacteriology component when courses in bacteriology are taken.

The scheme of study may include:

Bacteriology G₁
Bacteriology G₂.

General courses in this subject must be preceded by courses in botany or zoology, and chemistry.

BIOCHEMISTRY

Special studies

A good standard of performance in chemistry at advanced level in the General Certificate of Education is essential so that candidates may qualify for exemption from Introductory Chemistry; candidates should also have taken zoology, botany or biology at advanced level, although those who have not taken a biological science at school but have attained a good standard at advanced level in mathematics and physics in addition to chemistry may be accepted. Passes at ordinary level in both physics and mathematics are necessary.

At present entry is very competitive as only a limited number of places are available each year, and candidates would find it advantageous to take some scholarship papers in the General Certificate of Education examination.

The scheme of study will be as follows:

First year

Chemistry G_i

- Chemistry Gp
- Physiology Gr
- Second year
 - Chemistry Go
 - Physiology G2
 - An optional subject
- Third year
 - Biochemistry S1
 - Tutorials and essays
- Fourth year
 - Biochemistry S2
 - Tutorials and essays
 - An individual practical investigation

General studies

Complete schemes of study will be arranged in accordance with the ordinance and regulations governing the degree of Bachelor of Science in general studies. The following note is relevant to the biochemistry component when courses in biochemistry are taken.

The scheme of study may include:

- Biochemistry G1
- Biochemistry G2A
- Biochemistry G2B (chemical microbiology).

Candidates may not take both Physiology G1A (or G1) *and* Biochemistry G1 but candidates who have attended and passed the departmental examination in Physiology G1A (or G1) may, in the following year, take Biochemistry G2A and/or Biochemistry G2B without having taken Biochemistry G1.

PHARMACOLOGY AND PHARMACY

Special studies

Students are first admitted to a three-year course specialising in pharmacy (with pharmacology) and leading to a degree which may be awarded with Honours in pharmacy. Successful candidates who show ability in pharmacology in this course may be selected for an additional year's study of the subject, leading to a further examination on the results of which Honours in pharmacology may be awarded.

To be considered for entry to the schools of special studies in pharmacology and pharmacy candidates must have attained at the advanced level in the General Certificate of Education examination, or its equivalent:

- (a) a pass in physics
- (b) an approved standard (higher than the pass mark) in chemistry
- and (c) *either* an approved standard (higher than the pass mark) in biology *or* an approved standard (higher than the pass mark) in zoology together with a pass in botany.

SCHEMES OF STUDY

The schemes of study will be as follows:

Scheme A

First year

Chemistry Go
Chemistry Gp
Pharmacognosy 1
Pharmaceutics 1

Second year

Pharmacognosy 2
Pharmaceutics 2
Histology
Physiology G1A
Pharmaceutical chemistry 1
Pharmacology 1
Statistics

Third year

Pharmaceutics 3 (including bacteriology and statistics)
Pharmaceutical chemistry 2
Pharmacology 2.

Special studies in Pharmacology

Fourth year

Pharmacology 3.

Scheme B

On the recommendation of the professor of pharmacology and of the Board of the Faculties of Science and Technology suitably qualified students may be admitted to the special studies school of pharmacology either after passing the third examination for the degrees of Bachelor of Medicine and Bachelor of Surgery, or after graduating as Bachelors of Medicine and Surgery. They may qualify for the degree of Bachelor of Science in special studies in pharmacology after spending one year entirely in the study of pharmacology.

A reading knowledge of French and German is required in both scheme A and scheme B and will be tested by examination.

GEOGRAPHY

Special studies

The scheme of study is similar to that prescribed for the degree of Bachelor of Arts [see page 326] subject to the following modifications:

For acceptance into the special studies school of geography all candidates must normally fulfil the requirements laid down in the regulations prescribing

schemes of study for the degree of Bachelor of Arts in special studies in geography but within those requirements candidates for the degree of Bachelor of Science must also have achieved a good standard in at least one approved science subject taken at the advanced level in the General Certificate of Education examination, and at least a pass at the ordinary level in mathematics, and must have a reading competence, which will be tested during the course, in at least one modern foreign language.

In the first academic year the subjects of the two additional Introductory courses required must be chosen from those in which courses are approved for the degree of Bachelor of Science in general studies. Geology will normally be one of these subjects, the other being chosen with the approval of the head of the department of geography. Normally Introductory courses will be taken in both subjects but, subject to the approval of the Board of the Faculties of Science and Technology, candidates who have passed the examination for the General Certificate of Education at the advanced level at a sufficiently high standard may be exempted from one Introductory course and may take, instead, a General course in that subject.

In the second academic year the approved course additional to geography must be in a subject in the Faculty of Science and will normally be a General course in one of the subjects studied in the first year.

In the third academic year candidates for the degree of Bachelor of Science are required to select the two papers on special aspects of geography from the range:

Problems of geomorphology
Advanced cartography
Geography of planning

General studies

Complete schemes of study will be arranged in accordance with the ordinance and regulations governing the degree of Bachelor of Science in general studies. When courses in geography are taken, the scheme of study may include:

Geography Introductory
Geography G1
Geography G2

Details of these courses will be found on page 372.

MATHEMATICS AND PHILOSOPHY

Regulations prescribing the scheme of study for the degree of Bachelor of Arts in combined studies in mathematics and philosophy will be found on page 295.

PREScribed SCHEMES OF STUDY FOR POSTGRADUATE DIPLOMAS

ELECTRONIC COMPUTING

The course will extend over one session.

To be qualified to enter on the course a candidate should normally possess a degree with Honours in mathematics or in a pure or applied science, or in approved cases, in a social science; or should possess an equivalent qualification.

A candidate will be required:

1. To attend courses of lectures on:
 - (a) Mathematical methods
 - (b) Numerical analysis
 - (c) Programming for electronic computers
 - (d) The logical design of computers
2. To carry out practical work using the electronic computer under the supervision and direction of the staff of the mathematical laboratory
3. To submit for the approval of examiners appointed by the University a short dissertation on the practical work carried out and
4. To satisfy the examiners in the examinations held at the conclusion of the course.

A diploma with distinction may be awarded to a student whose work is judged to be of outstanding merit.

HISTORY AND PHILOSOPHY OF SCIENCE

Candidates wishing to enter upon the course 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) Logic and 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.

COURSES IN THE FACULTY OF SCIENCE

The following pages give information concerning courses given in the Faculty of Science. The information is arranged by subjects and an indication is given of the degrees or other qualifications for which the courses are normally attended. Enquiries should be addressed to the sub-dean of the Faculties of Science and Technology, to the tutor of women students or to the appropriate head of department.

The name of each course is given first and is followed by the year of the student's career in which the course is normally attended, followed by the days on which and, where sufficiently firmly established, the hours at which lectures are normally given. There is a brief indication of the content of the course and finally, where appropriate, particulars of the examination set on the subject matter. The scope of many examinations is, however, often wider than that of any one course.

MATHEMATICS

For students taking a degree course in a subject or subjects other than mathematics, who are not expecting to proceed to more advanced mathematics courses in the University.

AUXILIARY MATHEMATICS

First year; Tuesday 4 to 5 and Wednesday 9 to 10 (pure), and Monday 9 to 10 (applied).

Fundamental formulæ of trigonometry and algebra; analytical geometry; calculus. Elementary statics and dynamics.

Examination: 1 paper on pure mathematics and 1 on applied.

For the degrees of Bachelor of Science in general and special studies and in applied science and Bachelor of Arts in general and special studies.

MATHEMATICS INTRODUCTORY

Acceptance requirement: At least ordinary level mathematics in the General Certificate of Education examination.

First year; Monday, Tuesday, Wednesday and Friday, 9 to 10.

Algebra, calculus, geometry, statics and dynamics.

Examination: 2 papers.

STATISTICS INTRODUCTORY

Acceptance requirement: A sufficiently high standard in Advanced level pure mathematics in the General Certificate of Education examination, or an equivalent qualification.

First year; Tuesday, Wednesday and Friday, 9 to 10.

Elementary treatment of statistical data; introduction to problems of sampling.

Examination: 2 papers.

COURSES

For the degrees of Bachelor of Science and Bachelor of Arts in general studies

MATHEMATICS GENERAL 1A

First or 2nd year; Monday, Wednesday and Friday, 12 to 1 (pure); Tuesday and Thursday, 12 to 1 (applied).

Algebra, plane and solid geometry, calculus.

Statics, dynamics and hydrostatics.

Examination: 2 papers.

MATHEMATICS GENERAL 2A

Second or 3rd year; Monday, Wednesday and Friday, 10 to 11 (pure); 12 to 1 (applied).

More advanced calculus, differential equations, Fourier series, analytical geometry of three dimensions, spherical trigonometry. Computation.

Vectors, advanced statics, particle dynamics, rigid dynamics in two dimensions, Lagrange's equations.

Examination: 3 papers covering both Mathematics General 1A and Mathematics General 2A.

MATHEMATICS GENERAL 3A

Third year; 4 hours a week at times to be arranged.

Selected topics in pure and applied mathematics.

Examination: 4 papers covering Mathematics General 1A, 2A and 3A.

MATHEMATICS GENERAL 1B

First or 2nd year; Monday, Wednesday and Friday, 12 to 1 (pure); Tuesday and Thursday, 12 to 1 (statistics).

Algebra, calculus, plane and solid geometry [as for Mathematics General 1A].

Elementary treatment of statistical data; introduction to problems of sampling.

Examination: 3 papers.

MATHEMATICS GENERAL 2B

Second or 3rd year; Wednesday and Friday, 10 to 11 (pure); Tuesday and Thursday, 10 to 11, Friday, 3 to 5 (statistics).

More advanced calculus, differential equations, Fourier series; analytical geometry of three dimensions; spherical trigonometry; [as for Mathematics General 2A, but excluding computation]. Analysis of variation; sampling theory of Gaussian distribution, interpretation of experimental data and arrangement of field trials, merits of alternative sampling schemes, correlation, statistical computation.

Examination: 3 papers covering both Mathematics General 1B and Mathematics General 2B.

STATISTICS GENERAL 1

Second year; Tuesday and Thursday, 10 to 11 and Friday, 3 to 5.

Analysis of variation; sampling theory of Gaussian distribution; interpretation of experimental data and arrangement of field trials; merits of alternative sampling schemes; correlation; statistical computation.

Examination: 2 papers.

MATHEMATICS

STATISTICS GENERAL 2

Third year; Tuesday and Thursday, 10 to 11; Friday, 9 to 10 and Monday 3 to 5.

Some or all of: Theory of estimation, multiple regression, biological assay, complex experiments, further applications of sampling theory, introduction to electronic computers and computing methods.

Examination: 3 papers covering both Statistics General 1 and Statistics General 2.

For the degrees of Bachelor of Science and Bachelor of Arts in special studies

MATHEMATICS S₁

First year; 8 hours a week at times to be arranged.

Algebra, calculus and differential equations, plane and elementary solid geometry, statics, hydrostatics and dynamics.

MATHEMATICS S₂

Second year; 10 hours a week at times to be arranged.

Algebra, advanced calculus and analysis, plane and solid analytical geometry, theory of potential dynamics and three-dimensional statics, functions of mathematical physics, history of mathematics, statistics.

Examination: 1 paper on pure mathematics, 1 on applied mathematics and 1 on statistics and history. A candidate who fails in the last of these will normally be required to retake it at the end of his third year.

MATHEMATICS S₃

Third year; 9 hours a week at times to be arranged.

Analysis, algebra and either electromagnetism or hydrodynamics; also either two or three other courses, selected in consultation with the head of the department of mathematics from a list which will in any one year include some or all of higher analysis, abstract algebra, algebraic geometry, higher differential geometry, topology, mathematical logic; hydrodynamics*, electromagnetism*, advanced dynamics and statistical mechanics, aerodynamics, relativity; computation, mathematical methods, statistics 1, statistics 2; or as may be arranged.

Students taking aerodynamics must also take hydrodynamics; students specializing in applied mathematics will normally take computation; and statistics 2 will normally be taken only in conjunction with statistics 1.

Examination: 2 papers on the subject-matter of Mathematics S₂, 3 on the compulsory courses of S₃, and either 2 or 3 on the optional courses.

For the degree of Bachelor of Science in special studies in physics

MATHEMATICS P₁

First 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.

* If not already taken as a compulsory course.

COURSES

MATHEMATICS P₂

Second year; Monday, Wednesday and Friday, 10 to 11 and 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, special theory of relativity.

Examination: 3 papers.

For the degree of Bachelor of Science in applied science

MATHEMATICS T₁

Second year; either Monday, Wednesday, Friday, 10 to 11 (pure) and Monday, Wednesday, 12 to 1 (applied), or Monday, Wednesday, Friday, 10 to 11 (pure) and Tuesday, Thursday, 12 to 1 (applied), or Monday, Tuesday, Thursday, 9 to 10 (pure) and Wednesday, Friday, 9 to 10 (applied).

Calculus, differential equations, complex numbers, determinants, analytical geometry of three dimensions, Fourier series. Computation. More advanced statics, particle and rigid dynamics in two dimensions.

Examination: 3 papers (one pure, one computation, one applied).

MATHEMATICS T₂

Third year; Tuesday and Thursday, 10 to 11 (pure), Monday and Wednesday, 10 to 11 (applied).

Calculus and analysis; vector analysis and related topics, advanced dynamics; statistics.

Examination: 2 papers.

STATISTICS T

Third year; Wednesday, 11 to 12.

Elementary statistical methods, applications of probability theory.

Examination: 1 paper.

For the degree of Bachelor of Science with Honours in agricultural botany, agricultural chemistry and agricultural economics, and for the postgraduate diploma in agriculture (farm management)

STATISTICS DA₁

Postgraduate; Tuesday, 9 to 11.

Principles of statistics; analysis of variance, tests of significance, correlation and regression.

For the diploma in public health

STATISTICS DPH₁

Postgraduate; 2 hours a week at times to be arranged. 2 terms only.

Medical uses of elementary statistical methods.

PHYSICS

For the degrees of Bachelor of Science in general studies and in applied science and Bachelor of Arts in general studies

PHYSICS INTRODUCTORY 1A

First year; Tuesday and Thursday, 10 to 11; Friday, 2 to 3, or Saturday, 10 to 11; and 3 hours' laboratory work a week at times to be arranged.

PHYSICS

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. The course is suitable for those who have, before entry, studied physics up to the advanced level in the General Certificate of Education and mathematics at least up to the ordinary level.

Examination: 1 paper and a practical examination.

PHYSICS INTRODUCTORY 1B

First year; Tuesday and Thursday, 12 to 1; Friday, 2 to 3, or Saturday, 10 to 11; and 3 hours' laboratory work a week at times to be arranged.

Content and examination: As for Physics Introductory 1A above.

PHYSICS G1A

First or 2nd year; Monday, Wednesday and Friday, 11 to 12; and a minimum of 3 hours' laboratory work a week at times to be arranged.

The course is intended for general studies students, and such other students as expect to proceed to further courses in physics. The main themes are: matter; waves; electricity.

Examination: 2 papers and a practical examination.

PHYSICS G1B

Year, day and time: As for Physics G1A.

The course is similar to Physics G1A in providing a general survey of the main fields of classical and modern physics, but it is complete in itself.

Examination: As for Physics G1A.

PHYSICS G2

Second or 3rd year; Monday and Friday, 2 to 3; Thursday, 11 to 12; and 5 hours' laboratory work a week at times to be arranged.

The themes introduced in Physics G1, namely matter and energy, waves and particles, electricity, are developed and extended.

Examination: 2 papers and a practical examination covering Physics G1 and Physics G2.

PHYSICS G3

Third or 4th year; 3 lecture hours and 5 hours' laboratory work a week at times to be arranged.

Certain sections of the special studies courses and other lectures are prescribed to meet the needs and interests of individual students.

Examination: 3 papers and a practical examination covering Physics G1, Physics G2 and Physics G3.

For the degree of Bachelor of Science in special studies

PHYSICS S1

First year; Monday, Wednesday and Friday, 11 to 12; Tuesday, 2 to 3; 8 hours' laboratory work a week and tutorial classes at times to be arranged.

Atomic and molar physics, vibrations and wave optics, electricity and magnetism, heat.

Examination: 2 papers and a practical examination.

COURSES

PHYSICS S₂

Second year; Monday, 9 to 10; Monday, Tuesday, Wednesday and Friday, 11 to 12; Tuesday, 10 to 11; and 10 hours' laboratory work a week, including Thursday, 9 to 1 and 2 to 5.

Thermodynamics, electricity and electronics, mechanical, electrical and magnetic properties of matter, optics, atomic and nuclear physics.

Examination: 2 papers and a practical examination.

PHYSICS S₃

Third year; 6 lectures and 12 hours' laboratory work a week at times to be arranged.

Quantum mechanics, statistical mechanics, nuclear physics, electromagnetic theory, experimental principles and techniques.

Examination: 4 papers and a practical examination. The examination requirements are subject to modification. Candidates will be notified early in the session of any changes.

For the degree of Bachelor of Music

ACOUSTICS

First or 2nd years: Thursday, 2 to 3.

The physical basis of music approached experimentally rather than mathematically.

CHEMISTRY

For the degrees of Bachelor of Science in general studies and in applied science and Bachelor of Arts in general studies

CHEMISTRY INTRODUCTORY A

[1]

First year; Monday, Wednesday and Friday, 12 to 1; and laboratory work at times to be arranged.

Examination: 1 paper and a practical examination.

CHEMISTRY INTRODUCTORY B

[2]

First year; Tuesday, 11 to 12; Thursday and Saturday, 9 to 10; and laboratory work at times to be arranged.

Examination: 1 paper and a practical examination.

Candidates who have passed in chemistry and in either physics or mathematics at the Advanced level in the examination for the General Certificate of Education will normally take course number 2 if their timetable permits. Other candidates will normally take course number 1.

CHEMISTRY G_i (INORGANIC CHEMISTRY)

[3]

First, 2nd or 3rd year; Monday, Wednesday and Friday, 10 to 11; and laboratory work at times to be arranged.

Examination: 1 paper and a practical examination.

CHEMISTRY

CHEMISTRY Gp (PHYSICAL CHEMISTRY) [4]
Candidates who wish to take this course are recommended to obtain a knowledge of elementary physics before doing so.

First, 2nd or 3rd year; Tuesday, Thursday and Saturday, 10 to 11; and laboratory work at times to be arranged.

Examination: 1 paper and assessment of the year's practical work.

CHEMISTRY Go (ORGANIC CHEMISTRY) [5]
First, 2nd or 3rd year; Tuesday and Thursday, 12 to 1; Friday, 4 to 5; and laboratory work at times to be arranged.

Examination: 1 paper and a practical examination.

For the degree of Bachelor of Science in applied science

CHEMISTRY T [6]

Second or 3rd year; Tuesday, Thursday and Saturday, 10 to 11.

There is no laboratory work in connection with this course.

Examination: 1 paper.

CHEMISTRY T (PHYSICAL) [7]

Second year.

Examination: 1 paper and assessment of the year's practical work.

For the degree of Bachelor of Science in special studies

CHEMISTRY I1 [8]

First year; 2 hours a week at times to be arranged.

Elementary inorganic and structural chemistry.

CHEMISTRY P1 [9]

First year; 2 hours a week at times to be arranged.

Elementary physical chemistry.

In addition to the lecture periods for courses numbers 8 and 9 there will be a total of one hour a week of informal instruction.

CHEMISTRY O1 [10]

First year; 1 hour a week at times to be arranged.

Elementary organic chemistry.

CHEMISTRY I2 (INORGANIC) [11]

Second year; 3 hours a week at times to be arranged.

CHEMISTRY P2 (PHYSICAL) [12]

Second year; 3 hours a week at times to be arranged.

CHEMISTRY O2 (ORGANIC) [13]

Second year; Monday, 4 to 5; Thursday and Saturday, 9 to 10.

CHEMISTRY S3 (INORGANIC AND PHYSICAL) [14]

Third year; 3 hours a week at times to be arranged; one hour a week during the second term will be spent in an informal seminar.

Solids and liquids, electrochemistry, spectroscopy, elementary statistical thermodynamics and reaction kinetics.

COURSES

CHEMISTRY O₃ (ORGANIC)

[15]

Third year; Monday, Wednesday and Thursday, 11 to 12.

Laboratory work in connection with the above courses for the degree in special studies at times to be arranged.

SCIENTIFIC METHOD

[16]

Second and 3rd years; at times to be arranged.

Principles of scientific method and the development of scientific ideas.

For the degrees of Bachelor of Medicine and Bachelor of Surgery

CHEMISTRY 1st M.B. (PRELIMINARY)

[17]

The lecture course will be that of course number 1 (see page 450).

CHEMISTRY 2nd M.B. (ORGANIC)

[18]

First year (for candidates exempted from 1st M.B.); 2nd year (for candidates who take course number 17 in the first year); at times to be arranged.

CHEMISTRY 2nd M.B. (PHYSICAL)

[19]

First year (for candidates exempted from 1st M.B.); 2nd year (for candidates who take course number 17 in the first year); lectures, Monday, 4 to 5, Tuesday and Thursday, 9 to 10; laboratory work, Tuesday and Thursday, 10 to 1. Saturday, 9 to 12.

For the degree of Bachelor of Dental Surgery and the diploma in dental surgery

CHEMISTRY AND PHYSICS OF DENTAL MATERIALS

[20]

Second year; 1st term; 10 lectures at times to be arranged; laboratory periods up to a maximum of ten.

BOTANY

For the degrees of Bachelor of Science and Bachelor of Arts in general studies

BOTANY INTRODUCTORY A

First year; Tuesday, 2 to 5 and Thursday, 9 to 10, 11 to 1.

Life cycles of annual and perennial plants; vegetative propagation; sexual reproduction. Morphology, anatomy and physiology of herbaceous and woody plants. Special nutrition. Life cycles of some lower plants. Introduction to cytology, genetics and taxonomy.

Examination: 1 paper and a practical examination.

BOTANY INTRODUCTORY B

First year; Tuesday and Thursday, 9 to 10, and either 11 to 1 or 10 to 12.

Form, structure, development and life history of some illustrative examples of lower and higher plants together with an elementary introduction to experimental physiology and the principles of classification.

Examination: 1 paper and a practical examination.

BOTANY

For the degrees of Bachelor of Science and Bachelor of Arts in general studies and Bachelor of Science in special studies

BOTANY G₁

Second or 3rd years; 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.

Comparative morphology of algae and fungi. Angiosperm anatomy. Physiology of growth and water and salt relations. Cytology and heredity. Green algae [3rd year students]; ecology and systematics [2nd year students].

Examination: 1 paper and a practical examination.

This course is given in alternate years. It *will* be given in 1960-61.

BOTANY G₂

Second or 3rd years; Monday and Friday, 9 to 10; Wednesday, 10 to 11; and laboratory work as for Botany G₁.

Comparative anatomy and morphology of bryophyta, pteridophyta, gymnospermae. Physiology of growth and metabolism. Green algae [3rd year students]; ecology and systematics [2nd year students].

Examination: 3 papers and 3 practical examinations covering Botany G₁ and Botany G₂.

This course is given in alternate years. It *will not* be given in 1960-61.

BOTANY G₃

Third year; Monday and Friday, 3 to 4; and 6 hours' laboratory work at times to be arranged.

Selected parts of the courses for the degree of Bachelor of Science in special studies. The content differs in alternate years. Topics include advanced cytogenetics, advanced ecology, plant geography, biophysics, growth, elementary plant pathology, etc.

Examination: 1 paper and a practical examination.

For the degrees of Bachelor of Science and Bachelor of Arts in general studies

BOTANY G₅

Third year; Monday and Friday, 3 to 4; and 2 hours' laboratory work a week at times to be arranged.

Selected parts of the courses for the degree of Bachelor of Science in special studies in conjunction with Zoology G₅ which is complementary.

Examination: 1 paper.

For the degree of Bachelor of Dental Surgery and the diploma in dental surgery

BOTANY D

First year; Wednesday and Saturday, 9 to 10, 10 to 12.

Morphology and anatomy of herbaceous and woody plants. Selected life cycles. Physiology. Flower structure. Elementary systematics and genetics.

Examination: 1 paper and a practical examination.

COURSES

Botanical museum

In the departmental museum are included the Ingham herbarium of mosses and the Cryer and Roper herbaria of British flowering plants together with other collections which have been presented to the University.

ZOOLOGY

For the degrees of Bachelor of Science in general and special studies and in applied science, Bachelor of Arts in general studies, Bachelor of Medicine, Bachelor of Surgery, and Bachelor of Dental Surgery and the diploma in dental surgery

ZOOLOGY INTRODUCTORY

First year; general and special studies and Honours in the agricultural sciences: Monday and Friday, 11 to 12; laboratory work, Tuesday, 2 to 4, and Wednesday, 10 to 12. [1st M.B., Ch.B.: lectures and laboratory work, Friday, 9 to 12 and 2 to 5. 1st B.Ch.D. and L.D.S. and B.Sc. in agriculture: lectures, Monday and Friday, 11 to 12; laboratory work, Monday and Thursday, 2 to 4].

Elementary comparative anatomy and physiology, an introduction to histology, reproduction and development, genetics and evolution.

Examination: 1 paper and a practical examination.

For the degrees of Bachelor of Science in general studies and special studies, and Bachelor of Arts in general studies

ZOOLOGY G₁

Second or 3rd year; Wednesday, 9 to 10; Tuesday and Thursday, 11 to 12; laboratory work, Tuesday and Thursday, 2 to 5.

Systematic and comparative anatomy of vertebrates. Evolution, cytology and genetics, entomology, parasitology and embryology.

Examination: 1 paper and a practical examination.

This course is given in alternate years. It *will* be given in 1960-61.

ZOOLOGY G₂

Second or 3rd year; Wednesday, 9 to 10; Tuesday and Thursday, 11 to 12; laboratory work, Tuesday and Thursday, 2 to 5.

Systematic and comparative anatomy of invertebrates. Evolutionary theory, animal physiology, experimental zoology, ecology and animal behaviour.

Examination: 1 paper and a practical examination.

This course is given in alternate years. It *will not* be given in 1960-61.

ZOOLOGY G₃

Third year; Tuesday, 10 to 11; Wednesday, 11 to 12; laboratory work, Monday and Friday, 2 to 5.

Advanced work in comparative physiology, entomology, parasitology, genetics, ecology and histology.

Examination: 1 paper and a practical examination.

ZOOLOGY

For the degree of Bachelor of Science in special studies

Zoology S, with advanced studies for the fourth year arranged at the beginning of each session.

For the diploma in public health

PARASITOLOGY AND GENETICS

Year, day and time: to be arranged.

GEOLOGY

For the degrees of Bachelor of Science in general studies, and Bachelor of Arts in general studies

GEOLOGY INTRODUCTORY

First year; 6 hours a week, Monday and Friday, at times to be confirmed.

An introduction to the principles of geology.

Examination: 1 paper and a practical examination.

GEOLOGY G1A

Second year; 8 hours a week at times to be arranged.

Stratigraphical geology, palæontology (A), geological map interpretation.

Examination: 2 papers and 2 practical examinations.

GEOLOGY G1B

Second year; 8 hours a week at times to be arranged.

Stratigraphical geology, mineralogy (optical and systematic), geological map interpretation.

Examination: 2 papers and 2 practical examinations.

GEOLOGY G1C*

Second year; 8 hours a week at times to be arranged.

Stratigraphical geology, palæontology (B), optical mineralogy, geological map interpretation.

Examination: 2 papers and 2 practical examinations.

GEOLOGY G2*

Third year, 8 hours a week at times to be arranged.

Sedimentology, petrography, mineral deposits, geological map interpretation.

For the degree of Bachelor of Science in special studies

GEOLOGY S1

Second year; 12 hours a week at times to be arranged.

Stratigraphical geology, palæontology, mineralogy, geological map interpretation.

Examination: 2 papers and 3 practical examinations.

* Provisional.

COURSES

GEOLOGY S₂*

Third year; 16 hours a week at times to be arranged.

Petrology and petrography, paragenetical mineralogy and mineral deposits, geochemistry, evolutionary and stratigraphical palaeontology, sedimentology, structural geology, advanced geological map interpretation.

Examination: 3 papers and 4 practical examinations.

GEOLOGY S₃*

Fourth year; at times to be arranged.

Advanced study of geological subjects and short courses on special branches.

Examination: 6 papers and 5 practical examinations.

For the degree of Bachelor of Science in special studies in geology or mining, or for the postgraduate diploma in applied geophysics.

STRUCTURAL GEOLOGY

Third year; 2 hours a week.

An amplification of Economic geology (mining).

For the degree of Bachelor of Science in applied science

GEOLOGY INTRODUCTORY (ENGINEERS)*

Four hours a week at times to be arranged.

An introduction to the principles of geology as applied to civil engineering.

Examination: 1 paper and a practical examination.

GEOLOGY INTRODUCTORY (MINING)*

Year, day and time: to be arranged.

An introduction to the principles of geology and mineralogy.

Examination: 1 paper and a practical examination.

ECONOMIC GEOLOGY (MINING)*

Year, day and time: to be arranged.

Mineralogy, economic mineral deposits, structural geology, map interpretation.

Examination: 1 paper and a practical examination.

GEOLOGY FOR CERAMICS

First year; 2 lecture hours and 2 laboratory hours a week.

Content as for Geology Introductory.

Examination: 1 paper and 1 practical examination.

PHYSIOLOGY

For the degree of Bachelor of Science in general and special studies

Acceptance requirement: Passes in or exemption from Introductory Chemistry, Physics and Zoology are necessary before entering on any course in physiology.

* Provisional.

PHYSIOLOGY

PHYSIOLOGY G1A

Second or 3rd years; Monday and Friday, 12 to 1; Thursday, 11 to 12, laboratory work, Monday and Thursday, 2 to 5.

A general survey of the main branches of animal and human physiology, including the properties of blood, muscle, circulatory, respiratory and digestive systems. Metabolism. Integration and regulation of activity by the endocrine and nervous systems.

Examination: 1 paper and 2 practical examinations.

PHYSIOLOGY G1 [complementary to Physiology G2]

Second year; 3 lectures and 6 hours' laboratory work a week at times to be arranged.

A more detailed study of the circulatory and respiratory systems than is given in Physiology G1A. Elements of neurophysiology. Digestion, metabolism and excretion.

PHYSIOLOGY G2 [complementary to Physiology G1]

Third year; 3 lectures and 6 hours' laboratory work a week at times to be arranged.

The inter-relations of the topics studied in Physiology G1 (see above) are considered together with further studies in neurophysiology, endocrinology and nutrition. One or two subjects are selected each year for special study and experimental work.

Examination: Two three-hour papers, 1 two-hour paper and 3 practical examinations covering Physiology G1 and G2.

For the degree of Bachelor of Science in special studies

PHYSIOLOGY S

Fourth year; at times to be arranged.

Advanced experimental methods and detailed study of some recent advances in the subject.

Examination: 4 papers and 3 practical examinations.

ANATOMY

For the degree of Bachelor of Science in special studies

ANATOMY 1

Second year; at times to be arranged.

Systematic human anatomy, embryology, histology, neurology.

Examination: Terminal.

ANATOMY 2

Third year; at times to be arranged.

Systematic human anatomy, advanced embryology, histology.

Examination: Terminal.

COURSES

ANATOMY 3

Fourth year; at times to be arranged.

Special courses including comparative primate morphology, physical anthropology, comparative neurology and other special fields.

Examination: 6 papers, a practical examination and an oral examination.

BACTERIOLOGY

For the degree of Bachelor of Science in general and special studies

Acceptance requirements: Passes in or exemption from Introductory Botany or Zoology, and Chemistry.

BACTERIOLOGY G₁

Second year; Monday and Wednesday, 2 to 5; Thursday, 9 to 10, Friday, 2 to 4. The biological characters of bacteria; their biochemical activities; immunology; a brief review of the organisms important in soil, food and water and in industry and medicine.

Examination: 2 papers and 2 practical examinations.

BACTERIOLOGY G₂

Third year; lectures and laboratory work at times to be arranged.

Immunology, bacterial metabolism, agricultural bacteriology, viruses, mycology and microscopy.

Examination: 2 papers, 2 practical examinations, and an oral examination.

For the degree of Bachelor of Science in special studies

BACTERIOLOGY S

Fourth year; at times to be arranged.

Selected advanced courses and research.

Examination: 3 papers, 3 practical examinations and an oral examination.

For the degree of Bachelor of Science in the chemistry of leather manufacture

BACTERIOLOGY L

Second or 3rd year; Friday, 2 to 5.

An elementary course in bacteriology, with special reference to its application to problems in leather industries.

BIOCHEMISTRY

For the degree of Bachelor of Science in general and special studies

Acceptance requirements: A pass in or exemption from Introductory Chemistry. A pass in or exemption from either Introductory Botany or Zoology is, in addition, desirable.

BIOCHEMISTRY G₁

Second year; 2 lecture hours and laboratory work at times to be arranged.

A general survey of the metabolism of fats, proteins and carbohydrates, and of nutrition.

Examination: 1 paper and an oral examination.

BIOCHEMISTRY

BIOCHEMISTRY G2A

Third year; 3 lecture hours and 5 hours' laboratory work each week and tutorials at times to be arranged.

A more detailed and extended study of the topics of Biochemistry G1 together with some physico-chemical aspects of biochemistry.

Examination: 2 papers and an oral examination.

BIOCHEMISTRY G2B

Third year; 2 lecture hours and 6 hours' laboratory work a week at times to be arranged.

Selected topics in microbiological chemistry.

Examination: 2 papers and an oral examination.

For the degree of Bachelor of Science in special studies

BIOCHEMISTRY S1

Third year; 4 lecture hours a week and laboratory work and tutorials at times to be arranged.

General biochemistry, physico-chemical aspects of biochemistry and an introduction to micro-biological chemistry.

BIOCHEMISTRY S2

Fourth year; 4 lecture hours a week. Laboratory work and tutorials at times to be arranged.

Selected topics in medical biochemistry; extension of the study of physico-chemical aspects and microbiological chemistry. Specialised practical work in one of these topics for one term and an individual practical investigation extending over one term.

Examination: 5 papers and an oral examination covering Biochemistry S1 and S2.

PHARMACOLOGY AND PHARMACY

For the degree of Bachelor of Science in special studies in pharmacy

PHARMACOLOGY 1

Second year; 3rd term, 2 lectures a week.

An elementary introduction to the subject with special emphasis on the quantitative aspects of general and special pharmacology.

Examination: 1 two-hour paper.

MEDICAL PHARMACOLOGY [complementary to Pharmacology 1]

Second year; 3rd term; 2 lectures a week.

Pharmacology with particular reference to man. [The introductory course for the degrees of Bachelor of Medicine and Bachelor of Surgery.]

HUMAN EXPERIMENTAL PHARMACOLOGY [complementary to Pharmacology 1]

Second year; 3rd term; 2 hours laboratory work a week.

A laboratory course illustrating some of the methods used to investigate drug actions in man with particular reference to the design and assessment of clinical trials.

COURSES

PHARMACOLOGY 2

Third year; 1 lecture and 7 hours laboratory work a week.

Lectures and laboratory work in general and special pharmacology.

Examination: 2 papers and 2 days of practical examinations.

MEDICAL PHARMACOLOGY [complementary to Pharmacology 2]

Third year; 2 lectures a week.

Pharmacology with particular reference to man. [The junior and senior courses for the degrees of Bachelor of Medicine and Bachelor of Surgery.]

PHARMACEUTICS 1

First year; 1 lecture and 4 hours laboratory work a week.

An introduction to general pharmacy with an elementary course in dispensing.

Examination: 1 paper.

PHARMACEUTICS 2

Second year; 2 lectures and 4 hours laboratory work a week.

Lectures and laboratory work in advanced general pharmacy and dispensing.

Examination: 1 paper and a practical examination in dispensing.

PHARMACEUTICS 3

Third year; 3 lectures and 7 hours laboratory work a week, excluding bacteriology.

Lectures and laboratory work in the preparation of sterile medicaments and in galenical pharmacy. A course in bacteriology.

Examination: 2 papers and 3 practical examinations.

PHARMACOGNOSY 1

First year; 1 lecture and 3 hours laboratory work a week.

Lectures and laboratory work providing an introduction to general pharmacognosy, including a study of the history, sources, preparation and recognition of crude animal and vegetable drugs.

Examination: 1 paper combining theoretical and practical work.

PHARMACOGNOSY 2

Second year; 1 lecture and 3 hours laboratory work a week.

Lectures and practical work on special pharmacognosy, involving the detailed study of individual crude drugs.

Examination: 1 paper and 2 practical examinations.

PHARMACEUTICAL CHEMISTRY 1

Second year; 1 lecture and 4 hours laboratory work a week.

Methods of drug analysis; inorganic chemistry including isotopes and their uses.

Examination: 1 paper.

PHARMACEUTICAL CHEMISTRY 2

Third year; 2 lectures and 8 hours laboratory work a week.

The chemistry of natural and synthetic products of medical importance with special reference to the relation between structure and pharmacological action.

Examination: 1 paper and 2 practical examinations.

PHARMACOLOGY AND PHARMACY

FORENSIC PHARMACY

Third year; 3rd term only.

Lectures on the law relating to drugs and to the practice of pharmacy.

For the degree of Bachelor of Science in special studies in pharmacology

PHARMACOLOGY 3

Fourth year; Monday to Friday, 9 to 5.

A full-time course of advanced theoretical and practical work including an introduction to research methods.

Examination: A written and an oral examination.

GERMAN

ELEMENTARY GERMAN FOR SCIENCE STUDENTS

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.

Book recommended: Neville and Yuill, *Translation from German for Chemists* (Blackie).

ITALIAN

For the degree of Bachelor of Science in general studies

ONE-YEAR COURSE

There will be 3 hours of lectures a week and a further hour of practical work.

The study of grammar, of composition, of prescribed texts, and of the civilisation of Italy.

The texts prescribed are the same as those for the one-year course for the degree of Bachelor of Arts in general studies. See prospectus, *The Faculty of Arts*, pages 123-4.

Examination: 2 papers and an oral examination.

TWO-YEAR COURSE

The content of this course and the books prescribed will be the same as for the two-year course for the degree of Bachelor of Arts in general studies (see prospectus, *The Faculty of Arts*, page 124), save that the special subjects for examination in 1961 will be:

1. Galilei, *Saggiatore* or literary writings
2. Scientific themes in 18th-century Italian literature
3. The plays of Luigi Pirandello.

One special subject shall be chosen. Books will be prescribed for each special subject.

Final examination: 4 papers and an oral examination.

COURSES

The special two-year course for the degree of Bachelor of Science in general studies taken during the 1st and 2nd years will be similar to the two-year course, *Italian for special studies in textile design* in the prospectus *The Faculty of Arts*.

RUSSIAN

For the degrees of Bachelor of Science in general and special studies

RUSSIAN FOR SCIENCE STUDENTS INTRODUCTORY

First year; Tuesday, 4 to 5; Wednesday, 10 to 11; Thursday, 11 to 12.

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 based on texts studied during the course, and more difficult passages with the aid of a dictionary.

Examination: 1. Translation from Russian based on texts studied during the course (2 hours).

2. Translation from Russian, use of dictionary permitted (2 hours).

For the degree of Bachelor of Science in general studies

GENERAL (S) COURSE

Four hours a week at times to be arranged, including 1 hour to be devoted to practical exercises in Russian pronunciation.

Examination: 3 papers: Russian composition, translation from Russian, prescribed texts; and an oral examination.

PHILOSOPHY

A candidate who qualifies in the examination at the end of the one-year course in philosophy for the degree of Bachelor of Arts in general studies may count it as an Introductory course for the degree of Bachelor of Science in general studies.

A candidate who qualifies in the final examination for the complete two-year course in philosophy for the degree of Bachelor of Arts in general studies may count it as equivalent to two General courses for the purposes of the regulations for the degree of Bachelor of Science in general studies.

A candidate who wishes to take a single General course in philosophy only will be required to follow the second part of the two-year course and present himself for two of the three papers in the final examination, one on the principal subject chosen from options 3 to 7, the other on the set book. The choice of subjects is to be approved by the head of the department of philosophy.

Details of these courses which may be selected so as to include the history and philosophy of science, will be found on page 368.

NUTRITION

NUTRITION AND DIETETICS

Students who wish to follow careers requiring a knowledge of nutrition and dietetics, for example, as dieticians, food supervisors, etc., are recommended to read for the degree of Bachelor of Science in general studies. The scheme of study should include chemistry and physiology as main subjects and bacteriology or some other science or applied science subject as a subsidiary subject.

It will usually be necessary to obtain a professional qualification, for example, a diploma in dietetics, after graduation. Students are recommended to obtain advice on this point from the tutor of women students or the sub-dean of the Faculties of Science and Technology.

GEOGRAPHY

[See page 370 and prospectus *The Faculty of Arts*.]

THE FACULTY OF TECHNOLOGY

ORDINANCE V

[continued from page 423]

DEGREES IN APPLIED SCIENCE

27. The degrees in applied science shall be:

Bachelor of Science (B.Sc.)
Master of Science (M.Sc.)
Doctor of Philosophy (Ph.D.)
Doctor of Science (D.Sc.)

THE DEGREE OF BACHELOR OF SCIENCE

[See also the regulations on page 420.]

28. The degree of Bachelor of Science shall be conferred either as an ordinary degree or as a special Honours degree.

29. 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, and thereafter to have pursued courses of study for not less than three academic years.

THE ORDINARY DEGREE OF BACHELOR OF SCIENCE

30. Every candidate shall be required to attend courses of study as set forth in the regulations for his particular school of applied science.

31. The courses of study in each school of applied science shall extend over at least three years.

THE DEGREE OF BACHELOR OF SCIENCE WITH HONOURS

32. Candidates shall be required to attend the prescribed courses of study as defined under the regulations for the various special Honours schools of applied science and to pass the prescribed examinations.

33. Names of candidates who have passed the examination for the degree of Bachelor of Science with Honours will be published in such form as to distinguish the Honours school in which severally they may have passed. The successful candidates may be awarded:

- (i) the degree of Bachelor of Science with first-class Honours,
- or (ii) the degree of Bachelor of Science with second-class Honours,
first division,
- or (iii) the degree of Bachelor of Science with second-class Honours,
second division,
- or (iv) the degree of Bachelor of Science with third-class Honours,
- or (v) the degree of Bachelor of Science.

34. Candidates who have not acquitted themselves so as to deserve Honours but who have reached the standard of the ordinary degree, may be recommended for that degree. They will not be allowed to present themselves a second time for the same Honours examination.

35. Every candidate for the degree of Bachelor of Science with Honours shall ordinarily be required to present himself for examination at the end of the third or fourth or fifth academic year from the time when he has entered upon one of the courses of instruction approved by the University for such degree, unless he shall present a medical certificate of illness satisfactory to the Senate. The examination shall ordinarily be held in June of each year.

36. Candidates who have passed the examination for the ordinary degree of Bachelor of Science may during the following session proceed with the course of study in a special Honours school and may present themselves for examination for the Honours degree in the fourth or fifth session of their University course.

37. Candidates who have passed the Honours examination in any of the special Honours schools may during the following session proceed with the course of study in another special Honours school, and may thereafter present themselves for examination in this second Honours school in the fourth or fifth session of their University course.

38. Candidates may choose one of the special Honours schools in applied science specified in the regulations for the special Honours degree in applied science, and must follow the course of study as prescribed in the regulations for each special Honours school in applied science.

39. Candidates who shall present evidence satisfactory to the Senate that they are qualified to enter upon a course of research may receive permission to pursue such a course, and to offer a thesis of their work in place of part or the whole of the Honours examination; but no candidate shall be excused the whole of the Honours examination unless he shall have satisfied the examiners in the subject of his Honours school of applied science up to the standard of the ordinary degree in that school.

THE DEGREE OF MASTER OF SCIENCE

[The degree of Master of Science in applied science subjects is governed by ordinance V, articles 17 to 20 and relevant regulations which will be found on pages 421 and 426. Particulars of a scheme of co-operation for postgraduate study in textile technology will be found on page 469.]

THE DEGREE OF DOCTOR OF PHILOSOPHY

[The degree of Doctor of Philosophy is governed by ordinance II, articles 50 to 52 and relevant regulations which will be found on pages 279 and 289. Particulars of a scheme of co-operation for postgraduate study in textile technology will be found on page 469.]

THE DEGREE OF DOCTOR OF SCIENCE

[The degree of Doctor of Science in applied science subjects is governed by ordinance V, articles 21 to 23 and the relevant regulation which will be found on pages 423 and 427.]

REGULATIONS FOR DEGREES

[continued from page 428]

THE DEGREE OF BACHELOR OF SCIENCE

23. The record of students at their departmental examinations may be taken into account in deciding the results of degree examinations.

24. Candidates may, with the consent of the dean of the Faculty in the case of ordinary degrees or of the head of the department in the case of special Honours degrees, present subjects more in number and higher in grade than those required by the Ordinance for those proceeding to a degree. Additional subjects need not be confined to those prescribed in the regulations for the degree of Bachelor of Science.

25. Candidates presenting a subject at a higher grade and failing to pass therein may, at the option of the examiners, be recommended for a pass in a lower grade.

26. Candidates who satisfy the examination requirements of the ordinary degree in two sessions must satisfactorily pursue a course in the third session approved by the Board of the Faculties of Science and Technology.

27. Students taking a science degree may be exempted by the Board of the Faculties of Science and Technology from the Introductory courses and corresponding examinations in the subjects already passed at the advanced level in the General Certificate of Education examination or in an equivalent examination, provided that they have passed at a sufficiently high standard and pursue an approved alternative course of study.

Applications for such exemptions should be made by the student to the head of the department in which he is presenting himself for Honours in the case of a special Honours candidate or to the dean of the Faculty of Technology in the case of any other candidate.

28. Each application for the recognition of research work must be made to the Senate not later than the last day of the October preceding the Honours examination, together with a statement of the intended subject of research, and a summary of the course of work actually pursued must be presented not later than the first day of the May preceding the Honours examination.

29. Candidates whose theses do not satisfy the examiners shall not receive the Honours degree, but may be recommended for the ordinary degree.

30. Candidates may choose an applied science school (ordinary or Honours) from the following list:

- Civil engineering
- Mechanical engineering
- Electrical engineering
- Mining
- Fuel science
- Gas engineering
- Chemical engineering

Ceramics
Metallurgy
Textile physics
Textile chemistry
Textile engineering
Textile industries
Colour chemistry
Dyeing
Chemistry of leather manufacture
Agriculture
Agricultural bacteriology [Honours school only]
Agricultural botany [Honours school only]
Agricultural chemistry [Honours school only]
Agricultural economics [Honours school only]
Agricultural zoology [Honours school only]

31. In the final examination a paper will be set containing passages of French and German translation into English relating to the principal subject or subjects of a candidate's degree course. All candidates may take this paper, and marks will be awarded for correct renderings of such passages. Candidates will be allowed the use of dictionaries at this language test examination.

32. Examiners will take account of the command of English language shown by candidates.

EXAMINATIONS

[Examinations for degrees in applied science are governed by the regulations which govern the examinations for degrees in pure science. The regulations will be found on page 424.

Attention is also drawn to the general regulations for all examinations on pages 229 and fol.]

REGULATIONS FOR DIPLOMAS

33. Candidates for diplomas are required to give satisfactory attendance upon all subjects which form part of their course of study, and to present themselves for any departmental examinations that may be held in the same. The record of students at their departmental examinations will be taken into account in deciding the results of diploma examinations.

34. At the close of the course, candidates will be required to present themselves for such examination in the main subject of study as may be prescribed.

35. Some deviation from these 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.

36. Diplomas are granted by the University in the following subjects:

Agriculture (in abeyance)	Leather manufacture
Colour chemistry	Mining engineering
Dyeing	Textile industries.

In addition the University grants postgraduate diplomas in the following subjects:

Agricultural bacteriology	Concrete technology
Agricultural botany	Fuel science
Agricultural chemistry	Gas engineering
Agricultural economics	Leather manufacture
Agricultural zoology	Metallurgy
Agriculture (farm management)	Mineral dressing and coal preparation
Applied geophysics	Plant pathology
Ceramics	Textile industries.
Chemical engineering	

[Further detailed regulations governing the award of these diplomas and prescribing approved schemes of study will be found on pages 494 and fol.]

SCHEME OF CO-OPERATION FOR POSTGRADUATE STUDY IN THE UNIVERSITY AND IN THE WOOL INDUSTRIES RESEARCH ASSOCIATION STATION IN LEEDS

Duly qualified graduates in science and technology may fulfil the requirements of the ordinances and regulations governing the degrees of Master of Science (see pages 421 and 426) and Doctor of Philosophy (see pages 279 and 289) of the University and may proceed to either degree after carrying out research under the Director of the Association at the Wool Industries Research Association station at 'Torridon,' Leeds, 6.

Graduates of the University without satisfactory training in textile industries and all graduates of universities other than Leeds who wish to avail themselves of these facilities must attend approved courses in the department of textile industries in the University for at least one year, normally *before* they begin work at 'Torridon.' In exceptional circumstances and with the approval of the Senate, this requirement may be fulfilled concurrently with attendance at 'Torridon.'

Students reading for higher degrees under the scheme will be, throughout, under the immediate and direct control of the Director of the Research Association whose appointment shall be specially approved for this purpose by the University. Periodical discussion of work in progress will take place between the Director and the head of the department of textile industries in the University. For the purpose of the scheme the Director has been appointed an honorary member of the staff of the department of textile industries.

All students working under the provisions of the scheme must be duly registered students of the University and will be subject to its discipline. They will be required to pay such fees for tuition as the University 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, appointments board.

PRESCRIBED SCHEMES OF STUDY FOR THE DEGREE OF BACHELOR OF SCIENCE

ENGINEERING

There are three prescribed schemes of study:

1. A *four-year scheme* leading to the degree with Honours. This scheme is followed by candidates who do not qualify for exemption from the Introductory courses in mathematics, and either physics or chemistry.
2. A *three-year scheme* leading to the degree with Honours. This scheme is followed by candidates whose qualifications upon entry permit exemption from Introductory courses in mathematics and either physics or chemistry.
3. A *three-year scheme* leading to the ordinary degree.

CIVIL ENGINEERING

Four-year scheme leading to the degree with Honours in civil engineering

First year	Engineering I Mathematics Introductory Metallurgy Introductory Applied economics B or Industrial management I and <i>one</i> of the following : Physics Introductory Chemistry Introductory An approved alternative subject
Second year	Engineering II Mathematics T1 [pure and applied] *Geology Introductory (engineers)
Third and fourth years	Engineering III †‡Engineering IV or Industrial relations III or Industrial management III and <i>one</i> of the following: Mathematics T2 [pure and applied] Statistics Introductory Metallurgy 3E †‡Industrial relations II or Industrial management II Economic geology (Mining) An approved alternative subject

* Field work in addition.

† Candidates wishing to proceed to Industrial management III *must* take Industrial management II.

‡ Candidates wishing to proceed to Industrial relations III *must* take Industrial relations II.

ENGINEERING

Three-year scheme leading to the degree with Honours in civil engineering

First year	Engineering I Mathematics T1 [pure and applied] Metallurgy Introductory Applied economics B or Industrial management I
Second year	Engineering II *Geology Introductory (engineers) and one of the following: Mathematics T2 [pure and applied] Statistics Introductory Metallurgy 3E † ‡Industrial relations II or Industrial management II Economic geology (mining) An approved alternative subject
Third year	Engineering III † ‡Engineering IV or Industrial relations III or Industrial management III

Three-year scheme leading to the ordinary degree in civil engineering

First year	Engineering I Mathematics Introductory Metallurgy Introductory Applied economics B or Industrial management I and one of the following: Physics Introductory Chemistry Introductory An approved alternative subject
Second year	Engineering II Mathematics T1 [pure and applied] *Geology Introductory (engineers)
Third year	Engineering III

MECHANICAL ENGINEERING

Four-year scheme leading to the degree with Honours in mechanical engineering

First year	Mathematics Introductory Metallurgy Introductory Applied economics B or Industrial management I and either Physics Introductory or An approved alternative subject together with such other work as may be deemed suitable by the head of the department.
Second year	Engineering I Mathematics T1 [pure and applied]

* Field work in addition.

† Candidates wishing to proceed to Industrial relations III *must* take Industrial relations II.

‡ Candidates wishing to proceed to Industrial management III *must* take Industrial management II.

SCHEMES OF STUDY

Third year	<i>either</i> Engineering IIA Statistics T Fuel and non-metallic materials <i>or</i> Engineering IIB Statistics T Fuel and non-metallic materials *Industrial management II or †Industrial relations II
Fourth year	<i>either</i> Engineering IIIA Engineering IV <i>or</i> Engineering IIIB Engineering IV *Industrial management III or †Industrial relations III

Three-year scheme leading to the degree with Honours in mechanical engineering

First year	Engineering I Mathematics T ₁ [pure and applied] Metallurgy Introductory Applied economics B or Industrial management I
Second year	<i>either</i> Engineering IIA Statistics T Fuel and non-metallic materials <i>or</i> Engineering IIB Statistics T Fuel and non-metallic materials *Industrial management II or †Industrial relations II
Third year	<i>either</i> Engineering IIIA Engineering IV <i>or</i> Engineering IIIB Engineering IV *Industrial management III or †Industrial relations III

Three-year scheme leading to the ordinary degree in mechanical engineering

First year	Engineering I Mathematics Introductory Metallurgy Introductory Applied economics B or Industrial management I and <i>one</i> of the following: Physics Introductory Chemistry Introductory An approved alternative subject
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* Candidates wishing to proceed to Industrial management III *must* take Industrial management II.

† Candidates wishing to proceed to Industrial relations III *must* take Industrial relations II.

ENGINEERING

Second year	<i>either</i> Engineering IIA Mathematics T ₁ [pure and applied] <i>or</i> Engineering IIB Mathematics T ₁ [pure and applied] *Industrial management II or †Industrial relations II
Third year	<i>either</i> Engineering IIIA Fuel and non-metallic materials <i>or</i> Engineering IIIB Fuel and non-metallic materials *Industrial management III or †Industrial relations III

ELECTRICAL ENGINEERING

Four-year scheme leading to the degree with Honours in electrical engineering

First year	Engineering ISE Engineering IS Mathematics Introductory Physics Introductory or an approved alternative subject
Second year	Engineering IE Mathematics T ₁ [pure and applied] Metallurgy Introductory Applied economics or Industrial management I
Third and fourth year	Identical, respectively, with the second and third years of the three-year scheme.

Three-year scheme leading to the degree with Honours in electrical engineering

First year	Engineering IE Engineering IS Mathematics T ₁ [pure and applied] Metallurgy Introductory Applied economics B or Industrial management I
Second year	Engineering II Fuel and non-metallic materials and one of the following: Mathematics T ₂ [pure and applied] Industrial relations II Industrial management II An approved alternative subject.
Third year	Engineering III Engineering IV

Four-year scheme leading to the ordinary degree in electrical engineering

First and second year	As in the four-year scheme leading to the degree with Honours
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* Candidates wishing to proceed to Industrial management III *must* take Industrial management II.

† Candidates wishing to proceed to Industrial relations III *must* take Industrial relations II.

SCHEMES OF STUDY

Third year Engineering II
 Fuel and non-metallic materials

Fourth year Engineering III

Three-year scheme leading to the ordinary degree in electrical engineering

First year As in the three-year scheme leading to the degree with Honours

Second year Engineering II
 Fuel and non-metallic materials

Third year Engineering III

Scheme of study leading to the degree in general studies

The departments provide supplementary courses in engineering for candidates reading for the degree of Bachelor of Science in general studies or in some other technological subject. The degree in general studies is governed by articles 1 to 14 of Ordinance V of the University and relevant regulations which will be found on pp. 419 and 424. Schemes of study for the degree in other technological subjects will also be found in the *Calendar* or in the appropriate departmental prospectus.

Candidates for the degree in general studies may include in their approved schemes of study an Introductory course and/or General courses in engineering.

MINING

Four-year scheme leading to the degree with Honours in mining

First year Mathematics Introductory
 Chemistry Introductory
 Physics Introductory
 Engineering IS
 Mining 1A and Surveying

Second year Mathematics T1 pure and T1 applied
 Engineering IIS
 Geology Introductory (mining)

Third year Mining and Surveying
 Fuel Introductory and Metallurgy 2
 Applied economics A
 Economic geology (mining)

Fourth year Mining and Mine surveying

Three-year scheme leading to the degree with Honours in mining

First year Mathematics T1 pure and T1 applied
 Engineering IS
 Fuel Introductory and Metallurgy 2
 Mining 1A
 Surveying
 Applied economics A

Second year	Geology Introductory (mining) Mining and Surveying Engineering IIS
Third year	Mining and Mine surveying Economic geology (mining)

In order to carry out the three-year scheme candidates must have reached a sufficiently high standard in mathematics, physics and chemistry at the advanced level in the examination for the General Certificate of Education or in an equivalent examination.

Alternative four-year scheme leading to the degree with Honours in mining

The scheme is complementary to the three-year scheme for the ordinary degree (see below) and is intended for candidates who are already reading for the ordinary degree and who, in the opinion of the head of the department of mining, show themselves to be suitable candidates for the degree with Honours. The scheme of study for the first three years is therefore identical with that prescribed for the ordinary degree (see below). The fourth year will be spent in approved research and in Mining 7. In addition to the examinations in the first three years candidates will present a thesis and take one paper on Mining 7 at the end of the fourth year.

Three-year scheme leading to the ordinary degree

First year	Mathematics Introductory Chemistry Introductory Physics Introductory Engineering IS Mining 1A and Surveying
Second year	Engineering IIS Geology Introductory (mining) Fuel Introductory and Metallurgy 2 Surveying Mining 1B
Third year	Mining and Mine surveying Economic geology (mining)

Scheme of study leading to the degree in general studies

The scheme may include an Introductory course and General courses in mining. The Introductory course covers surveying and the principles of mining and involves two lecture hours and three hours' drawing office or field work a week and a practical field course of three weeks at the end of the session.

The General courses cover surveying (Mining G1), applied geophysics (Mining G2) and mineral dressing (Mining G3).

Mining G1 involves two lecture hours and two hours of drawing office or field work a week and a practical field course of three weeks at the end of the session.

Mining G2 involves two lecture hours and three hours of drawing office or field work a week.

To take Mining G2, candidates must already have passed or have been exempted from the examinations on Mathematics Introductory, Physics Introductory, Geology Introductory and Physics G1.

FUEL SCIENCE, GAS ENGINEERING, CERAMICS, CHEMICAL ENGINEERING AND METALLURGY

For acceptance into any department of the school, candidates should normally have passed at advanced level in mathematics, physics and chemistry. To read for Honours will normally require four years' residence. In fuel science, gas engineering and chemical engineering, a student cannot complete his course in less than four years unless his qualifications at entry are such that he may be exempted from attendance at the first-year courses in mathematics, physics, chemistry and engineering. In metallurgy, a student may be able to complete his course in three years if, in the General Certificate of Education or equivalent examination, he has reached the standard required by the Senate for exemption from the Introductory courses in mathematics, physics and chemistry. The same may also apply *exceptionally* to ceramics students. But in all cases students are advised whenever possible to spend four years on their Honours course.

The schemes of study listed below include laboratory work where appropriate.

Three-year scheme leading to the ordinary degree in general fuel science

First year	Mathematics Introductory Physics Introductory Chemistry Introductory Engineering IS (3 hours lectures, 3 hours drawing) Fuel science 1 Applied economics A
Second year	Chemistry T1 *Engineering IIS Engineering drawing (Houldsworth school drawing office) Metallurgy Introductory Ceramics Introductory Process instrumentation 1
Third year	†Selected courses in pure or applied science Fuel science 2 Gas engineering 1 Chemical engineering 3A Chemical engineering 4

* This course comprises: Theory and design of structures II S C 1; Strength of materials II S M 1; Heat engines II S M 2; Theory of machines II S M 3; Fluid mechanics II S M 4; Electric power engineering II S E 1 and Electronic engineering II S E 2.

† Selected by the head of the department in accordance with the special requirements of individual candidates.

Process instrumentation 2
Mineral dressing
Furnace types

During the second and third years of the scheme candidates attend the special courses of lectures in industrial practice (Gas engineering 3 and Fuel science 6) which are given in the school each session by visiting lecturers.

Four-year scheme leading to the degree with Honours in fuel science

First year	Mathematics Introductory Physics Introductory Chemistry Introductory Engineering IS (3 hours lectures, 3 hours drawing) Fuel science 1 Ceramics Introductory
Second year	Chemistry T1 Mathematics T1 pure Physics G1 B Engineering IISM2 and IISM4 Metallurgy Introductory Fuel science 2 Chemical engineering 4
Third year	Chemistry T (thermodynamics) Chemistry Go Geology Introductory Statistics Introductory Gas engineering 1 Chemical engineering 1A Process instrumentation 1
Fourth year	Fuel science 3, 4, 5 and 7 Process instrumentation 2 Chemical engineering 3A Chemical engineering 1B (part only) Research exercise.

Students may also take additional selected pure or applied science subjects.

Four-year scheme leading to the degree with Honours in gas engineering

The scheme of study for the first year is identical with that prescribed for the ordinary degree in general fuel science (see page 476).

Subsequently the scheme will include:

Second year	Chemistry T1 Chemistry Go Engineering drawing (Houldsworth school drawing office) Mathematics T1 pure Gas engineering 1 Metallurgy Introductory
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SCHEMES OF STUDY

Third year	Chemistry T (thermodynamics) Engineering IIS Chemical engineering 3A Process instrumentation 1 Fuel science 2
Fourth year	Fuel science 3, 4 and 5 Gas engineering 2 *Fuel science 6 and Gas engineering 3 Mineral dressing 1 Process instrumentation 2 Ceramics 2 Research principles Furnace types Colloquium

Students may also take one of the following: Mathematics T1 applied, Physics G1, Chemical engineering 3B, or other approved courses.

Four-year scheme leading to the degree with Honours in chemical engineering

The scheme of study for the first year is identical with that prescribed for the degree in general fuel science (see page 476) with the addition of Chemical engineering 4.

Subsequently the scheme will include:

Second year	Chemistry T1 Chemistry G0 Mathematics T1 pure and T1 applied Gas engineering 1 Ceramics 1B Engineering drawing (Houldsworth school drawing office)
Third year	Chemistry T (thermodynamics) Physics G1 B Engineering IIS Chemical engineering 1A and 3A Metallurgy Introductory Process instrumentation 1
Fourth year	Chemical engineering 1B, 2, 3, 3B and 5 Mining G3 (Mineral dressing) Research principles Process instrumentation 2

Suitably qualified students may also take more advanced mathematics, Mathematics T2 pure and Mathematics T2 applied.

* Special courses given by outside lecturers, some of which may be taken in the third year.

Four-year scheme leading to the degree with Honours in ceramics

The scheme of study for the first year is identical with that prescribed for the degree in general fuel science (see page 476).

Subsequently the scheme will include:

Second year	Chemistry T1 Chemistry G1 Mathematics T1 pure and T1 applied Geology Introductory (engineers) Chemical engineering 3A Ceramics 1
Third year	Chemistry T (thermodynamics) Mining G3 (Mineral dressing) Process instrumentation 1 Metallurgy Introductory Engineering IISM1 and IISE2 Ceramics 4, 5 and 7
Fourth year	Ceramics 10, 11, 12, 13, 14, 15, 16 Research principles Colloquium Process instrumentation 2

Suitably qualified students may also take courses in chemical microscopy, phase equilibria, X-ray crystallography or certain other approved subjects.

Four-year schemes leading to the degree with Honours in metallurgy

There are two schemes leading to the degree with Honours in metallurgy.

Scheme A is designed to meet the needs of students preparing for work in industrial production and scheme B of those preparing for research. Scheme B allows different combinations of pure science courses.

The student may be able to complete his scheme in three years if, in the General Certificate of Education or an equivalent examination, he has reached the standard required by the Senate for exemption from the Introductory courses in mathematics, physics and chemistry. Exceptionally, it may be possible for a student with exemptions in two of these subjects to complete the scheme in three years.

Schemes A and B

First year	Mathematics Introductory Physics Introductory Chemistry Introductory Engineering IS Fuel science 1 Crystal structure Metallurgy Introductory
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SCHEMES OF STUDY

Scheme A

Second year Mathematics T1H pure
 Chemistry T1
 Engineering IISM1 and IISE1
 Applied economics A
 Mineral formation and mineral dressing
 Non-ferrous metals extraction

Scheme B, option 1

Mathematics T1H pure
 Physics G1A
 Chemistry T1
 Elements of quantum mechanics

Scheme B, option 2

Mathematics T1H pure and T1H applied
 Physics G1A
 Elements of quantum mechanics

Scheme B, option 3

Mathematics T1H pure and T1H applied
 Chemistry T1
 Elements of quantum mechanics

Third year Ceramics 3
 Chemical engineering 3A
 Commercial alloys
 Ironmaking
 Economics (iron and steel)
 Thermodynamics of solutions
 together with the following:

Scheme A

Physics G1B
 Process instrumentation 1

Scheme B, option 1

Mathematics T1H applied
 Physics G2

Scheme B, option 2

Mathematics T2
 Physics G2

Scheme B, option 3

Mathematics T2
 Physics G1B

Fourth year Metal physics 1
 Metals technology
 Research techniques
 Point imperfections in solids
 Steelmaking
 Structure of alloys
 together with the following:

Scheme A

Process instrumentation 2
 Foundry technology
 Industrial practice

Scheme B

Elasticity
 Metal physics 2
 Electrons in solids

Candidates must also attend in the third and fourth years the special lectures in metallurgy given from time to time by visiting lecturers.

Scheme of study leading to the degree in general studies

The scheme may include Introductory courses and General courses in fuel science, metallurgy and ceramics.

The Introductory courses, of which there are three, may consist of Fuel Introductory and Metallurgy Introductory, or of Fuel Introductory and Ceramics Introductory, or of Metallurgy Introductory and Ceramics Introductory. Any combination will involve two lecture hours and four laboratory hours a week.

The General courses each extend over two years and may consist of Fuel Introductory followed by Fuel science 2 and Gas engineering 1 or of Metallurgy Introductory followed by Metallurgy H or of Ceramics Introductory followed by Ceramics (refractory materials) 2 and 3. The course in fuel science involves three lecture hours and four laboratory hours a week; that in metallurgy, three lecture hours and three laboratory hours; and that in ceramics two lecture hours and four laboratory hours.

TEXTILE INDUSTRIES

The following schemes of study for the degree of Bachelor of Science with Honours all extend over four years but candidates who have reached a sufficiently high standard at the advanced level in an examination for the General Certificate of Education may be exempted from the Introductory courses in mathematics, physics and chemistry.

Four-year scheme leading to the degree with Honours in textile physics

First year Mathematics Introductory
 Physics Introductory

SCHEMES OF STUDY

	Chemistry Introductory
	Engineering IS
	Textile chemistry 1
	Raw materials 1
Second year	Mathematics T1 pure
	Mathematics T1 applied
	Physics G1
	Textile physics 1
	Textile chemistry 2
	Woollen yarn production 1
	<i>or</i> Staple fibre yarn manufacture 1
	Worsted yarn production 1
	<i>or</i> Staple fibre yarn manufacture 1
	Cloth analysis 1
	Cloth structure 1
	Colour study 1
	Loom study 1
	Textile calculations 1
Third year	Physics G2
	Textile physics 2
	Textile chemistry 3
	Woollen yarn production 2
	<i>or</i> Staple fibre yarn manufacture 2
	Worsted yarn production 2
	<i>or</i> Staple fibre yarn manufacture 2
	Loom study 2
	Knitting 1
	Cloth structure 2
	Cloth analysis 2
	Cloth finishing 1
	Cloth finishing 2
	Physical testing (methods)
	Physical testing (statistics)
Fourth year	Woollen yarn production 3
	<i>or</i> Staple fibre yarn manufacture 3
	Worsted yarn production 3
	<i>or</i> Staple fibre yarn manufacture 3
	Complex textiles
	<i>or</i> Knitting 2
	Dyeing 1T
	Textile engineering 1
	Textile engineering 2
	Textile engineering 4
	Mill management.

TEXTILE INDUSTRIES

Four-year scheme leading to the degree with Honours in textile chemistry

First year	Mathematics Introductory Physics Introductory Chemistry Introductory Engineering IS Textile chemistry 1 Raw materials 1
Second year	Inorganic chemistry Gi Organic chemistry Go Textile chemistry 2 Woollen yarn production 1 <i>or</i> Staple fibre yarn manufacture 1 Worsted yarn production 1 <i>or</i> Staple fibre yarn manufacture 1 Loom study 1 Cloth structure 1 Cloth analysis 1 Colour study 1
Third year	Physical chemistry Gp Textile physics 1 Textile chemistry 3 Woollen yarn production 2 <i>or</i> Staple fibre yarn manufacture 2 Worsted yarn production 2 <i>or</i> Staple fibre yarn manufacture 2 Loom study 2 Knitting 1 Cloth structure 2 Textile calculations 1 Physical testing (methods) Physical testing (statistics)
Fourth year	Textile physics 2 Woollen yarn production 3 <i>or</i> Staple fibre yarn manufacture 3 Worsted yarn production 3 <i>or</i> Staple fibre yarn manufacture 3 Complex textiles <i>or</i> Knitting 2 Cloth analysis 2 Cloth finishing 1 Cloth finishing 2 Dyeing 1T Textile engineering 1 Textile engineering 2 Textile engineering 4 Mill management.

SCHEMES OF STUDY

Four-year scheme leading to the degree with Honours in textile engineering

First year	Mathematics Introductory Physics Introductory Chemistry Introductory Engineering IS Textile physics 1 Textile chemistry 1 Raw materials 1
Second year	Mathematics T1 pure and T1 applied Engineering IIS Woollen yarn production 1 or Staple fibre yarn manufacture 1 Worsted yarn production 1 or Staple fibre yarn manufacture 1 Loom study 1
Third year	Textile physics 2 Textile chemistry 2 Cloth structure 1 Textile calculations 1 Cloth analysis 1 Colour study 1 Knitting 1 Cloth finishing 1 Cloth finishing 2 Physical testing (methods) Physical testing (statistics) Textile engineering 4
Fourth year	Textile chemistry 3 Woollen yarn production 2 or Staple fibre yarn manufacture 2 Worsted yarn production 2 or Staple fibre yarn manufacture 2 Woollen yarn production 3 or Staple fibre yarn manufacture 3 Worsted yarn production 3 or Staple fibre yarn manufacture 3 Loom study 2 Cloth structure 2 Cloth analysis 2 Complex textiles or Knitting 2 Dyeing 1T Textile engineering 1 Textile engineering 2 Textile engineering 3 Textile engineering 4 Textile engineering 5

TEXTILE INDUSTRIES

Three-year scheme leading to the ordinary degree in textile industries

First year	<p>Three of the following:</p> <p>Mathematics Introductory</p> <p>Physics Introductory</p> <p>Chemistry Introductory</p> <p>Engineering 1S</p> <p>Textile chemistry 1</p> <p>Raw materials 1</p> <p>Woollen yarn production 1</p> <p>or Staple fibre yarn manufacture 1</p> <p>Worsted yarn production 1</p> <p>or Staple fibre yarn manufacture 1</p>
Second year	<p>Two of the following courses:</p> <p>Mathematics T1 pure and T1 applied</p> <p>Physics G1</p> <p>Organic chemistry Go</p> <p>*Physical chemistry Gp</p> <p>Statistics and textile testing</p> <p>and</p> <p>Textile physics 1</p> <p>Textile chemistry 2</p> <p>Loom study 1</p> <p>Knitting 1</p> <p>Cloth structure 1</p> <p>Textile calculations 1</p> <p>Cloth analysis 1</p> <p>Colour study 1</p> <p>Physical testing (methods)</p> <p>Physical testing (statistics)</p>
Third year	<p>Textile chemistry 3</p> <p>Textile physics 2</p> <p>Woollen yarn production 2</p> <p>or Staple fibre yarn manufacture 2</p> <p>Woollen yarn production 3</p> <p>or Staple fibre yarn manufacture 3</p> <p>Worsted yarn production 2</p> <p>or Staple fibre yarn manufacture 2</p> <p>Worsted yarn production 3</p> <p>or Staple fibre yarn manufacture 3</p> <p>Loom study 2</p> <p>Cloth structure 2</p> <p>Complex textiles</p> <p>Cloth analysis 2</p> <p>Cloth finishing 1 and 2</p>

* In exceptional circumstances and with the approval of the head of the department of textile industries, Chemistry Gi may be substituted for Chemistry Gp.

SCHEMES OF STUDY

Dyeing 1T
Textile engineering 1
Textile engineering 2
Textile engineering 4
Mill management.

Scheme for the degree with Honours in textile industries

Persons who have completed the three-year scheme of study set out above and upon whom the degree of Bachelor of Science has been conferred may qualify for the award of Honours in textile industries by presenting a thesis embodying the results of original research during a further year of study. They will be required during this year to attend ancillary lectures and, at its conclusion, to pass an appropriate examination.

Scheme for the degree of Bachelor of Arts in special studies in textile design

Particulars of this scheme will be found on pages 332 and fol.

Scheme for the degree of Bachelor of Commerce with textile industries as a principal subject

Particulars of this scheme will be found on pages 390 and 393 and fol.

Scheme for the degree of Bachelor of Arts in textile management

Particulars of this scheme will be found on page 334.

COLOUR CHEMISTRY AND DYEING

Four-year scheme leading to the degree with Honours in colour chemistry

First year	Mathematics Introductory Physics Introductory 1B Chemistry Introductory
Second year	Chemistry Gi Chemistry Go Chemistry Gp Dyeing 1 Experimental dyeing laboratory General textile technology
Third year	Dyeing 2 Dyeing 3 Colour chemistry 4 (first and second terms) Engineering 1S (lectures only) Cloth finishing 1 and 2 Practical cloth finishing (second term) Experimental dyeing laboratory Textile printing Practical dyehouse Colour chemistry laboratory

COLOUR CHEMISTRY AND DYEING

Fourth year	Colour chemistry 5 (first and second terms)
	Colour chemistry 6 (first and second terms)
	Colour chemistry 7 (first and second terms)
	Colour chemistry 8 (first and second terms)
	Colour chemistry laboratories

Candidates for the degree with Honours in colour chemistry will be required to translate into English passages of French and German technical literature.

Three-year scheme leading to the ordinary degree in dyeing

First year	Mathematics Introductory
	Physics Introductory 1B
	Chemistry Introductory
Second year	Chemistry Gi
	Chemistry Go
	Chemistry Gp
	Dyeing 1
	Experimental dyeing laboratory
	General textile technology
Third year	Dyeing 2
	Dyeing 3
	Colour chemistry 4 (first and second terms)
	Engineering IS (lectures only)
	Cloth finishing 1 and 2
	Practical cloth finishing (second term)
	Experimental dyeing laboratory
	Textile printing
	Practical dyehouse.

Candidates for the ordinary degree in dyeing will be required to translate into English a passage of French or German technical literature.

LEATHER INDUSTRIES

Four-year scheme leading to the degree with Honours in the chemistry of leather manufacture

The scheme of study will include:

First year	Chemistry Introductory
	Physics Introductory
	Technology of leather manufacture L1
	An introductory course in an additional subject to be selected in consultation with the head of the department of leather industries.
Second year	Chemistry Go
	Chemistry Gi
	Chemistry Gp
	Technology of leather manufacture L2

SCHEMES OF STUDY

Third year	Bacteriology L Microscopy in leather manufacture L5 (second and third terms only) Analytical chemistry of leather manufacture L3—parts 1 and 2 Physics and chemistry of leather manufacture L4—parts 1 and 2 Leather industries laboratory work
Fourth year	Principles and methods of leather manufacture L6 Advanced physics and chemistry of leather manufacture L7—parts 1 to 6 Practical leather physics Leather industries laboratory work (including research problem) Practical leather manufacture L8

Suitably qualified candidates who are exempted from the Introductory course in chemistry may take Chemistry Go in their first year and commence Leather industries laboratory work on completion of their laboratory courses in chemistry.

Suitably qualified candidates who are exempted from the Introductory course in physics may take Bacteriology L and Microscopy in leather manufacture L5 in their first year.

Three-year scheme leading to the degree with Honours in the chemistry of leather manufacture

This scheme is intended for candidates who are exempted from both the Introductory course in chemistry and the Introductory course in physics, and who are suitably qualified to undertake the three-year scheme.

First year	Chemistry Gp Technology of leather manufacture L1 Bacteriology L Microscopy in leather manufacture L5 (second and third terms only) An introductory course in an additional subject to be selected in consultation with the head of the department of leather industries.
Second year	Chemistry Go Chemistry Gi Technology of leather manufacture L2 Physics and chemistry of leather manufacture L4—parts 1 and 2
Third year	Analytical chemistry of leather manufacture L3—parts 1 and 2 Principles and methods of leather manufacture L6 Advanced physics and chemistry of leather manufacture L7—parts 1 to 6 Practical leather physics Leather industries laboratory work (including research problem) Practical leather manufacture L8

The leather industries laboratory work may be started on completion of the laboratory courses in chemistry.

LEATHER INDUSTRIES

Three-year scheme leading to the ordinary degree in the chemistry of leather manufacture

The scheme of study for the first two years will be the same as the first two years for the four-year scheme leading to the degree with Honours in the chemistry of leather manufacture.

Third year	Bacteriology L Microscopy in leather manufacture L5 (second and third terms only) Analytical chemistry of leather manufacture L3—part 1 (for part of the session only) Physics and chemistry of leather manufacture L4—part 1 (for part of the session only) Principles and methods of leather manufacture L6 Practical leather physics Leather industries laboratory work Practical leather manufacture L8.
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Persons upon whom the ordinary degree of Bachelor of Science has been conferred upon completion of the three-year scheme may qualify for the award of Honours in the chemistry of leather manufacture by satisfactorily completing a further one-year course which may be arranged.

AGRICULTURE

Three-year scheme leading to the ordinary degree of Bachelor of Science in agriculture

First year	Botany Introductory Zoology Introductory Chemistry Introductory General economics
Second year	Agriculture 1, 2 and 3 Agricultural economics 1 Agricultural botany 1 Agricultural chemistry 2 Animal physiology and veterinary science either Agricultural bacteriology or Agricultural zoology
Third year	Agriculture 1, 2 and 3 Agricultural chemistry 1 Agricultural botany 2 Agricultural economics 2

SCHEMES OF STUDY

EXAMINATIONS

First year	Botany Introductory—1 paper and 1 practical examination Chemistry Introductory—1 paper and 1 practical examination Zoology Introductory—1 paper and 1 practical examination General economics—1 paper
Second year	Agricultural botany 1—1 paper and 1 practical examination Agricultural chemistry 2—1 paper and 1 practical examination Animal physiology and veterinary science—1 paper and 1 practical examination either Agricultural bacteriology } 1 paper and 1 practical or Agricultural zoology } examination
Third year	Agriculture 1, 2 and 3—3 papers Agricultural economics 1 and 2—2 papers Agricultural botany 2—1 paper and 1 practical examination Agricultural chemistry 1—1 paper and 1 practical examination

Scheme of study leading to the degree of Bachelor of Science in general studies

The scheme may include any or all of the following General courses:

Agricultural bacteriology G
Agricultural botany G1
Agricultural botany G2
Agricultural chemistry G1
Agricultural chemistry G2
Agricultural zoology G

Four-year scheme leading to the degree of Bachelor of Science with Honours in agriculture

The scheme of study for the first, second and third years will be the same as that for the three-year scheme leading to the ordinary degree of Bachelor of Science in agriculture.

In the fourth year the scheme will include:

Agriculture 4
Agriculture 5.

Candidates will be required to submit a dissertation on a subject to be approved.

EXAMINATIONS

The examinations for the first three years will be as for the scheme for the ordinary degree of Bachelor of Science in agriculture.

In the fourth year:

Agriculture 4—1 paper
Agriculture 5—2 papers
Dissertation.

AGRICULTURE

Four-year scheme leading to the degree of Bachelor of Science with Honours in agricultural bacteriology

First year	Botany Introductory Chemistry Introductory Zoology Introductory Principles of agriculture
Second year	Bacteriology G1 Chemistry Gp *Agricultural chemistry G1
Third year	Bacteriology G2 Chemistry Go Agricultural bacteriology G *Agricultural chemistry G2
Fourth year	Agricultural bacteriology (advanced) Bacterial chemistry Statistics DA1

} By arrangement

Four-year scheme leading to the degree of Bachelor of Science with Honours in agricultural botany

First year	Botany Introductory Chemistry Introductory Principles of agriculture One other approved course.
Second year	Botany G1 or G2 Chemistry Go †Agricultural botany G1
Third year	Botany G1 or G2 †Agricultural botany G2 Agricultural chemistry G1 (lectures only)
Fourth year	Agricultural botany (advanced) Statistics DA1.

Four-year scheme leading to the degree of Bachelor of Science with Honours in agricultural chemistry

First year	Chemistry Introductory Physics Introductory Principles of agriculture either Geology Introductory or Zoology Introductory
Second year	Chemistry Go Agricultural chemistry G1 (lectures only) either Physiology G1A (after Zoology Introductory) or Geology G1B (after Geology Introductory)

* Candidates may be exempted from the practical part of the course.

† Agricultural botany G1 and G2 are given in alternate years.

SCHEMES OF STUDY

Third year	Chemistry Gi Chemistry Gp Agricultural chemistry G2 (lectures only) Agricultural bacteriology
Fourth year	Agricultural chemistry (advanced) Statistics DA1.

Four-year scheme leading to the degree of Bachelor of Science with Honours in agricultural economics

First year	Economics Principles of agriculture English economic history
Second year	Economics seminar Economic statistics 1 and 2 Public and international finance Management economics 2 Money and banking Agricultural economics 1
Third year	Economics seminar Recent economic history Economics of industry and labour Agricultural economics 2 Farm organisation and management.
Fourth year	Agricultural economics (advanced) Statistics DA1 Dissertation.

EXAMINATIONS

First year	Economics Principles of agriculture English economic history
Second year	Management economics 2 Economic statistics
Third year	Economic theory Money and finance Economics of industry and labour Recent economic history Farm organisation and management
Fourth year	Agricultural economics (advanced)—3 papers Dissertation

Four-year scheme for the degree of Bachelor of Science with Honours in agricultural zoology

First year	Zoology Introductory Botany Introductory Chemistry Introductory Principles of agriculture
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AGRICULTURE

Second and third years	*Zoology G1 and G2 Agricultural chemistry G1 †Agricultural botany G1 Agricultural zoology G <i>either</i> †Agricultural botany G2 <i>or</i> Agricultural chemistry G2
Fourth year	Agricultural zoology H (advanced) Statistics DA1 Dissertation

* Zoology G1 and G2 are given in alternate years.

† Agricultural botany G1 and G2 are given in alternate years.

REGULATIONS AND SCHEMES OF STUDY FOR DIPLOMAS IN APPLIED SCIENCE

ENGINEERING

The postgraduate diploma in concrete technology

The scheme of study extends over one session and will include the following:

Lectures, occupying nine hours a week, on:

- Developments and research in the properties of concrete
- Reinforced concrete design
- Prestressed concrete design
- Structural analysis
- Design of shells and slabs
- Engineering foundations
- Soil mechanics

Laboratory work occupying three hours a week

Design or research project occupying nine hours a week.

The diploma will be awarded on the result of an examination after satisfactory completion of the course. The subjects of examination will be:

- Properties of concrete (1 paper)
- Theory of reinforced and prestressed concrete (1 paper)
- Structural analysis (1 paper)
- Analysis and design of shells, slabs and foundations (1 paper)
- Reinforced and prestressed concrete design (1 paper)

Design scheme or research report: presentation of a written report embodying the calculations and drawings of an approved design scheme or the presentation of the results of a short research project carried out during the course.

The diploma may be awarded with distinction when the work of a student is of outstanding merit.

MINING

The postgraduate diploma in mineral dressing and coal preparation

1. Candidates will normally be awarded the diploma in mineral dressing and coal preparation after satisfactory attendance at the course and after passing the appropriate examinations at the end of the period of study; in the case of graduates this will normally be one year.*

2. The syllabus will consist of the following courses:

- Mineral dressing and coal preparation (lectures)
- Mineral dressing and coal preparation (laboratory)
- Plant design and layout
- Statistics Introductory
- Chemical engineering 1A

A selection of the following:

- Fuel Introductory
- Fuel science 3—Coal science

* Holders of an approved degree and of the diploma may spend a further year in research in mineral dressing or coal preparation and will be eligible to apply for acceptance as candidates for the award of the degree of Master of Science.

Metallurgy Introductory
Non-ferrous metals extraction
Surveying.

The postgraduate diploma in applied geophysics

1. A one-year postgraduate scheme of study is available for those wishing to qualify for a diploma in applied geophysics.
2. Candidates must be Honours graduates in mining, geology or physics of any British university.
3. Candidates for the diploma may be required to spend a preliminary period of up to six weeks on some form of geophysical field work.
4. The scheme will consist of instruction in the principles and application of geophysics to the problems of mining, geology and oil exploration.
5. In addition to geophysics, the course of instruction will include the lectures and practical work of such following subjects as have not previously formed part of the degree scheme taken by the candidate: geology, physics and mathematics. Candidates must already have taken these subjects at the Introductory level.
6. Candidates will normally be awarded the diploma in geophysics after satisfactory attendance and after passing the appropriate examinations at the end of the period of study. Holders of the diploma may spend a further year in research in geophysics and will be eligible to apply for acceptance as candidates for the award of the degree of Master of Science.
7. The syllabus will consist of the following courses:
 - Applied geophysics (lectures, laboratory and field work)
 - Structural geology
 - Economic geology (mining)
 - Physics G1 (lectures)
 - Physics G1 (laboratory)
 - Mathematics T1 (pure)
 - Statistics Introductory.

The diploma in mining engineering

1. Candidates for the diploma in mining engineering are required:
 - (a) To attend the same courses as candidates for the ordinary degree of Bachelor of Science in mining.
 - (b) To present themselves for any departmental examinations that may be held in the subjects forming any part of their scheme of study. The record of students at their departmental examinations will be taken into account in deciding the results of the diploma examination.
 - (c) To obtain four months' experience at a mine during the vacations, unless the candidate shows to the satisfaction of the head of the department that he has had adequate previous experience at mines before entering on the scheme.
 - (d) To reach a satisfactory standard in any final examination which may be set. In the subject of mining a diploma student takes for his final examination the same final principal mining papers as are set for the ordinary degree of Bachelor of Science.

- (e) To translate into English a passage of French or German relating to the principal subject of the diploma scheme. A foreign student who can show that he has received a good general education will be exempted from this language test.
 - (f) A diploma may be granted upon the degree scheme provided that the subjects studied for the degree include those prescribed for the diploma, and that the other conditions are complied with.
2. A student producing evidence of adequate previous scientific or practical training may, upon application to the Senate, be exempted from a portion of the normal scheme and may qualify for the diploma upon a shortened period of study.
 3. A diploma with distinction may be awarded to a student when work is adjudged to be of outstanding merit.

FUEL SCIENCE, GAS ENGINEERING, CERAMICS, CHEMICAL ENGINEERING AND METALLURGY

The postgraduate diplomas in fuel science, gas engineering, chemical engineering, ceramics and metallurgy

Schemes of study extending over one, two or three years lead to the postgraduate diplomas in fuel science, gas engineering, chemical engineering, ceramics and metallurgy. 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. The two- and three-year schemes involve full-time research work; the one-year scheme consists solely of advanced study.

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.
- C. Further advanced study and research in the chosen field.

Well qualified graduates will normally take B only and may qualify for a diploma after one year of attendance. Graduates who take B and C consecutively and attend for two years, may after passing the prescribed examinations and presenting a thesis on their research qualify for the degree of Master of Science.

Non-graduates will normally take A and B consecutively and may then qualify for a diploma after two years of attendance. Alternatively, they may take A, B and C consecutively and may then, after passing the prescribed examinations and presenting a thesis on their research, qualify for the degree of Master of Science.

The postgraduate course in metallurgy has been accepted by the department of Scientific and Industrial Research as suitable for the tenure of its Advanced course studentships.

TEXTILE INDUSTRIES

The postgraduate diploma in textile industries

The scheme of study is intended for graduates in science and technology who propose 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.

- | | |
|-------------|---|
| First year | Lectures and practical work selected from the scheme leading to the degree of Bachelor of Science with Honours in textile industries in accordance with the previous training of the graduate and the section of the industry for which he is intended. Graduates in textile technology may apply for exemption from this part of the course. |
| Second year | Research, on which a thesis must be presented, and four courses of lectures and laboratory work selected from the following: <ul style="list-style-type: none"> (a) Molecular structure and physical properties of high polymers, with particular reference to the structure and properties of textile fibres (b) Chemistry of natural and synthetic fibres (c) Applied chemistry: the chemistry of industrial processes, including those used in the manufacture of synthetic fibres (d) Textile engineering: mathematical analysis of the manipulation of fibres in processes up to and including yarn manufacture; the mathematics of fabric construction; critical studies of textile machinery; survey of recent developments in the design of textile machinery; instruments and control in textile machinery (e) Statistical methods in the study and control of textile processes. |

The diploma in textile industries

The scheme of study will include:

- | | |
|------------|--|
| First year | Textile chemistry I
Raw materials I
Woollen yarn production I
or Staple fibre yarn manufacture I
Worsted yarn production I
or Staple fibre yarn manufacture I
Loom study I
Cloth structure I
Textile calculations IA
Cloth analysis I
Colour study I
Textile chemistry IA
Textile mathematics IA
Textile physics IA |
|------------|--|

SCHEMES OF STUDY

Second year	Textile chemistry 2
	Woollen yarn production 2
	or Staple fibre yarn manufacture 2
	Worsted yarn production 2
	or Staple fibre yarn manufacture 2
	Loom study 2
	Cloth analysis 2
	Knitting 1A
	Cloth structure 2
	Textile calculations 1B
	Colour study 2
	Cloth finishing 1
	Textile testing
	Textile testing (statistics)
Third year	Textile physics 2A
	Textile chemistry 3
	Woollen yarn production 3
	or Staple fibre yarn manufacture 3
	Worsted yarn production 3
	or Staple fibre yarn manufacture 3
	Complex textiles
	Dyeing 1T
	Cloth finishing 2
	Mill management
	Textile engineering 2A

Candidates must combine the above courses of study with at least one of the following groups of courses:

1. Mathematics Introductory
Physics Introductory
Chemistry Introductory
2. Economics Introductory
Textile economics
3. Two courses selected from the following:
French general studies first year
German general studies one-year course
Russian general studies one-year course
Spanish general studies one-year course
4. Principles of pattern design

and must reach a satisfactory standard in the appropriate examinations. Candidates who choose group 2 are strongly recommended to take group 4 as well, and suitable provision has been made in the time tables.

During the third year, candidates must present twenty-four selected worksheets and a thesis based on some approved textile research. Three copies of the thesis, bound in the form prescribed by the University, should be submitted by 1 June. Two copies will be retained for the University library.

The diploma with distinction may be awarded to candidates whose work is adjudged to be of outstanding merit.

COLOUR CHEMISTRY AND DYEING

The diplomas in colour chemistry and dyeing

The schemes of study leading to the diplomas in colour chemistry and dyeing are, respectively, identical in length and substance with those leading to the degree of Bachelor of Science with Honours in colour chemistry and to the ordinary degree of Bachelor of Science in dyeing. They are arranged for candidates who are unable to satisfy the requirements for entry upon a course leading to a degree.

Both diplomas are governed by the following detailed regulations:

1. Candidates are required:
 - (a) (i) To give satisfactory attendance upon the subjects which form any part of the course of study
 - (ii) To present themselves for any departmental examinations that may be held in the subjects forming part of their course of study
 - (iii) To make formal entry for the appointed diploma examinations on the prescribed form
 - (b) (i) To reach a satisfactory standard in any final examination which may be set
 - (ii) To translate into English a passage of French or German technical literature (dyeing course) or a passage of French and a passage of German (colour chemistry course).
2. A diploma may be granted upon a degree course provided that the subjects studied for the degree include those prescribed for the diploma, and that the other conditions are complied with.
3. A student producing evidence of adequate previous scientific or practical training, may, upon application to the Senate, be exempted from a portion of the normal course and may qualify for the diploma upon a shortened period of study.

LEATHER INDUSTRIES

The diploma in leather manufacture

The scheme of study which extends over three years will include:

First year	Chemistry Introductory Engineering IS Technology of leather manufacture L1 An introductory course in an additional subject to be selected in consultation with the head of the department of leather industries.
Second year	Chemistry Go Microscopy in leather manufacture L5 (second and third terms only) Technology of leather manufacture L2 Practical leather physics Leather industries laboratory work.

SCHEMES OF STUDY

Third year	Analytical chemistry of leather manufacture L3—part 1 (for part of the session only) Physics and chemistry of leather manufacture L4—part 1 (for part of the session only) Principles and methods of leather manufacture L6 Any two parts selected from the following: Analytical chemistry of leather manufacture L3—part 2 Physics and chemistry of leather manufacture L4—part 2 Advanced physics and chemistry of leather manufacture L7—parts 1—6 Leather industries laboratory work At times to be arranged during the three years: Practical leather manufacture L8.
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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 the chemistry of leather manufacture.

A student producing evidence of adequate previous scientific or practical training may, upon application to the Senate, be exempted from a portion of the normal course and may qualify for the diploma after a shortened period of study.

The postgraduate diploma in leather manufacture

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 in 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 leather manufacture 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 leather manufacture 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 leather manufacture or related fields.

AGRICULTURE

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 economics
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DIPLOMAS

	Statistics and field experimentation
	Teaching method
	Colloquium
	Farm classes
Second term	Agriculture
	Farm management
	Agricultural economics
	Statistics and field experimentation
	Colloquium
	Farm classes
Third term	Agriculture
	Farm management
	Agricultural economics
	Field experimentation
	Colloquium
	Farm classes

The diploma is governed by the following regulations:

1. Before entry upon the scheme of study candidates shall satisfy the head of the department of agriculture 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 head of the department.

The postgraduate diploma in agricultural bacteriology

The scheme of study which extends over one year is designed primarily for persons who have graduated in agriculture and who wish to obtain specialised training in the various branches of agricultural bacteriology.

First term	Agricultural bacteriology
	Bacterial chemistry
	Statistics
	Agricultural botany
	Veterinary science
Second term	Agricultural bacteriology
	Bacterial chemistry
	Statistics
Third term	Agricultural bacteriology
	Bacterial chemistry.

The diploma is governed by the following regulations:

1. Before entry upon the scheme of study candidates shall satisfy the head of the department of agriculture that their attainments in agricultural bacteriology, agricultural botany and agricultural chemistry are adequate.

2. Candidates must attend satisfactorily the courses 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 four papers: three in agricultural bacteriology and one in bacterial chemistry, together with a practical examination in agricultural bacteriology.

*The postgraduate diploma in agricultural botany**

The scheme of study which extends over one year is designed primarily for graduates with satisfactory attainments in botany who wish to develop careers as research workers, teachers or advisers in agricultural botany.

First term Agricultural botany
Principles of agriculture
Statistics

Second term Agricultural botany
Principles of agriculture
Agricultural zoology
Statistics

Third term Agricultural botany
Principles of agriculture.

The diploma is governed by the following regulations:

1. Candidates must attend satisfactorily the courses [including farm classes and excursions] prescribed in the scheme of study.

2. 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 three papers and a practical examination.

*The postgraduate diploma in plant pathology**

The scheme of study which extends over one year is primarily designed for graduates with satisfactory attainments in botany who wish to follow careers as research workers, as teachers or as field workers in plant pathology.

The scheme of study will involve whole-time work, mainly in the agricultural botany section of the department of agriculture but with some lectures in the sections of agricultural bacteriology, agricultural chemistry and agricultural zoology. The scheme is intended to give a sound introduction to the scientific study of plant diseases with special consideration of the problems they present in actual crop husbandry practice. Field work will form an essential part.

The diploma is governed by the following regulations:

1. Candidates must attend satisfactorily the lectures, practical classes and periods of field instruction prescribed in the scheme of study.

* This diploma is at present in abeyance.

2. 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 three papers and a practical examination.

The postgraduate diploma in agricultural chemistry

The scheme of study which extends over one year is primarily intended for graduates with satisfactory attainments in pure chemistry and some general knowledge of agricultural chemistry who wish to develop careers as research workers, teachers or advisers in agricultural chemistry.

First term	The chemistry of soil The chemistry of nutrition Principles of agriculture Agricultural bacteriology Statistics Colloquium
Second term	The chemistry of soil The chemistry of nutrition The chemistry of fertilisers, fungicides and insecticides Principles of agriculture Agricultural bacteriology Statistics Colloquium
Third term	The chemistry of soil The chemistry of nutrition The chemistry of fertilisers, fungicides and insecticides Principles of agriculture Colloquium.

The diploma is governed by the following regulations:

1. The course is open to graduates in chemistry who have passed the examinations of the University in Agricultural chemistry G1 and G2 or who have passed equivalent examinations in agricultural chemistry in some other institution.

2. Candidates must attend satisfactorily the courses [including farm classes 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 three papers and a two-day practical examination in agricultural chemistry.

The postgraduate diploma in agricultural economics

The scheme of study which extends over one year is primarily designed to provide training as research workers, teachers or advisers for persons who have graduated with Honours in economics.

SCHEMES OF STUDY

The scheme of study will include:

Production and distribution of agricultural income
Statistics
Principles of agriculture

Two of the following:

Rural social organisation
Economics of farm management
Land economics
Marketing of agricultural products
Tutorials.

The diploma will be governed by the following regulations:

1. Candidates must attend satisfactorily the courses [including farm classes and excursions] prescribed in the scheme of study.
2. To obtain the diploma candidates must satisfy the examiners appointed by the University in the examination to be held at the conclusion of the course. The examination will comprise four three-hour papers.
3. Candidates must present a thesis on a subject approved by the head of the agricultural economics section of the department of agriculture. Three copies of the thesis must be received by the Registrar not later than 15 May in the session of study.

The postgraduate diploma in agricultural zoology

The scheme of study which extends over one year is primarily intended for graduates with satisfactory attainments in pure zoology who wish to develop careers as research workers, teachers or advisers in agricultural zoology.

First term Agricultural zoology
 Principles of agriculture
 Statistics

Second term Agricultural zoology
 Principles of agriculture
 Agricultural botany
 Statistics

Third term Agricultural zoology
 Principles of agriculture.

The diploma is governed by the following regulations:

1. The course is open to graduates in zoology who have pursued a suitable course in entomology.
2. Candidates must attend satisfactorily the courses [including farm classes 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 end of the course. The examination will comprise three papers and a practical examination.

COURSES IN THE FACULTY OF TECHNOLOGY

The following pages give information concerning courses given in the Faculty of Technology. The information is arranged under the several departments in the Faculty and an indication is given of the degrees or other qualifications for which the courses are normally attended. Enquiries should be addressed to the sub-dean of the Faculties of Science and Technology, the tutor of women students or the appropriate head of department.

In most cases the name of each course is given first together with a reference number on the right hand side of the page. This is followed by the year of the student's career in which the course is normally attended followed by the days on which and, where sufficiently firmly established, the hours at which lectures are normally given. A brief indication is given of the content of the course and finally, where appropriate, particulars of the examination set on the subject matter. The scope of examinations, however, is often wider than that of single courses.

ENGINEERING

The courses in engineering specified in the schemes of study on pages 470 and fol. are subdivided as shown below. The Roman numeral following the name of each course denotes the year in which the course is normally taken. The letter indicates the department in which the course is taken [C—civil engineering; M—mechanical engineering; E—electrical engineering, with the letter S indicating supplementary courses]. The final Arabic numeral denotes the subject of the course.

CIVIL ENGINEERING

Engineering I consists of:

*Civil engineering	I C
Mechanical engineering	I SM
Electrical engineering	I SE
Engineering laboratory and drawing office	

Engineering II consists of:

Theory and design of structures	II C 1A
Structural analysis	II C 1B
Public health engineering and *surveying	II C 2, 3
Soil mechanics and highway engineering	II C 4, 8
Strength of materials	II C 6
Fluid mechanics	II C 7
Civil engineering drawing and design	
Engineering laboratory	
and one of the following:	
Architectural engineering	II C 5
Electric power engineering	II SE 1
Theory of machines	II SM 3
Production engineering	II M 5
An approved alternative subject	

* Easter vacation surveying course of two weeks in addition.

COURSES

Engineering III [for the degree with Honours] consists of:

Theory and design of structures	III C 1
Soil mechanics	III C 4
Civil engineering drawing and design	III C 10
Civil engineering laboratory	
and <i>three</i> of the following:	
Public health engineering	III C 2
*Surveying	III C 3
Architectural engineering	III C 5
Structural stress analysis	III C 6
Hydrology and water engineering	III C 7
Highway engineering	III C 8
Aircraft structures	III C 9
An approved alternative subject	

Engineering III [for the ordinary degree] consists of:

Theory and design of structures	III C 1
Soil mechanics	III C 4
Civil engineering drawing and design	III C 10
Civil engineering laboratory	
and <i>two</i> of the following:	
Public health engineering	III C 2
†Surveying	III C 3
Architectural engineering	III C 5
Structural stress analysis	III C 6
Hydrology and water engineering	III C 7
Highway engineering	III C 8
Aircraft structures	III C 9
An approved alternative subject	

Engineering IV consists of:

Three of the following:

Theory and design of structures	IV C 1A
Theory and design of structures	IV C 1B
Public health engineering	IV C 2
Soil mechanics	IV C 4
Architectural engineering	IV C 5
Structural stress analysis	IV C 6
Hydrology and water engineering	IV C 7
Highway engineering	IV C 8
Aircraft structures	IV C 9
An approved alternative subject	

MECHANICAL ENGINEERING

Engineering I consists of:

Strength of materials	I M 1
Heat engines	I M 2
Theory of machines	I M 3

* Field work in addition.

† Easter vacation surveying course of approximately two weeks in addition.

ENGINEERING

Fluid mechanics	I M 4
Engineering measurements	I M 5
Civil engineering	I S C
Electrical engineering	I S E
Engineering drawing	I drawing
Engineering laboratory	

Engineering II A consists of:

Strength of materials	II M 1
Heat engines	II M 2
Theory of machines	II M 3
Fluid mechanics	II M 4
Electric power engineering	II SE 1
Electronic engineering	II SE 2
Theory and design of structures	II SC 1
Drawing and design	
Engineering laboratory	
and <i>one</i> of the following:	
Production engineering	II M 5
Nuclear engineering	II M 8
An approved alternative subject	

Engineering II B consists of:

Strength of materials	II M 1
Heat engines	II M 2
Theory of machines	II M 3
Fluid mechanics	II M 4
Production engineering	II M 5
Electronic engineering	II SE 2
Drawing and design	
Engineering laboratory	

Engineering III A [for the degree with Honours] consists of:

Strength of materials	III M 1
Engineering thermodynamics	III M 2
Engineering dynamics	III M 3
Fluid mechanics	III M 4
Drawing, design and graphics	III M 6
Engineering laboratory	

Engineering III B [for the degree with Honours] consists of:

Strength of materials	III M 1
Engineering dynamics	III M 3
Engineering production and administration	III M 5
Drawing, design and graphics	III M 6
Engineering laboratory	

COURSES

Engineering III A [for the ordinary degree] consists of:

Strength of materials	III M 1
Engineering thermodynamics	III M 2
Engineering dynamics	III M 3
Fluid mechanics	III M 4
Drawing, design and graphics	III M 6
Engineering laboratory	

Engineering III B [for the ordinary degree] consists of:

Strength of materials	III M 1
Engineering dynamics	III M 3
Engineering production and administration	III M 5
Drawing, design and graphics	III M 6
Engineering laboratory	

Engineering IV consists of:

Either three of the following:

Theory of elasticity	IV M 1A
Theory of plasticity	IV M 1B
Thermodynamics (a) Combustion	IV M 2A
(b) Heat transfer	IV M 2B
Engineering dynamics (a) Vibration theory	IV M 3A
(b) Control theory	IV M 3B
Dynamics of fluids (a) Viscous flow	IV M 4A
(b) Turbulent flow	IV M 4B
(c) High speed flow	IV M 4C

or one of the above together with:

<i>either</i> Planning and control of production	IV M 5*
<i>or</i> Design project	IV M 6

ELECTRICAL ENGINEERING

Engineering I S consists of:

Civil engineering	I SC
Mechanical engineering	I SM
Engineering laboratory and drawing office	

Engineering II consists of:

Electric power engineering	II E 1
Electric circuit theory	II E 2
Electromagnetism	II E 3
Electronic engineering	II E 6
Electrical measurements	II E 9 †
Strength of materials	II SM 1
Engineering laboratory	

* Two papers are set in this subject.

† Not required for the ordinary degree.

ENGINEERING

and *one* of the following:

Heat engines	II SM 2
Theory of machines	II SM 3
Fluid mechanics	II SM 4
Production engineering	II M 5
Nuclear engineering	II M 8
An approved alternative subject	

Engineering III [for the degree with Honours] consists of:

*Scheme A**

Electric machines	III E 1
Electric circuit theory	III E 2
Electromagnetism	III E 3
Power systems	III E 4
Fundamentals of electron devices	III E 5
Control engineering	III E 8
Engineering laboratory	

*Scheme B**

Electric circuit theory	III E 2
Electromagnetism	III E 3
Fundamentals of electron devices	III E 5
Electronic engineering	III E 6
Electromagnetic waves	III E 7
Control engineering	III E 8
Engineering laboratory	

Engineering III [for the ordinary degree] consists of:

*Scheme A**

Electric machines	III E 1
Electric circuit theory	III E 2
Electromagnetism	III E 3
Power systems	III E 4
Control engineering	III E 8
Engineering laboratory	

*Scheme B**

Electric circuit theory	III E 2
Electromagnetism	III E 3
Electronic engineering	III E 6
Electromagnetic waves	III E 7
Control engineering	III E 8
Engineering laboratory	

Engineering IV consists of:

**Three* of the following:

General theory of electric machines	IV E 1
Electric circuit theory	IV E 2
Electromagnetism	IV E 3

* One subject may be replaced by a mechanical engineering subject with the approval of the head of the department.

COURSES

Power systems	IV E 4a
High voltage engineering	IV E 4b
Semi-conductors	IV E 5
Electromagnetic waves	IV E 7

AUXILIARY COURSES

Introductory courses

Introductory courses in engineering involve three hours' lectures a week and drawing office work under special arrangements. The course covers civil, mechanical and electrical engineering subjects, namely, Engineering I SC, I SM and I SE.

Engineering G1 and G2. There are two General courses, each consisting of three subjects chosen from the following:

Theory and design of structures	Hydraulics
Strength of materials	Electric power engineering
Heat engines	Electronic engineering
Theory of machines	

Each course involves three lecture hours and approximately three hours of laboratory work a week and candidates taking both courses will study at least six of the subjects listed. They must already have passed or been exempted from the examination on the Introductory course in engineering and those who wish to take electronic engineering must have taken or must take simultaneously electric power engineering or an approved course in physics.

Electrical engineering G1 and G2. There are two additional General courses in electrical engineering [Electrical engineering G1 and Electrical engineering G2] which may be taken for the degree in general studies in conjunction with physics.

To take Electrical engineering G1, candidates must have already passed the examination on Physics G1. To take Electrical engineering G2, candidates must have already passed the examination on Physics G1 and Electrical engineering G1, and must either have passed the examination on Physics G2 or be taking Physics G2 concurrently.

Candidates for the degree in another technological subject, normally those in the departments of fuel industries, mining or textile industries, may take Engineering I S (Introductory) or Engineering II S. The content of the course will be specially arranged in each case but will include all or part of the following:

Introductory (Engineering I S)

Civil engineering	I SC
Mechanical engineering	I SM
Engineering drawing	I S drawing

Engineering II S

Theory and design of structures	II SC 1
Strength of materials	II SM 1
Heat engines	II SM 2

ENGINEERING

Theory of machines	II SM 3
Mechanics of fluids	II SM 4
Electric power engineering	II SE 1
Electronic engineering	II SE 2

This latter course involves up to six hours a week of laboratory work and, for students taking theory and design of structures, three hours a week drawing office work.

The courses listed above will cover the following subject matter:

CIVIL ENGINEERING

Engineering I

CIVIL ENGINEERING

I C

Construction and public works engineering: Properties and applications of building materials; principles of design and construction of foundations, floors, walls, roofs, retaining walls, dams, roads, railways, bridges.

Theory of structures: Statically determinate structures; riveted and welded joints; reinforced concrete columns and beams.

Surveying: Basic principles and methods; chain surveying and traversing; levelling and contouring; tachemetry; civil engineering projects, including setting out of circular curves; basic land area and earthwork calculations.

FIELD SURVEYING

Practical field and drawing office work based on the content of the lectures outlined in I C above.

Engineering II

THEORY AND DESIGN OF STRUCTURES

II C 1 A

Bending moments and shearing forces for simple beams with moving loads; influence lines for simply supported beams and trusses; equivalent uniformly distributed loads; roof trusses and braced girders; design of riveted and welded connections under direct and eccentric loads; complete design of a plate web girder; design in detail of steel roof trusses and timber framed structures; reinforced and prestressed concrete.

STRUCTURAL ANALYSIS

II C 1 B

Statics and indeterminacy. Space structures. Virtual work and strain energy theorems. Deflections of structures. Müller-Breslau's principle. Influence lines. Moment distribution. Plastic collapse methods. Elastic instability.

PUBLIC HEALTH ENGINEERING

II C 2

Water supply: Hydrology, sources of water, demand, impurities, treatment.

Sewerage: Systems of sewerage, the design of sewers.

Treatment of water-borne wastes: Chemistry of sewage, natural purification, biochemical reactions, methods of treatment.

Solid community wastes: Treatment, recovery and utilisation.

Fundamental aspects of radioactive contamination of water and sewage, and of atmospheric pollution.

COURSES

SURVEYING

II C 3

Plane table, hydrographic and tunnel surveys. Surveying instruments and their adjustment. Setting out transition curves and vertical curves. Earthwork quantities.

FIELD SURVEYING

Practical field and drawing office work based on the content of the lectures in surveying outlined in II C 3 above.

SOIL MECHANICS

II C 4

Geological aspects of soil mechanics. Soil classification and identification. Mechanical properties of soils. Stresses in soil masses. Rankine's theory.

ARCHITECTURAL ENGINEERING

II C 5

Survey of architectural and engineering design. Development of arches, domes and vaulting applied to bridges, buildings etc. General principles of heating, ventilation, air conditioning, sound insulation and auditorium acoustics.

STRENGTH OF MATERIALS

II C 6

Elementary theory of elasticity; compound stresses, principal stresses; Mohr's circle of plane stress; stresses in cylinders under internal pressure; torsion of circular shafts; coil and laminated springs; combined torsion and bending; elastic instability; fatigue.

FLUID MECHANICS

II C 7

Liquid motion; flow through orifices and over weirs; pipe and channel flow; dynamic pressure and impact of liquids; hydraulic transmission of power; dimensional analysis; pump and turbine theory; flow of gases.

HIGHWAY ENGINEERING

II C 8

Road construction: location and survey, soil stabilisation, drainage, road making materials, flexible roads, concrete roads.

Traffic studies: Traffic surveys, road capacities, layout and pattern, road functions and requirements.

DRAWING AND DESIGN

Graphical determination of moments, centroids and moments of inertia of sections; deflection and slope of beams from bending moment diagrams; beams of varying cross section. Complete designs and detail drawings of plate girders, roof trusses, and other steel or timber structures. Graphical methods for analysis of simple beams and girders subjected to moving loads. Planning of individual buildings and development of more advanced detail drawings.

SUPPLEMENTARY COURSES

The material of the courses I SC and II SC 1 is similar to that of the respective parallel courses I C and II C 1. The 'S' courses however are arranged to finish at the end of the second year, whereas the others are continued as III C courses in the third year.

Engineering III

THEORY AND DESIGN OF STRUCTURES

III C 1

Influence lines; space frames; redundant structures. Struts and laterally-loaded columns. Welded connections. Suspension bridges. Arches. Dams. Design of structures in steel, masonry, reinforced and pre-stressed concrete, aluminium and timber. Plastic theories. Theory of model structures.

PUBLIC HEALTH ENGINEERING

III C 2

Water supply and treatment, distribution, pumping, various design calculations. Sewerage: Run-off calculations, design of sewerage system details.

Treatment of water-borne wastes: Design of treatment plant units, the sludge problem.

Further aspects of radioactive contamination of sewage and water, and of atmospheric pollution.

Financial considerations.

SURVEYING

III C 3

Effects of errors in instruments. Triangulation surveys. Base line measurement.

Precise and trigonometrical levelling. Adjustment of errors in surveying and levelling. Geodetic and map projection computations. Electronic methods of surveying. Geophysical methods of site investigation. Ground and air photographic surveys and photogrammetry. Route surveys. Mass haul curve.

FIELD SURVEYING

Practical field and drawing office work based on the content of the lectures in geodesy and geophysics outlined in III C 3 above.

SOIL MECHANICS

III C 4

Soil properties. Identification and classification of soils. Soils survey procedure. Testing of foundation soils. Settlement and consolidation. Earth pressure theories. Design of foundations and retaining walls. Cuttings and embankments. Theory and practice of piling.

ARCHITECTURAL ENGINEERING

III C 5

Twentieth-century design with special reference to developing techniques involving the use of thin shells. Governing elastic equations for slabs and boundary equations for various edge conditions. Membrane theory for domes and shells. Introduction to bending theory for shells and surfaces of revolution. Fracture line theory for slabs. Beam theory and extended beam theory for cylindrical shells.

STRUCTURAL STRESS ANALYSIS

III C 6

Experimental stress analysis—strain gauges, brittle lacquers, photo-elasticity model methods. Mathematical theory of elasticity and photo-elasticity. Theory of plates and membranes. Torsional stresses. Elastic instability. Analogue methods. Theories of failure and design.

HYDROLOGY AND WATER ENGINEERING

III C 7

Channel flow characteristics. Gradually varied flow. Channel transitions and controls. Measurement of flow. Sediment transportation. Meanders. Precipitation, transpiration and evaporation. Groundwater. Analysis of hydrographs. Flood routing and control. Waves and tides. Beach formation and control. Water hammer. Surge tanks. Hydraulic structures. Hydraulic models.

COURSES

HIGHWAY ENGINEERING

III C 8

Road construction: Pavement design, soil stabilisation, embankments and cuttings, site investigation, earthwork calculations.

Traffic engineering: Theoretical studies, road alignment, problems of parking and congestion, national and regional roads, safety. Aesthetic and economic considerations.

AIRCRAFT STRUCTURES

III C 9

Principles in the design and stress-analysis of stressed-skin aircraft structures.

Structural requirements; aerodynamic and inertia loads, gust and manoeuvre loads; flight and gust envelopes. Bending and torsion of beams of arbitrary cross-sectional shape; shear distribution in, and sheer centre and deflections of thin-walled open, closed and multi-cell tubes; stresses due to restrained warping of tubes; Neuber tubes; St. Venant torsion of non-circular sections, Wagner torsion-bending theory, and Bredt-Batho torsion of closed tubes; taper effects. Diffusion of load; effect of cut-outs; combined bending and compression of panels; structural instability and modes of buckling of plates; effects of vibrations; elementary aero-elasticity. Materials of aircraft construction, light alloys, titanium reinforced plastics; heat treatment; effects of kinetic heating; fatigue and creep. Testing of full-scale and model structures.

DESIGN AND DRAWING

III C 10

Maximum and minimum forces in structures subject to moving loads. Design of braced girders, roof trusses and other types of steel structures. Design of reinforced concrete and pre-stressed concrete structures. Design of welded structures. Suspension bridges. Retaining walls, dams, embankments, etc. Preparation of working drawings, bills of quantities, etc.

[Candidates for the degree in civil engineering in their final year must prepare designs and drawings in a structural design and drawing examination of three days' duration which will be held early in the last term of the session.]

MECHANICAL ENGINEERING

Engineering I

MECHANICAL ENGINEERING

I M

Strength of materials: Stress, strain and elasticity; properties and testing of metallic materials; thin cylindrical and spherical vessels; columns; shearing force and bending moment diagrams; theory of simple bending; deflection of simple beams and cantilevers; simple torsion.

Heat engines: Properties of fluids; general energy equation for fluid flow; theory of heat; the first and second laws of thermodynamics; criterion of reversibility; heat engines; refrigerators and heat pumps; principles of heat transfer; elementary theory of machines.

Fluid mechanics: Hydrostatics; elementary fluid dynamics; dynamics of turbines.

Engineering II

STRENGTH OF MATERIALS

II M 1

Strain energy; suddenly applied loads; laminated and coil springs. Compound stresses; principal stresses; theories of elastic breakdown. Castigliano's theorem. Reciprocal theorem. Redundant beam problems. Struts. Fatigue.

HEAT ENGINES

II M 2

General thermodynamic relations; reversible engine cycles; ideal cycles; application to internal combustion engines and gas turbines; properties of real fluids; steam engines and steam turbines; properties of refrigerants; vapour compression refrigerators and heat pumps.

THEORY OF MACHINES

II M 3

Geometry of gear teeth. Simple acceleration diagrams; inertia forces in mechanism. Feedback ideas in machines; governing. Vibration with one degree of freedom.

FLUID MECHANICS

II M 4

Principles of hydraulics. Discharge from orifices, notches and weirs. Flow in pipes and channels. Measurement of stream discharge. Fluid friction. Transmission of power by fluids. Water hammer. Impact of water. Elementary theory of turbines and pumps. Dimensional analysis.

PRODUCTION ENGINEERING

II M 5

Functions and scope of production engineering. Metrology: system of limits and fits, gauging and measurement. Machine tools: machining processes feeds and speeds, tool dynamometers, forces and power in machining, machining times, alignment tests of machine tools, surface finish.

NUCLEAR ENGINEERING

II M 8

Basic physics of the nucleus; its application to nuclear reactions; engineering applications of nuclear reactions.

SUPPLEMENTARY COURSES

The material of courses I SM, II SM 1, II SM 2, II SM 3, II SM 4 is similar to that of the respective parallel courses I M, II M 1, II M 2, II M 3, II M 4. The 'S' courses however are arranged to finish at the end of the second year, whereas the others are continued as III M courses in the third year.

Engineering III

STRENGTH OF MATERIALS

III M 1

Advanced theory of bending; plates. Elastic stability. Rotational and thermal stresses with axial symmetry. Real materials. Experimental stress analysis.

ENGINEERING THERMODYNAMICS

III M 2

Advanced thermodynamics. Advanced theory of steam engines, steam turbines, internal combustion engines, internal combustion turbines, air compressors, air motors. Fluid flow in orifices and nozzles; supersaturation; instrumentation and interpretation of test data; heat transfer; radiation, conduction and convection.

COURSES

ENGINEERING DYNAMICS

III M 3

Bevel, worm and other gears. More difficult acceleration diagrams. Forced vibration with two or more degrees of freedom. Shaft whirl. Gyroscopes. Stability of automatic control systems.

FLUID MECHANICS

III M 4

Advanced theory of discharge from orifices, weirs and flumes; non-uniform flow in channels. Ideal fluid theory. Viscous resistance of fluids including pipe flow. Dimensional theory; principle of dynamical similarity with applications to hydraulic and aerodynamic problems. Boundary layer theory. Water turbines. Hammer blow in pipe lines; surge tanks. Reciprocating pumps; centrifugal pumps.

ENGINEERING PRODUCTION AND ADMINISTRATION

III M 5

Engineering production processes; machineability; theory of metal cutting. Economics of machinery; principles of industrial administration; factory layout; materials handling; stock control; production control; engineering economic analysis; statistical methods; work study; incentives; social aspects of management.

DRAWING, DESIGN AND GRAPHICS

III M 6

General and detail design of machine assemblies; analysis of manufacturers' designs; preparation of working drawings; the principles of kinematics and dynamics of machines; graphical solution of problems in balancing, vibration, whirling of shafts, and critical speeds of engines.

ENGINEERING MEASUREMENTS

III M 8

Principles of engineering measurement. Mechanical, pneumatical, optical and electrical methods. Surface finish measurements. Gear tooth profile measurement.

ELECTRICAL ENGINEERING

Engineering I

ELECTRICAL ENGINEERING

I E

Engineering applications of Kirchhoff's laws; alternating current circuits and their analysis by graphical and symbolic methods; measurements and measuring instruments.

The M.K.S. unit system; conductors, insulators and capacitance; the magnetic field; electromagnetic relations; the magnetic circuit and the characteristics of iron.

Principles and performance of d.c. and a.c. machines, and of transformers. Three-phase circuits; power systems.

Vacuum and gasfilled diodes and triodes; transistors. Rectifiers and filters. Simple voltage amplifiers using thermionic triodes and transistors. The cathode-ray tube.

ENGINEERING

Engineering II

ELECTRIC POWER ENGINEERING

II E 1

Performance and testing of d.c. machines; commutation; principles of armature winding. The transformer; the three-phase induction motor; the alternator. Elements of machine control.

ELECTRIC CIRCUIT THEORY

II E 2

General circuit theorems; symbolic treatment of a.c. circuits; 2- and 4-terminal networks; tuned circuits; power in a.c. systems; effect of harmonics.

ELECTROMAGNETISM

II E 3

Electrostatics and its engineering applications; calculation of capacitance. The magnetic field of steady currents; the magnetic circuit law; calculation of magnetic fields. Electromagnetic induction; self and mutual inductance.

ELECTRONIC ENGINEERING

II E 6

Audio-frequency voltage and power amplifiers; response and phase shift of resistance-capacitance coupled amplifiers. Radio-frequency voltage amplifiers, gain and bandwidth. Feedback in amplifiers; effect on performance. Oscillator circuits. Special amplifier circuits, including the cathode follower and direct coupled amplifier.

ELECTRICAL MEASUREMENTS

II E 9

Standards of resistance etc., a.c. bridge circuits; special types of meter; magnetic measurements; instrument transformers; high voltage measurements; valve voltmeters and cathode-ray oscillographs.

SUPPLEMENTARY COURSES

The material of courses I SE, II SE 1, II SE 2 is similar to that of the respective parallel courses I E, II E 1, II E 6. The 'S' courses however are arranged to finish at the end of the second year, whereas the others are continued as III E courses in the third year.

Engineering III

ELECTRIC MACHINES

III E 1

The principles, performance, testing and control of transformers and machines, including single-phase and polyphase a.c. commutator motors.

ELECTRIC CIRCUIT THEORY

III E 2

Fundamental theory of lumped circuits under both steady-state and transient conditions.

ELECTROMAGNETISM

III E 3

Maxwell's equations in vector form; steady-state theory of transmission lines; eddy currents and skin effect. Electromagnetic forces. Vector potential and its applications. Electromagnetic phenomena in moving bodies.

POWER SYSTEMS

III E 4

Generation of electrical energy. Theory of power transmission lines; power system control; fault calculations; circuit interruption; protection. Power system economics.

COURSES

FUNDAMENTALS OF ELECTRON DEVICES

III E 5

Motion of charged particles in electric and magnetic fields; electrical properties of solids, liquids and gases; electron emission; applications to thermionic, semi-conductor and other devices.

ELECTRON ENGINEERING

III E 6

Introduction to modulation systems. Demodulation and frequency changing. Gain-bandwidth product in band-pass amplifiers. Wide-band amplifiers. Wave form generators, including multivibrator and time base circuits.

ELECTROMAGNETIC WAVES

III E 7

Waves in homogeneous media; retarded values; reflection and refraction. Energy flow and the Poynting vector. Guided waves. Radiation from dipoles.

CONTROL ENGINEERING

III E 8

Open and closed-loop control. Application of feedback principle to servo systems. Damping. Steady-state and transient response; stability criteria. Electronic, magnetic and rotary amplifiers; servomotors. Position, speed, voltage and process control systems.

Engineering IV

This course is for students who intend to read for Honours. It is essentially a course of advanced study, and work of a specialised character will be undertaken in each of the various subjects. In general, some aspect of the work covered in the corresponding subjects of Engineering III will be developed.

MINING

For the ordinary degree of Bachelor of Science and for the degree of Bachelor of Science with Honours in mining

MINING 1A

First or 2nd years; Friday 11 to 12.

Prospecting, boring and sinking; supports.

MINING 1B

Second or 3rd years; Wednesday 12 to 1. Laboratory work, Monday 2 to 5 and/or Friday 10 to 1.

Mine lighting, mine atmospheres. Hot and deep mines. Health and safety.

Examination: 1 paper on Mining 1A and Mining 1B.

MINING 2

Third or 4th years; Monday 11 to 12 and Tuesday 10 to 11.

Breaking ground and blasting; methods of working stratified and unstratified mineral deposits.

Examination: 1 paper.

MINING

MINING 3

Third or 4th years; Monday 10 to 11 and Tuesday 12 to 1. Laboratory work, Monday 2 to 5 and Wednesday 11 to 12 (Colloquium).

Winding, haulage and transport; pumping; transmission of power.

Examination: 1 paper.

MINING 4

Third or 4th years; Tuesday 11 to 12 and Wednesday 10 to 11. Laboratory work, Monday 2 to 5.

Ventilation; coal dust and firedamp explosions; spontaneous combustion and fires; rescue and safety.

Examination: 1 paper.

MINING 5

Third year; Wednesday and Friday 9 to 10. Laboratory work, Friday 2 to 5. Principles of mineral dressing and coal preparation.

Examination: 1 paper.

MINING 6A

Third or 4th years; Monday 9 to 10.

Mine economics, mining law; management.

MINING 6B

Third or 4th years; Wednesday 12 to 1.

Principles and application of geophysical surveying; elements of subsidence.

Examination: 1 paper on Mining 6A and Mining 6B and Mining laboratory.

For the degree of Bachelor of Science with Honours in mining

MINING 7

Third or 4th years; At times to be arranged.

Advanced elements of mining.

Examination: 1 paper.

PLANNING AND LAYOUT

Third or 4th years; Saturday 9 to 12.

Design of surface and underground installations and mine workings.

SURVEYING

Second or 3rd years; Monday and Tuesday 10 to 11. Drawing office work, Monday 11 to 12 and Tuesday 11 to 1.

Plane and geodetic surveying.

Examination: 1 paper.

MINE SURVEYING

Third or 4th year; Thursday 10 to 11. Drawing office work, Thursday 11 to 1 and 2 to 5.

Theory of errors; underground surveying; correlation of surface and underground surveys; borehole surveying.

Examination: 1 paper.

COURSES

For the degree of Bachelor of Science in general studies

MINING G 1 (SURVEYING)

Second year; Monday and Tuesday 10 to 11. Drawing office work, Monday 11 to 12 and Tuesday 11 to 1.

Plane and geodetic surveying.

Examination: 1 paper.

MINING G 2 (APPLIED GEOPHYSICS)

Second year; Two lecture hours and 3 hours' laboratory work a week at times to be arranged.

The principles and application of geophysics in investigations of geological structures.

Examination: 1 paper.

MINING G 3 (MINERAL DRESSING)

Second year; Wednesday and Friday 9 to 10. Laboratory work, Friday 2 to 5. The principles of mineral dressing and coal preparation.

Examination: 1 paper.

For the postgraduate diploma in mineral dressing and coal preparation

MINERAL DRESSING 1

Postgraduate; Tuesday 11 to 12.

Comminution: Advanced theory and practice.

Flotation: Advanced theory and practice.

MINERAL DRESSING 2

Postgraduate; Monday 10 to 11.

Efficiency of washing operations and plant performance. Miscellaneous processes of concentration.

MINERAL DRESSING 3

Postgraduate; Friday 11 to 12

Laboratory sizing; principles of screening and filtration.

MINERAL DRESSING 4

Postgraduate; Wednesday 10 to 11.

Motion of solids in fluids; classification; concentration.

MINERAL DRESSING 5

Postgraduate; Thursday 9 to 10.

Dense media separation: cyclones; thickening.

MINERAL DRESSING 6

Postgraduate; Friday 2 to 5.

Plant layout and design.

Examination: 3 papers covering Mineral dressing 1, 2, 3, 4 and 5.

FUEL SCIENCE, GAS ENGINEERING, CERAMICS, CHEMICAL
ENGINEERING AND METALLURGY

*For the ordinary degree of Bachelor of Science and for the degree of Bachelor of Science
with Honours*

FUEL INTRODUCTORY

First year; One hour a week.

An introduction to the origin, properties and assessment of primary fuels, to the manufacture and purification of secondary fuels and to the industrial and domestic use of solid, liquid and gaseous fuels.

Examination: 1 paper of 1½ hours.

FUEL AND NON-METALLIC MATERIALS FOR MECHANICAL AND
ELECTRICAL ENGINEERS

Second or 3rd year; Each part 1 hour a week for 1 term.

Part I. *Fuel*. The principles of the selection and utilisation of fuels for industrial combustion.

Part II. *Ceramics*. Elementary science of: Ceramics for mechanical and nuclear engineering; electrical insulator ceramics, high-permittivity, piezoelectric and magnetic ceramics, and semi-conductors; glasses; adhesives; the main families of thermosoftening and thermosetting plastics.

Examination: 1 paper of 1½ hours.

FUEL SCIENCE 1

First year; One hour a week.

A general course reviewing the origin, properties, distribution, sampling, testing, preparation and processing of primary fuels and the utilisation of primary and secondary solid, liquid and gaseous fuels.

Examination: 1 paper of 1½ hours.

*FUEL SCIENCE 2

Third year; One hour a week.

The science and technology of the production, processing and utilisation of petroleum and its products.

Examination: 1 paper of 2 hours.

GAS ENGINEERING 1

Second year; Two hours a week.

The principles of the combustion of solid, liquid and gaseous fuels and their application to steam generation and furnace heating. The principles of steam utilisation. The science and technology of carbonisation, gasification and gas treatment.

Examination: 1 paper of 3 hours.

GAS ENGINEERING 2

Fourth year; One hour a week (two terms only).

The physical properties of fluids in relation to industrial practice.

Examination: 1 paper of 1½ hours.

* This course will be supplemented from time to time by additional lectures on recent developments in the petroleum industry by visiting lecturers.

COURSES

FUEL SCIENCE 3

Third and 4th years; Two hours a week.

The origin of coal and of coalfields. Coal systematics. Coal petrology. The properties, physical structure and chemical constitution of coal. The rheological properties of coal and the coking mechanism. The physical structure of coke.

Examination: 1 paper of 3 hours.

FUEL SCIENCE 4

Fourth year; One hour a week (two terms only).

The chemical kinetics and thermodynamics of reactions involved in the utilisation of fuel and in allied processes.

Examination: 1 paper of $1\frac{1}{2}$ hours.

FUEL SCIENCE 5

Fourth year; One hour a week.

Fundamental physical and chemical aspects of flame and combustion in gases. Solid and liquid propellants.

Examination: 1 paper of $1\frac{1}{2}$ hours.

GAS ENGINEERING 3

Third and 4th years; Monday 2 to 3 and 3.30 to 4.30.

Coal carbonisation and by-product treatment in the gas and coking industries.

The disposal of industrial wastes. The manufacture and treatment of producer gas, blue water gas, carburetted water gas, oil gas and synthesis gas.

The economics of the carbonisation industries. The distribution of gas at low, medium and high pressures.

Examination: 1 paper of $1\frac{1}{2}$ hours.

FUEL SCIENCE 6

Third and 4th years; Monday 2 to 3 and 3.30 to 4.30.

Coal and boiler practice; furnace practice; fuel economics; the testing of combustion plant; properties and combustion of fuel gases and coke; properties and combustion of liquid fuels; power generation and utilisation; economics of power generation.

Examination: 1 paper of $1\frac{1}{2}$ hours.

FUEL SCIENCE 7

Fourth year; One hour a week.

The physical properties of petroleum and its products in relation to their utilisation.

PROCESS INSTRUMENTATION 1

Second or 3rd years; One hour a week and 1 more lecture a week in the first or second term.

Theoretical principles and design of instruments for the measurement of process operating variables, temperature, pressure, flow, gas analysis, etc.

Examination: 1 paper of $1\frac{1}{2}$ hours.

PROCESS INSTRUMENTATION 2

Third or 4th years; One hour a week and 1 more lecture a week in the first or second term.

Theoretical principles and design of instruments for the automatic control of process operations.

Examination: 1 paper of 1½ hours.

RESEARCH PRINCIPLES

Fourth year; One hour a week.

A survey of research methods and an introduction to the design of experiments and the analysis of experimental data.

CHEMICAL ENGINEERING 1A

Third year; One hour a week.

A study of the unit operations of chemical engineering.

Examination: 1 paper of 1½ hours.

CHEMICAL ENGINEERING 1B

Fourth year; Four hours a week.

A more advanced study of the unit operations and processes of chemical engineering.

Examination: 2 papers of 3 hours each.

CHEMICAL ENGINEERING 2

Fourth year; Two hours a week.

The principles of selection of materials for the fabrication of chemical engineering plant.

Examination: 1 paper of 3 hours.

CHEMICAL ENGINEERING 3

Fourth year; One hour a week.

Introductory fluid dynamics.

CHEMICAL ENGINEERING 3A

Third year; One hour a week.

A study of heat transfer and heat transfer equipment.

Examination: 1 paper of 1½ hours.

CHEMICAL ENGINEERING 3B

Fourth year; Two hours a week.

A more advanced study of the transfer of heat.

Examination: 1 paper of 3 hours.

CHEMICAL ENGINEERING 4

First year; Two hours a week.

A study of the more important processes of the heavy chemical industry.

Examination: 1 paper of 3 hours.

COURSES

CHEMICAL ENGINEERING 5

Fourth year; Twelve hours a week for second term.

Tutorial course on chemical engineering; calculations involving the design of a number of units of industrial chemical equipment.

INTRODUCTORY CERAMICS

First or 2nd years; One hour a week.

An introduction to refractory materials and ceramics in general. Historical and economic background, nature of raw materials, the clay-water system, methods of forming, drying and firing ceramic articles, kilns, phase equilibria and firing reactions, glazes, refractory materials, electrical ceramics, sintered oxides.

Examination: 1 paper of $1\frac{1}{2}$ hours.

For the degree of Bachelor of Science with Honours

CERAMICS 1

Second year; Two hours a week.

The history and economics of the ceramic industry; distribution and nature of raw materials; principles of reactions and processes involved in the production of the main types of ceramic materials.

Examination: 1 paper of 3 hours.

CERAMICS 1B (NON-METALLIC MATERIALS OF CONSTRUCTION FOR CHEMICAL ENGINEERING)

Second year; One hour a week.

An introduction to non-metallic materials of construction, with particular reference to the chemical industry. Properties and uses of refractory materials, stoneware, glass, fused silica, enamelled ware, carbon, hydraulic cements, timber, rubber, synthetic polymers.

Examination: 1 paper of 2 hours.

CERAMICS 2 (CERAMICS FOR THE FUEL INDUSTRIES)

Third or 4th years; One hour a week.

Raw materials available; their manufacture into the products used in the carbonisation, metallurgical, cement, glass and chemical industries, chemical and physical testing, behaviour of refractory materials in service, and the manufacture and use of high temperature insulating materials.

Examination: 1 paper of $1\frac{1}{2}$ hours.

CERAMICS 3

Third or 4th years; One hour a week.

A study of the manufacture, constitution, properties and application of the refractory materials used in the metallurgical industries. An appreciation of oxide and other pure ceramics of importance to metallurgists.

Examination: 1 paper of $1\frac{1}{2}$ hours.

CERAMICS 4 (BASIC CHEMISTRY AND PHYSICS OF CERAMICS)

Third year; Two hours a week.

The fundamental physical and chemical processes related to the science and technology of ceramics and refractories. Theory of particle packing, the clay-water system, clay organic complexes, theory of drying, phase equilibria and interpretation of phase diagrams, the mechanism and kinetics of solid-state diffusion, phase transformations, sintering, recrystallization and grain-growth of ceramics, reactions of ceramics with gases, liquids and solids.

Examination: 1 paper of 3 hours.

CERAMICS 5 (MINERALOGY AND CRYSTAL STRUCTURE)

Third year; One hour a week.

The structures of silicates and related minerals of interest in ceramics.

Examination: 1 paper of $1\frac{1}{2}$ hours.

CERAMICS 7 (PROCESS CERAMICS)

Third year; One hour a week.

The technology and scientific principles of ceramic processes, including the stages of manufacture, properties of the products, behaviour in service and analysis of common defects. The theory and practice of compounding and applying glazes. The design and operation of the principal types of kiln.

Examination: 1 paper of $1\frac{1}{2}$ hours.

CERAMICS 10 (PHYSICS OF NON-METALLIC SOLIDS)

Fourth year; One hour a week.

Theory of the mechanical, thermal, optical, electrical and magnetic properties of non-metallic solids, including oxides, halides, carbides and certain elements.

CERAMICS 11 (CERAMICS LABORATORY TECHNIQUES)

Fourth year; One hour a week.

Techniques of classical and rapid silicate analysis; instrumental methods of analysis. Measurement of particle size distribution from sub-micron to sieve sizes. Rheological measurements on clay-water systems, electrochemical methods. Measurement of drying rates and size changes. Measurement of bulk properties, permeability, thermal properties, mechanical properties, electrical properties. Microscopical methods and phase equilibrium techniques. Thermal analysis. Use of X-ray diffraction, fluorescence analysis and the electron microscope.

CERAMICS 12 (POTTERY AND STONEWARE)

Fourth year; One hour a week.

The present basic knowledge of forming and drying, the mineralogical and physical changes on firing, the physical and chemical properties of the products and the defects and problems of manufacture and service. The science of glazes, glaze colours and their application.

CERAMICS 13 (HEAVY CLAYWARE)

Fourth year; One hour a week.

A parallel course to Ceramics 12 dealing with the science and technology of heavy clayware.

COURSES

CERAMICS 14 (REFRACTORY MATERIALS)

Fourth year; One hour a week.

The general properties and methods of testing; manufacture of silica, aluminosilicate and basic refractories, with particular reference to the physics and chemistry of the reactions and processes taking place; the less common refractories, castable refractories, insulating refractories and super-refractories.

CERAMICS 15 (ELECTRICAL AND MAGNETIC CERAMICS)

Fourth year; One hour a week.

Ceramics of present and potential importance for electrical and magnetic applications. Insulator, high-permittivity, piezoelectric, semi-conductor (including rectifier and transistor), photoelectric, thermoelectric, soft and hard magnetic materials.

CERAMICS 16 (CERAMICS FOR MECHANICAL AND NUCLEAR ENGINEERING)

Fourth year; One hour a week.

Oxides, carbides, carbon, silicides, borides, nitrides, cermets, ceramic coatings, etc., for rocket, nuclear reactor and other applications.

INTRODUCTORY METALLURGY

First year; One hour a week.

A general review of metallurgy, principally from the viewpoint of engineering applications, given in separate classes for civil, mechanical and electrical engineers and members of the Houldsworth School.

Examination: 1 paper of 1½ hours.

METALLURGY 2

First year; One hour a week.

The extraction of the common metals and their applications in mining engineering [for mining students].

Examination: 1 paper of 1½ hours.

METALLURGY 3E

Second and 3rd years; Three hours a week.

Commercial alloys; structure of alloys; metals technology [for civil engineering students].

Examination: 1 paper and a practical examination.

CRYSTAL STRUCTURE

First year; One hour a week.

The atomic background to physical metallurgy.

MINERAL FORMATION AND MINERAL DRESSING (METALLURGY SCHEME A)

Second year; One hour a week.

Mineral formation and unit processes in mineral dressing. Current mineral dressing practice.

NON-FERROUS METALS EXTRACTION (METALLURGY SCHEME A)

Second year; One hour a week.

Chemical thermodynamics. Application and limitations of thermodynamics in relation to the established techniques for the extraction and refining of non-ferrous metals, including electro-chemical methods, distillation and pyrometallurgical processes.

ELEMENTS OF QUANTUM MECHANICS

Second year; One hour a week.

Classical theory of waves. Wave properties of matter. Schrödinger's equation; solutions for the harmonic oscillator and the hydrogen atom. Periodic classification of the elements. Binding in diatomic molecules.

COMMERCIAL ALLOYS

Third year; One hour a week.

Price and bulk properties of the metallic elements. Corrosion and methods of protection. Alloys of aluminium, copper and nickel. Structural and constructional steels. Tool steels. Magnetic alloys. Stainless steels. High-temperature alloys. Alloys for nuclear engineering. Cast irons.

IRONMAKING

Third year; One hour a week.

The blast furnace process, its recent modifications, and the alternative iron-making processes. Availability, beneficiation and concentration of iron ores; varying practices in different parts of the world.

ECONOMICS

Third year; 1 hour a week.

History and present structure of the iron and steel industry in the United Kingdom, and abroad.

THERMODYNAMICS OF SOLUTIONS

Third year; One hour a week.

Entropy and disorder. Free energy. Vacancies in metals. Order-disorder transformations. Chemical potentials. Equilibrium diagrams. Activity and fugacity coefficients of regular solutions. Experimental methods for determining the thermodynamic functions of solutions.

METAL PHYSICS 1

Fourth year; One hour a week.

Plastic deformation by slip and twinning. Dislocations in crystals. Dislocation theory of plastic deformation of metals. Griffith fracture. Dislocation theory of fracture and the ductile-brittle transition in iron.

METALS TECHNOLOGY

Fourth year; One hour a week.

Forging, extrusion, wire-drawing, rolling and joining of metals. Theories of elasticity and plasticity and their application to the shaping of metals. Hardness tests. Rheology.

RESEARCH TECHNIQUES

Fourth year; One hour a week.

Electronics; microscopy; high vacua.

POINT IMPERFECTIONS IN SOLIDS

Fourth year; One hour a week.

Diffusion and random atom movements. Diffusion ellipsoid. Damping and anelasticity due to interstitial solutes vacancies. Irradiation damage. Impurity atoms in metals. Zone-refining. Fabrication of semi-conductor devices.

STEELMAKING

Fourth year; One hour a week.

Refining and deoxidation reactions and techniques. Open hearth and converter practice. Electric steelmaking. Furnace design and control. Mixers. Duplex processes. Ingot manufacture. Oxygen developments in established processes. New developments in steelmaking processes, e.g., oxygen processes and the vacuum treatment of liquid steel.

STRUCTURE OF ALLOYS

Fourth year; One hour a week.

Phase transformation in cross-carbon alloys. Nucleation and growth; precipitation; age-hardening; recovery, polygonisation and recrystallisation with some applications of dislocation theory. Dislocation-solute atom strain interactions.

FOUNDRY TECHNOLOGY (METALLURGY SCHEME A)

Fourth year; One hour a week.

The cast form and the design of castings. Liquid metals and solidification; techniques for their control in the manufacture of castings. Moulding materials: Properties, preparation and control. Foundry production processes. Design features and the causes, detection, prevention and significance of casting defects. Special foundry techniques; Centrifugal casting, precision, shell and die casting, etc.

INDUSTRIAL PRACTICE (METALLURGY SCHEME A)

Fourth year; One hour a week.

Survey of industrial production practices with particular reference to the functions of the metallurgical graduate.

CRYSTAL PHYSICS

Fourth year; One hour a week.

Cartesian tensors of second and fourth order; identity transformations. Thermal and electrical conductivity of crystals. Elasticity of crystals. X-ray diffraction and the determination of crystal orientations. Stereographic projections.

METAL PHYSICS 2 (METALLURGY SCHEME B)

Fourth year; One hour a week.

Theory of impurity locking of dislocations. Dislocation reactions. Creep. Stress concentration at cracks.

ELECTRONS IN SOLIDS

Fourth year; One hour a week.

Motion of electrons in a periodic potential. Metals, insulators and semi-conductors. Cohesion in metals. Electron theory of alloys. Electrical properties of semi-conductors.

TEXTILE INDUSTRIES

GENERAL TEXTILE TECHNOLOGY

Thursday 9 to 10.

Preliminary survey of the structure and properties of textile fibres, followed by an outline of their manipulation in scouring, carding, spinning, weaving, knitting and finishing. Quality control and textile testing.

RAW MATERIALS 1

First year; Thursday 9 to 10 and 11 to 12.

Wool. Growth and structure of the wool fibre; impurities and special features of wool; wool sorting, wool qualities, wool tops; British sheepfarming, breeds and wools; breeding, inheritance and nutrition; Australian, New Zealand, South African and South American wools, carpet wools, skin wools; sheep shearing, wool classing and wool marketing; wool wastes, mungo and shoddy; animal hairs—mohair, alpaca, vicuna, camel hair, cashmere and minor hairs.

Other natural fibres. The structure, growth, geographical distribution, properties and uses of American, Egyptian, Sea Island, Indian, Brazilian, Peruvian, East African and West African cottons; cotton grading and marketing. The cultivation, grading, properties and uses of flax and other bast, jute and leaf fibres. The cultivation, grading and marketing of silk, wild silks and silk waste. The production, properties and uses of asbestos.

Man-made fibres. The production, properties and uses of viscose, cellulose acetate and protein rayons, nylon, Terylene, Orlon, Acrilan and other man-made fibres. General survey of the physical properties of natural and man-made fibres including dimensions, density, moisture relations, mechanical and electrical properties and thermal behaviour. The identification of fibres and the analysis of fibre blends.

TEXTILE PHYSICS 1

First, 2nd and 3rd years; Tuesday 4 to 5, and practical classes Friday 2 to 4 for students studying for the degree of Bachelor of Science or Bachelor of Science with Honours.

General physical properties of fibres. Introduction to fibre structure. Physical methods of determining fibre structure; X-rays, optics, electron microscope, infra-red absorption.

TEXTILE PHYSICS 2

Third and 4th years; Saturday 10 to 11 for students studying for the degree of Bachelor of Science or Bachelor of Science with Honours.

Detailed discussions of the structure of the more important natural and man-made fibres, with emphasis on the results obtained by physical methods of investigation; correlation of structure with physical properties.

TEXTILE PHYSICS 1A

First year; Friday 9 to 10 for students studying for the diploma in textile industries unless specially exempted.

An introduction to Textile physics 2A.

TEXTILE PHYSICS 2A

Third year; Monday 2 to 3 for students studying for the diploma in textile industries.

Heat. Explanation in molecular terms of temperature, sensible heat, latent heat, gas pressures, vapour pressure, saturated vapours; humidity and hygrometry. Light. Light as a wave motion. Simple cases of interference and diffraction. Polarised light. Double refraction and birefringence of fibres.

TEXTILE PHYSICS 3A

Third year; Wednesday 9 to 10.

Electricity and magnetism. Magnetic effects of currents. Motion of electron in electric and magnetic fields. X-rays. Electron microscope. The X-ray and electron microscopic interpretation of the molecular structure of fibres and of their properties.

TEXTILE CHEMISTRY 1

First year; Thursday 12 to 1, and practical classes Friday 10 to 12 for students studying for the degree of Bachelor of Science or Bachelor of Science with Honours.

General survey of the chemical composition, structure and reactivity of the chief natural and man-made fibres.

TEXTILE CHEMISTRY 2

Second and 3rd years; Tuesday 9 to 10 and practical classes Friday 2 to 4 for students studying for the degree of Bachelor of Science or Bachelor of Science with Honours.

Detailed study of the methods used in producing man-made fibres by wet-spinning (viscose, protein and alginate rayons), solvent-spinning (cellulose acetate and Orlon), and melt-spinning (nylon and Terylene) processes. The production of staple fibre.

Types of polymer; distinction between resins, rubbers, plastics and fibres. Mechanism of addition (free radical) polymerisation. Co-polymerisation. Methods of manufacture of vinyl polymers. Emulsion polymerisation. Condensation polymerisation—formation of nylon, Terylene, ureadhyde resins, silicones, etc. Degradation of polymers.

TEXTILE CHEMISTRY 3

Third year; Monday 12 to 1, Tuesday 9 to 10 and practical classes Monday 10 to 12 for students studying for the degree of Bachelor of Science or Bachelor of Science with Honours.

Wool Division. The chemical interpretation of the molecular structure and properties of animal fibres, and its application to the processes of scouring, carbonising, yarn production, humidification, conditioning, milling, chlorination, bleaching, crabbing and blowing, and dyeing.

The chemistry of oils, fats and waxes; principles of wool oiling, including a general study of lubrication; and the testing of wool oils and creams.

The chemistry of soap making; analysis of soaps; emulsions and emulsification; recovery of by-products from effluents; the hardness of water; water-softening processes; composition and properties of wetting agents and detergents.

Sizing, waterproofing and mothproofing. Chemical methods of estimating fibre damage and their use in controlling finishing and other processes.

Man-Made Fibres Division. Physical chemistry of high polymers. Kinetics of vinyl polymerisation and co-polymerisation. Condensation polymerisation; kinetics and equilibria. Measurement of size and shape of polymer molecules by osmometry, viscometry, light-scattering and other techniques. Correlation of physical properties of polymers with their chemical structure.

TEXTILE CHEMISTRY 1A

First year; Monday 12 to 1 for students studying for the diploma in textile industries unless specially exempted.

An introduction to the more advanced courses in Textile chemistry.

WOOLLEN YARN PRODUCTION 1

First and 2nd years; Monday 2 to 3.

Principles of yarn manufacturing and comparison of the various systems.

Detailed consideration of the theory and practice of scouring, drying, carbonising, rag-pulling, garnetting, blending and oiling.

WOOLLEN YARN PRODUCTION 2

Second, 3rd and 4th years; Wednesday 9 to 10.

Principles and practice of carding, mule spinning and ring spinning. Twisting of ordinary and fancy yarns.

WOOLLEN YARN PRODUCTION 3

Third and 4th years; Friday 2 to 3.

Problems encountered in the manufacture of woollen yarns. Composition of plants suitable for the manufacture of various types of woollen yarn. Processing of blends of wool and other fibres on the woollen system. Detection and prevention of faults. Modern developments. Applications of research to practical yarn production.

WORSTED YARN PRODUCTION 1 ENGLISH AND CONTINENTAL SYSTEMS

First and 2nd years; Thursday 2 to 3.

Principles of yarn manufacture and comparison of the various systems. Detailed consideration of the theory and practice of carding, gilling, backwashing, oiling, combing, and top making. Manufacture of coloured yarns.

WORSTED YARN PRODUCTION 2

Second and 3rd years; Friday 9 to 10.

Principles and practice of open, cone, continental, Anglo-continental, pin, and Raper drafting processes. Worsted spinning; flyer, ring, cap, mule and Am-bler superdraft. Yarn twisting, reeling and scouring.

WORSTED YARN PRODUCTION 3

Third and 4th years; Friday 2 to 3.

Problems encountered in the manufacture of worsted yarns. Composition of plants suitable for the manufacture of various types of worsted yarn. Processing of blends of wool and other fibres on the worsted system. Detection and prevention of faults. Modern developments. Applications of research to practical yarn production.

EXPERIMENTAL WORK

WOOLLEN AND WORSTED YARN PRODUCTION

Woollen section. Experiments in scouring, blending, rag-pulling, carding, spinning and twisting.

Worsted section. Experiments in carding, gilling, combing, drawing, spinning and twisting.

STAPLE FIBRE YARN MANUFACTURE 1

First and 2nd years; Monday and Thursday 2 to 3.

Survey of systems for processing wool, cotton, silk, flax, jute, asbestos and other fibres. Introduction to spinning on the cotton system. Uptwisting of continuous filament yarns and silk throwing. Survey of the processes used in the production of woollen and worsted yarns.

STAPLE FIBRE YARN MANUFACTURE 2

Second, 3rd and 4th years; Wednesday and Friday 9 to 10.

Detailed study of blowroom machinery; carding, combing, drawing, spinning and twisting on the cotton system, with special reference to man-made fibres; uptwisting of continuous filament yarns; tow-to-yarn processes. Spinning of man-made fibres on the woollen and worsted systems.

STAPLE FIBRE YARN MANUFACTURE 3

Third and 4th years; Friday 2 to 3.

Problems involved in the manufacture of cotton and staple fibre yarns. Bulked yarns. Application of research to practical yarn production and development of machinery.

EXPERIMENTAL WORK

STAPLE FIBRE YARN MANUFACTURE

Experiments in scutching, carding, combing, drawing, spinning and twisting on the cotton system. Uptwisting and rewinding of continuous filament yarn.

During the first year students will attend some practical classes in the woollen and worsted sections as well as in the cotton section.

TEXTILE ENGINEERING 1

Third and 4th years; Tuesday 12 to 1.

Theories and measurement of friction of fibres and of drafting forces in drawing and spinning. Mathematical treatment of spinning processes and theoretical derivation of optimum spinning conditions. Special problems of high draft processes. Theory of yarn tension and balloon size in spinning. Theory of yarn arrangement in cloth. Principles of heat and mass transfer involved in finishing.

TEXTILE ENGINEERING 2

Third and 4th years; Saturday 11 to 12.

A survey of national energy resources and future prospects. The forms in which energy is required for industrial operations, and their generation from primary fuels. Steam-raising as the basic energy conversion and the use of steam in secondary conversions to produce mechanical and electrical energy. Tertiary conversion of electricity into mechanical power, heat and light. Economic aspects of these conversions and their industrial significance. The use of heat pumps and other devices for the utilisation of waste heat.

Detailed study of the utilisation of energy supplies; efficient distribution and use of heat, mechanical power, electricity and light in factories, and the air-conditioning, ventilation and heating of factory buildings. Statutory requirements in these respects.

TEXTILE ENGINEERING 2A

Third year; Tuesday 11 to 12 and Friday 12 to 1 for students studying for the diploma in textile industries.

Fuel combustion efficiency in boiler plants. Maintenance and efficiency of steam boilers. Properties of steam. Efficient operation of steam engines and other prime movers. Indicator diagrams. Transmission of power by belts, V-ropes, gearing, etc. Maintenance and efficiency of power transmission systems. Basic principles of a.c. motors with special reference to 3-phase induction motors. Application of electric motors to machine drives. Factory lighting, heating and air conditioning. Statutory requirements.

TEXTILE ENGINEERING 3

Third and 4th years; Tuesday 2 to 3.

Theory of errors and precision of measurements. Theory of automatic control. Practice of automatic control; controlling units, regulating units, sensing units.

TEXTILE ENGINEERING 4

Third year; Friday 3 to 4.

An introductory course for Textile engineering 5, covering the properties and uses of metallic and non-metallic materials used in textile machinery and its lubrication.

TEXTILE ENGINEERING 5

Fourth year; Tuesday 3 to 5 and Friday 4 to 5.

A practical course in the design of textile machinery.

CLOTH STRUCTURE 1

First, 2nd and 3rd years; Tuesday 2 to 3 and Saturday 11 to 12.

Single cloth weaves; plain, cords, mats, twills, fancy diagonals, sateens and sateen derivatives, diced weaves, whipcords, cavalry twills, corkscrews, crepes. Standard colour and weave effects. Drafting and pegging. Stripes and drafted styles. Weave checks. Diamonds and diapers. Special methods of weave construction; combining weaves thread-and-thread and/or pick-and-pick, transposing ends and/or picks, Reiser crepes, inserting one weave upon another.

Honeycombs, Grecians, Brightons, and sponge-weave structures. Spot effects. Figuring on dobby looms; combining two or more weave effects or two or more colour-and-weave effects. Backing with warp and/or weft. Weft-reversible structures. Self-stitched double cloths. Inter-changing double cloths. Pattern range making.

CLOTH STRUCTURE 2

Second, 3rd and 4th years; Friday 3 to 4.

Bedford cords. Welts and piqués. Distorted thread effects. Hung-backs. Centre-warp or weft stitched double cloths. Introducing wadding in backed or double cloths. Special effects in double cloth and inter-changing double cloth structures. Double plains. Indent twills. Cut double cloths. Treble cloths. Multiple warp and weft figured styles.

In addition to the systematic point-paper development of the above structures, their colouring, drafting and pegging, and modification to suit even-pick looms will be given. The counts/sett relationship for perfect structure and the utilisation of counts and/or sett other than these for novelty effects will also be discussed.

COMPLEX TEXTILES

Third and 4th years; Thursday 3 to 5.

Cloth structures including carpets, velvets, brocades, tapestry and gauze.

EXPERIMENTAL WORK

HANDLOOM WEAVING

First year: Standard single weave structures, simple figured styles and colour-and-weave effects. Random ranges.

Second year: Advanced weave structures, including compound fabrics, gauze and jacquard figured styles. Range weaving. Production of original and commercial designs and fabrics.

Third year: Original work for theses and weaving competitions.

LOOM STUDY 1

First and 2nd years; Monday 9 to 10.

Processes preparatory to weaving—winding of warp and weft yarns; warping; sizing; dressing; healding. Fundamentals of weaving. Features of hand looms. Principles of shedding, picking, beating-up, warp let-off, cloth take-up, box, warp protector, weft-stop, warp-stop and shuttle-checking motions. Details of these mechanisms as applied to tappet and simple dobby power looms. General principles of timing and tuning of power looms.

LOOM STUDY 2

Second, 3rd and 4th years; Saturday 9 to 10.

Mechanisms of the more complex dobby looms, their settings and tuning. Box and picking plans. Jacquard shedding mechanisms. Principles and varieties of harness mountings. Calculations for harness cast-out, variations of design repeat and fabric setting. Card cutting and lacing. Automatic weft supply; bobbin and shuttle-changing mechanisms. Shuttleless looms. Modern developments in weaving methods and machinery. Application of research to weaving problems.

EXPERIMENTAL WORK
POWERLOOM WEAVING

First year: Practical winding, warping and healding. Weaving of simple fabrics on tappet and dobby looms. Simple adjustments and repairs to tappet and dobby looms.

Second year: Weaving of more complicated fabric structures. Instruction on automatic looms and jacquard looms. Card cutting and lacing. Experimental work to study the effect on loom efficiency of various settings and adjustments.

KNITTING 1

Second and 3rd years.; Thursday 11 to 12.

Fundamentals of warp and weft knitting; nomenclature; loop size and spirality. Action of knitting elements, take-up mechanisms and feeds. Alterations to produce various structures in warp and weft knitting. Garment shaping.

KNITTING 1A

Second year; Friday 12 to 1 for students studying for the diploma in textile industries.

A more elementary treatment of the subjects of Knitting 1.

KNITTING 2

Fourth year; Thursday 3 to 5.

Knitted structures: theoretical examination of the shape and length of knitted loops; warps and weft knitted structures including elementary analysis. Detailed study of the operation and construction of selected knitting machines.

TEXTILE CALCULATIONS 1A

First year; Friday 12 to 1 for students studying for the diploma in textile industries, unless specially exempted.

An introduction to Textile calculations 1B.

TEXTILE CALCULATIONS 1B

Second year; Friday 2 to 3.

Units and conversion factors. Woollen, worsted and cotton counts of single and doubled yarns, denier and other direct count systems. Effect of grease content and regain on count. Wool quality and worsted count. Warp, weft and cloth relationships, e.g. weight as a function of weave, firmness, sett and count. Reed and heald numbering, casting out. Elementary cloth setting theory. Knitting gauge. Output of carding engines. Yield of combs. Gear ratios, draft and twist in drawing and spinning. Blends in yarn and cloth. Wage rates and efficiency.

TEXTILE CALCULATIONS 1

Second and 3rd years; Tuesday 11 to 12 for degree students.

A more advanced treatment of the subjects of Textile calculations 1B, including the setting theories of Murphy, Ashenhurst, Armitage, Law, Brierley, Peirce, and recent work in the department.

COURSES

CLOTH ANALYSIS 1

First, 2nd and 3rd years; Saturday 9 to 10 and practical work Monday or Thursday 3 to 5.

The appraisal and analysis of all types of tappet and dobby fabrics, including plains, twills, crepes, suitings, linings, furnishings, coatings, novelties, colour-and-weave effects and dress cloths. The preparation of suitable particulars for the reproduction of fabrics, and the modification of such data to meet the requirements of the consumer, manufacturer or designer.

CLOTH ANALYSIS 2

Second, 3rd and 4th years; Wednesday 12 to 1 and practical work Tuesday 2 to 3 and 4 to 5.

The analysis and reproduction of jacquard fabrics and compound structures made from all types of yarn; backed, double, and inter-changed fabrics; extra warp and weft effects; multiple warp and weft figured cloths; novelty fabrics; moquettes, carpets and imitation furs.

PRINCIPLES OF PATTERN DESIGN

First year: Classes Wednesday or Friday 10 to 12.

Second year: Classes Thursday 10 to 12.

Third year: Classes Monday 10 to 12.

Experiments in different media to produce stripe, check and all-over repeating patterns. The value of proportion, rhythm, texture, colour and tone in the composition of designs. Traditional and modern treatments of the designer's subject matter. The historical developments of pattern in textiles and allied subjects, and their influence on present-day textiles. Further developments in designing patterns to be produced on tappet, dobby and jacquard looms, taking into consideration different types of yarn and fabric structure for woven textiles.

COLOUR STUDY 1

First, 2nd and 3rd years; Wednesday 9 to 10.

Colour theories and the attributes of colours; contrast and analogy; colour blending; application of colour to woven design; special colour and weave effects.

COLOUR STUDY 2

Second and 3rd years; Monday 2 to 3.

The economical introduction of colour into woven fabrics; the colour limitations of woven design; the introduction of colour into stripes, checks and figured fabrics, the colouring of special woven styles; the colouring of double cloths, gauzes and plushes.

DYEING IT

Third and 4th years; Thursday 9 to 10 and practical dyeing *either* Wednesday 10 to 1 *or* Thursday 10 to 1 in the department of colour chemistry and dyeing.

The introduction of colour into textiles including dyeing, printing and mass-pigmentation. Classification of textile fibres and dyes. Colour perception, colour mixing and colour matching in theory and practice. Colour fastness—definition, specification and assessment, with particular reference to light and wet treatments. Dyes for wool—their application, fastness properties and uses, including acid dyes, premetallised dyes, mordant dyes and vat dyes. Dyes for cellulosic fibres including direct dyes, vat and solubilised vat dyes, azoic dyes, aniline black, reactive dyes, resin-bonded pigments. Dyes for secondary cellulose acetate, triacetate, polyamide, polyester and polyacrylonitrile fibres. The dyeing of fibre mixtures. Dyeing machinery. An introductory treatment of textile printing.

Practical work includes small-scale dyeing trials on wool, cotton, secondary cellulose acetate and the newer synthetic fibres.

CLOTH FINISHING 1

WOOL DIVISION

Second, 3rd and 4th years; Monday 9 to 10.

The objects of finishing; résumé of the operations used in the finishing of textile fabrics; principles and practice of the following processes: inspection; singeing; crabbing and other methods of setting; scouring; milling; hydro-extraction and tentering; raising; cropping; brushing and steaming; pressing. The dimensional stability of wool fabrics—London shrinking, sponging, and methods of relaxing cloth before tailoring.

CLOTH FINISHING 1

MAN-MADE FIBRES DIVISION

Second, 3rd and 4th years; Monday 4 to 5.

The principles and practice of finishing cotton, linen, jute, silk and man-made fibre fabrics; sizing in relation to finishing; singeing; setting man-made fibres by dry heat and by steam; de-sizing; kier boiling; scouring; de-gumming; bleaching (batch and continuous) of all types of fibre; drying; stentering; filling; calendaring; beeking and breaking.

CLOTH FINISHING 2

WOOL DIVISION

Third and 4th years; Thursday 2 to 3 for twelve weeks.

Chemical processes used in the finishing of fabrics containing wool—carbonising, shrink-resisting, rotproofing, mothproofing, waterproofing and bleaching. Routines adopted in the finishing of fabrics containing wool and other fibres. Recent research on the finishing of fabrics containing wool. The effect of finishing on the physical properties of wool fabrics. Layout of plant. Finishing costs. Method study in textile finishing.

CLOTH FINISHING 2

MAN-MADE FIBRES DIVISION

Third and 4th years; Thursday 2 to 3 for twelve weeks.

Chemical and special finishes, including mercerising, anti-crease, modern filling techniques, softening, stiffening, Sanforising, formaldehyde finishes, silk weighting, rotproofing, waterproofing, fireproofing, creping and the finishing of crepe fabrics, permanent finishes on cellulosic and other fibres, embossing, and parchmenting. Finishes involving the use of reagents such as cellulose ethers and isocyanates. Fabric coating. Special techniques adopted in the finishing of man-made fibres. The dimensional stability of textile fibres with special reference to the finishing of man-made fibres. Finishing of blended fabrics containing natural and man-made fibres. Layout of plant.

EXPERIMENTAL WORK—CLOTH FINISHING WOOL DIVISION

Monday 10 to 12 or Friday 11 to 1. Manipulation of the various machines used in the finishing of woollen and worsted cloths. Production of special finishes on the woollen and worsted fabrics. Finishing of fabrics containing mixtures of wool and other fibres.

EXPERIMENTAL WORK—CLOTH FINISHING MAN-MADE FIBRES DIVISION

Wednesday 10 to 12. Manipulation of the various machines used in the finishing of cotton and man-made fibre fabrics. Production of special finishes on cotton and man-made fibre fabrics. The evaluation of textile finishes.

During each course the finishing of various special cloths will be demonstrated, and students will be provided with patterns of the material at different stages of finishing.

TEXTILE TESTING 1A

Second year; Friday 4 to 5 for diploma students; Practical textile testing Thursday 3 to 5.

Atmospheric humidity; tests for moisture content of textile materials. Tests for count and twist of yarns, and the irregularity of yarns and rovings. Tensile testing on textile materials—a study of principles and practice. General properties of fabrics—weight, thickness, structure, drape, handle, porosity, and abrasion resistance. The air-permeability and water-resisting properties of fabrics. The assessment of damage in wool and cotton. Elementary statistical treatment of results and the use of quality control charts.

Laboratory experiments on measurement of the length and fineness of wool fibres; determination of count, twist, strength, extension and irregularity of yarns; tensile and bursting strength of cloth; abrasion resistance; thickness, crimp and other fabric properties. Identification and quantitative analysis of fibre mixtures.

PHYSICAL TESTING—METHODS

Second and 3rd years; Tuesday 3 to 4, for degree students.
As for Textile testing 1A with appropriate extensions.

TEXTILE INDUSTRIES

PHYSICAL TESTING—STATISTICS

Second and 3rd years; Thursday 9 to 10.

Frequency curves. The mean, median, mode, mean deviation, standard deviation, variance and standard error. Tests of significance for application to textile problems—students' t-test, chi-squared, correlation, curve-fitting.

STATISTICS AND TEXTILE TESTING

Second year; Tuesday 12 to 1 and 3 to 4, Thursday 12 to 1 and Friday 4 to 5, for students studying for the degree of Bachelor of Science in textile industries. Practical textile testing Thursday 2 to 5.

The course comprises two lectures per week in the mathematics department and two lectures and three hours' practical work per week in the department of textile industries. The lectures in the department of textile industries cover the subjects described under Textile testing 1A, with appropriate extensions and the application of statistical methods to testing problems, including the use of frequency curves in textile practice and research; the mean, median, mode, mean deviation, standard deviation, variance, standard error and higher moments, as measures of the distribution, skewness and probability; tests of significance for application to textile problems—students' t-test, chi-squared, variance ratio, correlation, curve-fitting, and analysis of variance. Application of statistical techniques to problems of yarn variability, fibre crimp, quality control, and analysis of data.

MILL MANAGEMENT

Third and 4th years; Monday 3 to 4.

Factory organisation—site, buildings, lay-out, choice of machinery and equipment. Scientific selection and training of operatives. Motion and time study. Incentives. Wage plans. Charts and other aids to production control. Legislation and industry. Cost accounting and control. Analysis of costing systems typical of the textile industry.

For courses in Industrial management see p. 398.

COLOUR CHEMISTRY AND DYEING

For the ordinary degree of Bachelor of Science, for the degree of Bachelor of Science with Honours in colour chemistry, the diploma in colour chemistry, and the diploma in dyeing

DYEING 1

Second year; Monday 11 to 12.

The classification of textile fibres and dyes. Colour perception, colour mixing and colour matching. Colour fastness—definition, specification and assessment. Classes of dyes and dyeing methods for colouring protein and cellulosic fibres.

Examination: 1 paper of 1½ hours in December and June.

COURSES

DYEING 2

Third year; Monday and Wednesday 12 to 1.

The chemistry and properties of organic high polymers; water and auxiliary products.

Examination: 1 paper of 1½ hours in December and 1 paper of 3 hours in June.

DYEING 3

Third year; Thursday 3.30 to 4.30 and Friday 11.30 to 12.30.

Classes of dyes and dyeing methods for colouring regenerated cellulose fibres, secondary cellulose acetate and cellulose triacetate, polyamide, polyester and polyacrylonitrile fibres, including mass-pigmentation. Continuous dyeing methods. Dyeing machinery. Dyeing of fibre mixtures. Textile printing. Theory of dyeing. Colour and colour measurement.

The Dyeing 1 and 3 lecture courses form a continuous main course in the more practical aspects of textile coloration.

Examination: 1 paper of 1½ hours in December and 1 paper of 3 hours in June.

COLOUR CHEMISTRY 4

Third year; first term, Tuesday 2 to 3 and Friday 9 to 10; 2nd term, Tuesday 2 to 3.

The chemistry of intermediates and dyes.

Examination: 1 paper of 3 hours in June.

LABORATORY COURSE IN DYEING 1

Second year; seven hours a week at times to be arranged.

Small scale dyeing experiments in which different classes of dyes are applied to the various types of textile fibres.

LABORATORY COURSE IN DYEING 2

Third year; twenty-five hours a week at times to be arranged.

[First term and part of 3rd term only for candidates for the degree with Honours or for the diploma in colour chemistry.]

Experimental dyeing laboratory work including colour matching, identification of textile fibres and dyes in textile fibres. Examination and evaluation of commercial dyes, and technical analysis. Practical dyehouse work including dyeing of materials in various types of machines. Textile printing.

Examination: 3 days practical examinations in June.

For the degree of Bachelor of Science with Honours in colour chemistry and for the diploma in colour chemistry

COLOUR CHEMISTRY 5

Fourth year; Tuesday and Thursday 11 to 12.

Chemistry of anthraquinone dyes, indigoid and thioindigoid dyes, solubilized vat dyes, sulphur dyes and phthalocyanines.

COLOUR CHEMISTRY 6

Fourth year; Monday 2 to 3.

Chemistry of azo dyes. Metal-containing dyes and pigments. Relations between physical properties and chemical constitution of dyes.

COLOUR CHEMISTRY

COLOUR CHEMISTRY 7

Fourth year; Thursday 2 to 3.

Chemistry of the polymethine, azine and dioxazine dyes and dyes of natural origin.

COLOUR CHEMISTRY 8

Fourth year; Friday 2 to 3.

Chemistry of pigments considered mainly from the physical chemistry standpoint.

Examination: 1 paper of 3 hours covering Colour chemistry 5, 6, 7 and 8 in December. Three papers of 3 hours each on the chemistry of intermediates, dyes and pigments in June.

LABORATORY COURSE IN COLOUR CHEMISTRY 4

Third year (2nd term and part of 3rd term); twenty-five hours a week at times to be arranged.

Quantitative analyses of raw materials and intermediates. Technical methods of analysis. Preparation of intermediates and dyes by technical methods, etc.

LABORATORY COURSE IN COLOUR CHEMISTRY 5, 6 AND 7

Fourth year (one term); thirty hours a week at times to be arranged.

Preparation of several dyes and modern methods of analysis and purification.

LABORATORY COURSE IN COLOUR CHEMISTRY 8

Fourth year (one term); thirty hours a week at times to be arranged.

Preparation and testing of pigments. Instrumental methods of colour measurement.

Examination: 4 days practical examinations in June.

For the ordinary degree of Bachelor of Science, the degree of Bachelor of Science with Honours, the degree of Bachelor of Arts and the postgraduate and non-graduate diplomas in textile industries.

DYEING 1T

Third or 4th years; Thursday 9 to 10.

The classification of textile fibres and dyes. Mass-pigmentation. Colour perception, colour mixing and colour matching in theory and practice. Colour fastness—definition, specification and assessment. Dyeing of protein, cellulosic and man-made fibres. Dyeing of fibre mixtures. Dyeing machinery. Principles of textile printing.

Examination: 1 paper of 1 hour in December and (for diploma students only) 1 paper of 1½ hours in June.

COURSES

LEATHER INDUSTRIES

For the ordinary degree of Bachelor of Science, for the degree of Bachelor of Science with Honours in the chemistry of leather manufacture, and for the diploma in leather manufacture.

TECHNOLOGY OF LEATHER MANUFACTURE L₁

First year; Monday, Wednesday and Friday 9 to 10, followed by $\frac{1}{4}$ hour demonstration of the manufacture of various leathers.

Raw materials, pretanning processes, tanning processes.

Examination: 1 paper.

TECHNOLOGY OF LEATHER MANUFACTURE L₂

Second year; Tuesday and Thursday 11 to 12, first term, Saturday 11 to 12, second and third terms, Friday 2 to 3.

Post-tanning processes with special reference to dyeing and finishing, use problems, the work of the tannery laboratory.

Examination: 1 paper.

ANALYTICAL CHEMISTRY OF LEATHER MANUFACTURE L₃

Third year; Monday 10 to 11, Tuesday and Thursday 11 to 12.

Part 1—Analytical chemistry of leather manufacture.

Part 2—Analytical chemistry of leather research.

Examination: Part 1—1 paper. Part 2—1 paper.

PHYSICS AND CHEMISTRY OF LEATHER MANUFACTURE L₄

Second or 3rd year; Monday, Wednesday and Friday 9 to 10, tutorial Tuesday and Thursday 9.30 to 11.

Physics and chemistry of materials and processes used in leather making. Parts 1 and 2.

Examination: 1 paper.

MICROSCOPY IN LEATHER MANUFACTURE L₅

First or 3rd year; Monday 2 to 3, followed by practical 3 to 5.

Histology of hides and skins.

Examination: 1 paper.

PRINCIPLES AND METHODS OF LEATHER MANUFACTURE L₆

Third or 4th year; Monday and Friday 11 to 12, Thursday 2 to 3.

Study of modern methods of leather production.

Examination: 1 paper.

LEATHER INDUSTRIES LABORATORY WORK

Second, 3rd or 4th years; At times to be arranged.

Analysis of the materials used in a tannery and of the most important types of leather; colour measurements of finishes and leathers; fastness testing of finished leathers.

PRACTICAL LEATHER PHYSICS

Second, 3rd or 4th years; Wednesday 11 to 1.

Experimental determination of the mechanical and other physical properties of leather.

LEATHER INDUSTRIES

PRACTICAL LEATHER MANUFACTURE L8

Second, 3rd or 4th years: At times to be arranged.

Demonstrations of the processing of various types of leather in the experimental tannery; testing of dyes and finishes. Production of leathers by students.

For the degree of Bachelor of Science with Honours in the chemistry of leather manufacture and for the diploma in leather manufacture

ADVANCED PHYSICS AND CHEMISTRY OF LEATHER MANUFACTURE L7

Third or 4th year; Tuesday and Thursday 9 to 10, Tuesday, Wednesday, Thursday and Friday 10 to 11.

Fundamental physics and chemistry of materials and processes in leather manufacture. Parts 1 to 6.

Examination: 3 papers (1 only for diploma).

AGRICULTURE

AGRICULTURE 1

Second and 3rd years; At times to be arranged.

Outline and organisation of British agriculture. Elements of agronomy; husbandry practices for the main British crops. Methods of field investigation.

Examination: 1 paper.

AGRICULTURE 2

Second and 3rd years; At times to be arranged.

The place of livestock in British agriculture. Principles of breeding and animal production. Feeding and general management of all classes of farm livestock. Organisation of livestock enterprises.

Examination: 1 paper.

AGRICULTURE 3

Second and 3rd years; At times to be arranged.

Systems of farming. Farm layout and equipment. Farm machinery and implements. Forms of tenancy; legislation affecting landlord and tenant. Stocking and equipping farms; capital requirements. Management of farm labour. Marketing of stock and produce.

Examination: 1 paper.

AGRICULTURE 4

Fourth year; At times to be arranged.

Statistics and experimental methods in agricultural research. Farm and enterprise studies. New techniques in farming.

Examination: 1 paper.

COURSES

AGRICULTURE 5

Fourth year; At times to be arranged.

Advanced studies in *one* of the following:

(a) Agronomy and crop husbandry

(b) Animal husbandry

(c) Farm management.

Examination: 2 papers.

AGRICULTURAL BACTERIOLOGY

Second year; At times to be arranged.

A general introduction to bacterial morphology and metabolism; staining, selective media and methods of isolation of micro-organisms. The bacteriology of water, soil, silage and dairying. Immunity and disease.

Examination: 1 paper and a practical examination.

AGRICULTURAL BOTANY 1

Second year; At times to be arranged.

The morphology of British crop plants. Aspects of plant physiology of importance to agriculture. Grassland ecology.

Examination: 1 paper and a practical examination.

AGRICULTURAL BOTANY 2

Third year; At times to be arranged.

The common diseases of British crops and their control. Plant breeding and crop improvement. Weeds, their biology and eradication.

Examination: 1 paper and a practical examination.

AGRICULTURAL CHEMISTRY 1

Third year; At times to be arranged.

As for Agricultural chemistry G1.

Examination: 1 paper and a practical examination.

AGRICULTURAL CHEMISTRY 2

Second year; At times to be arranged.

As for Agricultural chemistry G2.

Examination: 1 paper and a practical examination.

AGRICULTURAL ECONOMICS 1

Second year; At times to be arranged.

Development of farming from manorial time to the present day. Comparative agriculture. Application of economic theory to agriculture.

AGRICULTURAL ECONOMICS 2

Third year; At times to be arranged.

Farm management economics. Marketing.

Examination: 2 papers (covering 1 and 2) and an oral examination.

AGRICULTURE

AGRICULTURAL ZOOLOGY

Second year; At times to be arranged.

An introduction to entomology and helminthology. Insect and other pests of crops. External and internal parasites of domestic animals. The principles of pest control.

Examination: 1 paper and a practical examination.

VETERINARY SCIENCE

Second year; At times to be arranged.

An introduction to the anatomy and physiology of farm animals including the practical applications of physiological research. Pathological processes in farm animals, the recognition of health and a consideration of common diseases and their control by eradication or prevention.

Examination: 1 paper and a practical examination.

For the degree of Bachelor of Science with Honours in agricultural botany

AGRICULTURAL BOTANY G₁

At times to be arranged.

The taxonomy and comparative morphology of arable and herbage plants. Seeds and seed testing. The physiology of crop plants in relation to environmental factors. Plant ecology with particular reference to grassland associations.

Examination: 1 paper and a practical examination.

[This course is given in alternate years.]

AGRICULTURAL BOTANY G₂

At times to be arranged.

An introduction to plant pathology; the more important British diseases; their incidence and control. Plant breeding and crop improvement. The biology and control of weeds. The microscopic examination of feeding stuffs.

Examination: 1 paper and a practical examination.

[This course is given in alternate years.]

For the degree of Bachelor of Science with Honours in agricultural chemistry

AGRICULTURAL CHEMISTRY G₁

Second year; At times to be arranged.

The chemistry and physics of soil and soil material. The formation, fertility and deterioration of soils. Soil classification and mapping. The chemistry of fertilisers and manures.

Examination: 1 paper and a practical examination.

AGRICULTURAL CHEMISTRY G₂

Third year; At times to be arranged.

The chemistry of the animal and its food. The processes of nutrition. The evaluation of foods and determination of nutritive requirements. The chemistry of milk and dairy products.

Examination: 1 paper and a practical examination.

COURSES

For the degree of Bachelor of Science with Honours in the agricultural sciences

PRINCIPLES OF AGRICULTURE

First year; At times to be arranged.

Outline of history of agriculture. World food requirements, production and marketing. British farming systems. Origin and conservation of soils; soil fertility. Crop and grass production. Livestock breeding, improvement and production. Farm management.

Examination: 1 paper.

AGRICULTURAL BACTERIOLOGY G

Third year; At times to be arranged.

The distribution and role of bacteria in the soil. Soil microbiological equilibrium. A study of the bacteriology of milk and dairy products. Bacteria causing diseases of the udder. Other milk-borne pathogens. The bacteriology of water, sewage, silage and air. Bacteria and animal nutrition. Classification of organisms commonly occurring in the above environments.

Examination: 1 paper and 2 practical examinations.

AGRICULTURAL BACTERIOLOGY (ADVANCED)

Fourth year; At times to be arranged.

Recent developments in and advanced aspects of agricultural bacteriology.

Examination: 3 papers and 2 practical examinations.

AGRICULTURAL BOTANY (ADVANCED)

Fourth year; At times to be arranged.

Advanced work in general agricultural botany and plant pathology; selected aspects of crop husbandry; statistical methods and design of experiments; special courses by arrangement with the department of botany.

Examination: 4 papers and 2 practical examinations.

AGRICULTURAL CHEMISTRY (ADVANCED)

Fourth year; At times to be arranged.

Modern developments and methods of research in the chemistry of soils, fertilisers, crops and animal nutrition; dairy chemistry; chemistry of insecticides, fungicides and herbicides.

Examination: 3 papers and a practical examination of 2 days.

FARM ORGANISATION AND MANAGEMENT

Third year; At times to be arranged.

Systems of farming. Factors influencing the value of a farm. Forms of tenancy.

Farm labour and its management.

Examination: 1 paper.

AGRICULTURE

AGRICULTURAL ECONOMICS (ADVANCED)

Fourth year; At times to be arranged.

Production and distribution of agricultural income. Economics of farm management. Land economics. Advanced marketing. Rural social organisation.

Examination: 3 papers and a dissertation.

AGRICULTURAL ZOOLOGY G

Third year; At times to be arranged.

Bionomics of important agricultural and horticultural pests and parasites. Ecological factors in relation to pest and parasite problems. Theory and practice of control.

Examination: 1 paper and a practical examination.

AGRICULTURAL ZOOLOGY (ADVANCED)

Fourth year; At times to be arranged.

An advanced study of pest and parasite problems in relation to British agriculture and horticulture with a consideration of recent developments and methods of investigation.

Examination: 3 papers, 2 practical examinations and a dissertation.

For the postgraduate diplomas

FARM MANAGEMENT

The principles of husbandry and agricultural economics in the study of farm organization and management. Assessment of efficiency of farming enterprises and of different systems of farming.

Examination: 3 papers, an oral examination and presentation of a thesis.

AGRICULTURAL BACTERIOLOGY

Advanced aspects of bacterial chemistry, morphology, physiology and classification. Detailed treatment of the bacteriology of air, soil, water, milk and dairy products. Immunity and disease.

Examination: 4 papers and a practical examination.

AGRICULTURAL BOTANY

British crop plants, their morphology, physiology and ecology in relation to farm practice. Plant breeding and crop improvement. The principal diseases of economic plants. Experimental technique.

Examination: 3 papers and a practical examination of 6 hours.

PLANT PATHOLOGY

Disease in plants; identification and culture of pathogens; host-parasite relationships. Virus and nutritional diseases. The incidence and economic importance of diseases in the field; disease measurement. Experimental technique.

Examination: 3 papers and a practical examination of 6 hours.

COURSES

AGRICULTURAL CHEMISTRY

Advanced and recent work on the chemistry of soils, fertilisers, insecticides, fungicides, feeding stuffs, animal nutrition, milk and dairy products.

Examination: 3 papers and a practical examination of 2 days.

AGRICULTURAL ECONOMICS

The economics of agricultural production and distribution. The economics of farm organisation and management; marketing of agricultural produce; land economics; rural social organisation and statistics.

Examination: 3 papers and presentation of a thesis.

AGRICULTURAL ZOOLOGY

The identification, bionomics and control of the more important pests of agricultural and horticultural crops. Factors influencing the origin, spread and abundance of crop pests. Principles of pest control.

Examination: 3 papers and a practical examination.

THE FACULTY OF MEDICINE

ORDINANCE VI

DEGREES IN MEDICINE AND SURGERY

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.)
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-two years on the day of graduation, and that they have attended courses of instruction approved by the University extending over not less than four years and three months, 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. The first examination shall consist of three subjects:

Chemistry, physics and zoology.

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 two parts:

Part 1 Organic and physical chemistry

Part 2 Anatomy

Physiology and 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 individual subjects of part 2 of the examination.

DEGREES

11. (a) The third examination shall consist of two parts:

Part 1 Pathology and bacteriology

Part 2 Pharmacology.

- (b) The fourth examination shall consist of two subjects:

Forensic medicine

Public health.

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. The names of candidates who have satisfied the examiners in the third and fourth examinations will be published in alphabetical order. Distinction may be awarded in the separate parts of the third examination or in the fourth examination.

14. The final examination shall consist of three subjects:

Medicine, surgery and obstetrics and gynaecology.

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 first-class Honours,

or (ii) the degrees of Bachelor of Medicine and Bachelor of Surgery with second-class Honours,

or (iii) 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 page 552.]

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 page 555]

DOCTOR OF PHILOSOPHY

THE DEGREE OF DOCTOR OF PHILOSOPHY

[The degree of Doctor of Philosophy is governed by ordinance II, articles 50 to 52 and relevant regulations which are set out on pages 279 and 289.]

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 specially 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 556.]

REGULATIONS

FOR DEGREES, DIPLOMAS AND CERTIFICATES IN MEDICINE AND SURGERY AND NURSING

THE DEGREES OF BACHELOR OF MEDICINE AND BACHELOR OF SURGERY

1. Unless specially exempted by the Senate, candidates for the degrees of Bachelor of Medicine and Bachelor of Surgery are required to present evidence of having passed in mathematics* at the ordinary level in a General Certificate of Education examination, or of possessing an approved equivalent qualification.

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. In the sixth year clinical work will suffice. 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 have failed (a) in any subject of the first examination or (b) in anatomy or physiology and biochemistry of part 2 of the second examination or (c) in any part of the third examination or (d) 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) Zoology: lectures and laboratory work for at least three terms
- (d) Auxiliary mathematics 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 (c) 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.

* Although an ordinary syllabus and an alternative ordinary syllabus are equally acceptable for the purpose of this requirement, it will be advantageous to candidates in their medical course to have followed an alternative ordinary syllabus.

8. Exemptions may be granted as follows:

- (a) Candidates who have passed in chemistry, physics 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

provided always that a candidate who is not granted exemption from all the subjects of the first examination must in the first year take three courses, two of which must be courses for the degrees of Bachelor of Medicine and Bachelor of Surgery.

9. 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.

10. Candidates for the second examination are required to have attended courses of instruction in:

Organic and physical chemistry for at least two terms and including laboratory instruction

Anatomy including embryology and histology and the dissection of the human body for a period extending over at least five terms

Physiology and biochemistry for at least five terms and including laboratory instruction.

11. Part 1 of the second examination will be held in April.

Candidates who fail to satisfy the examiners may be permitted to present themselves for re-examination in September.*

12. Part 2 of the second examination will be held in March. Candidates must have passed part 1 of the second examination before they can be admitted to part 2.

Candidates who fail to satisfy the examiners may be permitted to present themselves for re-examination in September.

13. Candidates will not be allowed to proceed to the second term of clinical studies until they have passed the whole of the second examination.

14. 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.

* Candidates who fail to satisfy the examiners in part 1 of the second examination at the second attempt may be required either (a) to repeat the year or (b) to withdraw from the University. Normally they will not be allowed to continue their studies in the School of Medicine as candidates for another registrable qualification.

15. The third examination will be held in December, March and June*, five terms after commencing the study of pharmacology, pathology and bacteriology.

Candidates for part 1 of the third examination are required to have attended approved courses in pathology and bacteriology including laboratory work for a period extending over not less than five terms.

16. Candidates for part 2 of the third examination are required to have attended approved courses in pharmacology and pharmacy including laboratory work for a period extending over at least five terms.

17. The subjects of the third examination shall be:

Part 1 Pathology and bacteriology [candidates will be examined practically in bacteriology, pathological anatomy and histology]

Part 2 Pharmacology.

18. The fourth examination shall be held in June and December. 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 and toxicology extending over a period of not less than three terms; and

(b) approved courses in public health extending over a period of not less than four terms.

19. The subjects of the fourth examination shall be:

Forensic medicine [including clinical toxicology] and
Public health.

20. 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.

21. The final examination will be held in December and June and may not be taken until thirty-three months of clinical study have been completed.

22. Candidates for the final examination must have attended approved courses in the subjects in 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 six months and of clerk in the department of pædiatrics for three months; and

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;

* Parts 1 and 2 in December, part 1 (re-examination) in March, part 2 (re-examination) in June.

- (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 six 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 during at least two months approved clinical instruction in either a general or a special hospital.

23. 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 part of the examination.

24. In determining the award of Honours to candidates their performance in part 2 of the second examination and in the third, fourth and final examinations will be considered.

25. 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 SURGERY

26. 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

* Before making application to the Board of the Faculty of Medicine, such graduates are advised to consult the professor of surgery.

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.

27. 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.

28. 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.

29. 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.

30. 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 £25.

THE DEGREE OF DOCTOR OF MEDICINE

31. 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.

32. 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.

33. 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.

34. 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.

35. The oral examination will in general be confined to the subject matter of the thesis or published work of the candidate.

36. Applications [see regulation 32] 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 £25.

37. Candidates will be informed 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 weeks' notice of the date of the examination.

THE DIPLOMA IN PUBLIC HEALTH

38. The course for the diploma in public health shall extend over a period of not less than eighteen months of part-time study. The course will begin in the October of alternate years and the examination will be held in March at the end of the course and on one further occasion during the year.

39. A candidate must hold a registrable medical qualification and the part-time employment in which he proposes to engage during the period covered by the course must be approved by the University.

40. 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) The administration, organisation and management of medical departments and institutions.
- (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) Community aspects of disease. Administrative measures in relation to communicable and other diseases.
- (i) Information relating to public health; nature, sources and numerical presentation. The presentation of statistical data in memoranda and scientific articles.
- (j) The mental health services; social consequences of mental illness; mental deficiency.
- (k) Methods of educating the public in the promotion and maintenance of health.
- (l) After-care and rehabilitation.
- (m) International health.

41. Every candidate shall produce evidence that he has

- (a) resided and received instruction for four weeks in an approved hospital for infectious diseases

- or (b) attended satisfactorily and regularly and received instruction at such an approved hospital for three months
- or (c) served for not less than six months as a resident medical officer in such an approved hospital.

42. (a) Except as provided in 42 (b) below, a candidate must show to the satisfaction of the University

- (i) that he has held a whole-time appointment for not less than twelve months in the health department of a local authority approved by the University, or
 - (ii) that he is holding a part-time appointment in such a department throughout any period during which he is receiving systematic instruction in the University, and is regularly supervised by appropriate officers of the authority;
- and that his duties under the terms of his appointment under (i) or (ii) were, or are, such as to enable him to acquire a knowledge of public health practice and administration.
- (b) A candidate who produces evidence to the satisfaction of the University that, by virtue of his holding or having held an appointment, or otherwise, he has obtained practical experience of health and welfare administration of a kind equivalent to that described in 42 (a) (i) or (ii) above may be exempted from the foregoing requirements.

43. No candidate 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.

44. The examination shall include:

Five written papers, a clinical examination in infectious diseases and an oral examination. In addition, each candidate must present a dissertation on an approved subject.

45. The diploma may be awarded with distinction to a candidate whose work is adjudged to be of outstanding merit.

46. 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.

THE DIPLOMA IN PSYCHOLOGICAL MEDICINE

47. The examination for the diploma is in two parts, consisting of written, oral, practical and clinical tests of the candidate's proficiency.

48. Before being admitted to the first part of the examination, candidates must produce evidence:

- (a) of having attended, after obtaining a registrable qualification, approved courses of instruction in the subjects of the examination over a period of one session (three terms) in the University
- (b) of having acted as an assistant medical officer, locum tenens, house physician, or resident or whole-time clinical clerk, at a mental hospital

or other institution approved by the University for this purpose, for a total period of not less than six months.

[The requirements of sub-paragraphs (a) and (b) above may be fulfilled concurrently.]

49. The subjects of study for the first part of the examination shall be:

- (a) Psychology and the elements of the social sciences
- (b) The anatomy, histology and embryology of the nervous system
- (c) The physiology and biochemistry of nervous activity.

50. The examination for the first part will be held in June and December, and will consist of a written paper and an oral examination in each of the above subjects. Candidates must present themselves for the whole of the first part of the examination at the same time.

51. 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:

- (a) He must show evidence of having completed not less than two and a half years in the special study of psychological medicine, including:
 - (i) Eighteen months of approved whole-time practice in mental hospitals or other institutions approved by the University where clinical instruction is given
 - (ii) One term of approved practice in an institution for the mentally deficient where clinical instruction is given
 - (iii) Three terms of approved practice in an out-patient or in-patient centre for the diagnosis and treatment of the psycho-neuroses and allied disorders where clinical instruction is given and in a centre for child guidance and child psychiatry where clinical instruction is given
 - (iv) One term of approved clinical instruction in clinical neurology.
 [The requirements of sub-paragraph (a) (ii), (iii) and (iv) may be complied with during the tenure of the appointment under sub-paragraph (a)(i).]
- (b) He must present evidence of having attended approved courses of instruction in the following subjects:
 - (i) General psychiatry
 - (ii) Neurology, including neuropathology
 - (iii) Mental deficiency
 - (vi) Psychopathology and psychotherapy
 - (v) Child psychiatry
 - (vi) Medico-legal psychiatry.

Courses of instruction may be taken concurrently with the tenure of clinical appointments.

52. Academic courses must normally be taken within the University. No course will be held unless at least six students have enrolled.

53. The second part of the examination to be held in June and December shall be in the subjects specified in regulation 51(b) and shall consist of two written papers, a clinical examination in neurology, a clinical examination in

psychiatry, and an oral examination. Candidates must present themselves for the whole of the second part of the examination at the same time.

54. The conditions of admission and requirements 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 always that six months are spent in attendance upon prescribed courses within the University, and that no exemption will be granted from either part of the examination.

55. Application for admission to either course should be made by 15 July of the preceding session, and should be accompanied by a deposit of ten guineas. 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.

56. Entries for either part of the examination must be submitted upon the prescribed form not later than 1 May and 1 November for the June and December examinations respectively, and must be accompanied by certificates showing the candidates to have completed the requirements, academic and institutional, for the examination.

57. 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.

58. 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.

THE DIPLOMA IN NURSING

59. Each candidate who satisfies the examiners shall receive a diploma and shall be styled a diplomate in nursing of the University of Leeds.

60. The diploma shall state in which section of part 2 of the examination the candidate has been successful.

61. Before a candidate can be accepted for the course, her name must appear in the general part of the register of nurses of the General Nursing Council of England and Wales, and after becoming state registered she must have gained four years' experience in the practice of nursing, one year of which must be experience in hospital or domiciliary nursing and one year in the branch of nursing selected as the subject of part 2 of the examination. Not more than two years of this experience may consist of attendance upon courses of instruction, or in appointments counted as training periods towards a further qualification in nursing.

62. Candidates must have obtained a school certificate or have passed at ordinary level in four subjects taken at the same time in a General Certificate of Education examination, one of these subjects being English language; or they must have passed a recognised public examination of at least equivalent standard.

63. Candidates must attend a part-time course of study in the University. The course will begin in October each year and will extend over three terms.

DIPLOMA IN NURSING

64. The subjects of the part-time course shall be as follows:
Medico-social legislation and administration, with special reference to nursing (50 hours)
Hygiene and communicable diseases [including bacteriology] (70 hours)
Human relationships in nursing practice and management (30 hours).
65. Application for admission to the course must be made by 31 July of the previous session. The course will not be held unless six or more students have enrolled.
66. The examination shall consist of two parts which may be taken separately or together. If taken separately part 1 must be passed before proceeding to part 2.
67. Part 1 of the examination shall consist of:
- (a) Hygienic problems of disease, with special reference to communicable diseases (1 paper and an oral examination)
 - (b) Medico-social legislation and administration with special reference to nursing* (1 paper and an oral examination)
 - (c) Human relationships in nursing practice and management (1 paper and an oral examination).
- Part 2 of the examination shall consist of:
- (a) A written paper on the general principles of nursing
 - (b) Two written papers and a practical and/or oral examination in one of the special subjects listed below selected by the candidate:
 - (i) Clinical nursing
 - (ii) Public health nursing
 - (iii) Mental nursing.

THE NURSE TEACHER'S CERTIFICATE

68. Before admission to the course for the nurse teacher's certificate candidates must produce evidence:

- (a) That they are state registered nurses on the general part of the register who have had at least three years of post-registration experience in nursing and have held the post of ward sister in an approved hospital for at least one year
- (b) That they have qualified for admission to a degree course in the University or hold the school certificate of one of the following bodies:

The Oxford and Cambridge Schools Examination Board
The Oxford Delegacy for Local Examinations
The Cambridge Local Examinations Syndicate
The University of London
The Northern Universities' Joint Matriculation Board
The University of Durham
The University of Bristol
The Central Welsh Board,
or have had education of a standard satisfactory to the University.

* Examination questions in this subject may relate specifically to the history of nursing.

REGULATIONS

69. Before admission to the examination for the certificate, candidates must produce evidence that they have satisfactorily attended courses at the University as follows:

First term

- Social economics [including duties of almoners] (20 hours)
- Elementary science (100 hours)
- Anatomy and histology (40 hours)
- Physiology [including general biology] (10 hours)
- Psychology (30 hours)
- Visits and excursions (20 hours)
- Nutrition and dietetics (30 hours)

Second term

- Anatomy and histology (10 hours)
- Physiology [including general biology] (40 hours)
- Bacteriology and pathology (20 hours)
- Hospital and nursing school administration (20 hours)
- Pharmacy and the administration of drugs (10 hours)
- History of education and principles of education (30 hours)
- Visits and excursions (20 hours)

Third term [including practical teaching in Easter vacation]

- Methods of teaching (20 hours)
- Hygiene and communicable diseases (40 hours)
- Child health (20 hours)
- Nursing history and development (10 hours)
- Teaching practice [with sister tutors] including Easter vacation (100 hours)

70. The examination shall consist of two parts. Part 1 must be passed before part 2 is taken.

Part 1 of the examination shall be held in March and June in the following subjects:

- (a) Chemistry and physics: a written paper of two hours, and an oral examination
- (b) Anatomy and histology: a written paper of two hours, and an oral examination
- (c) Physiology including nutrition and dietetics: a written paper of two hours, and an oral examination
- (d) Social economics: a written paper of two hours.

Part 2 of the examination shall be held in June and September in the following subjects:

- (a) Pathology, bacteriology, hygiene and communicable diseases: a written paper of two hours, and an oral examination.
- (b) Principles of education, methods of teaching and educational psychology: a written paper of two hours, and an oral examination
- (c) Nursing school administration including history of nursing: a written paper of two hours and an oral examination.
- (d) Practical examination in teaching.

71. The nurse teacher's certificate will be awarded to each candidate who has passed in both parts of the examination.

THE SCHOOL OF DENTISTRY

ORDINANCE VII

DEGREES IN DENTAL SURGERY

1. The degrees in dental surgery shall be:
Bachelor of Dental Surgery (B.Ch.D.)
Master of Dental Surgery (M.Ch.D.)
Doctor of Philosophy (Ph.D.)

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 first examination shall consist of four subjects:
Botany, chemistry, physics and zoology.

7. The second examination shall consist of four parts:

Part 1 Chemistry and physics of dental materials

Part 2 Anatomy, physiology

Part 3 Dental anatomy and physiology

Part 4 Dental mechanics and the properties of dental materials.

8. Before presenting themselves for part 1 of the second examination candidates must have passed or been exempted from chemistry and physics of the first examination; and before presenting themselves for parts 2, 3 and 4 of the second examination they must have passed or have been exempted from all the subjects of the first examination.

9. The third examination shall consist of three parts:

Part 1 Dental pharmacy and pharmacology

Part 2 General pathology and bacteriology

Part 3 Medicine, surgery.

10. Candidates, before presenting themselves for the third examination, must have passed the second examination.

11. The final examination shall consist of three subjects:

Dental surgery

Clinical dental surgery including operative dental surgery, oral surgery, orthodontics, radiology and prosthetics

Special pathology and bacteriology.

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 1, 3 and 4 and in the individual subjects of part 2; in the third examination in parts 1 and 2 and in the individual subjects of part 3; and in the individual subjects of the final examination.

14. Candidates who have satisfied the examiners in all the subjects of the final examination may be awarded

(a) the degree of Bachelor of Dental Surgery with first-class Honours

(b) the degree of Bachelor of Dental Surgery with second-class Honours

(c) 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.

[See also the regulations on page 565]

THE DEGREE OF MASTER OF DENTAL SURGERY

16. The degree of Master of Dental Surgery may be conferred, on payment of the proper fee, upon Bachelors of Dental Surgery of the University and upon graduates in dental surgery of other approved universities, subject to the conditions contained in the following articles.

17. Bachelors of Dental Surgery of the University of not less than one year's standing may proceed to the degree of Master of Dental Surgery upon production of evidence of having been engaged for at least one year in approved dental hospital practice or approved special study, or of having been engaged for at least two years in practice as a dental surgeon.

18. Graduates in dental surgery of other approved universities of not less than two years' standing may proceed to the degree of Master of Dental Surgery upon completion of an approved course of higher study or research in the University extending over a period of two years.

19. Candidates having satisfied the requirements under either article 17 or article 18 may proceed to the degree either (a) by examination only or (b) by presenting a thesis or published work on a subject or subjects approved by the Board of the Faculty of Medicine and submitting themselves in addition to such examinations as may be deemed necessary.

[See also the regulations on page 567]

THE DEGREE OF DOCTOR OF PHILOSOPHY

[The degree of Doctor of Philosophy is governed by ordinance II, articles 50 to 52 and relevant regulations which are set out on pages 279 and 289.]

REGULATIONS

FOR DEGREES AND FOR THE DIPLOMA IN DENTAL SURGERY

THE DEGREE OF BACHELOR OF DENTAL SURGERY

1. Unless specially exempted by the Senate, candidates for the degree of Bachelor of Dental Surgery are required to present evidence of possessing a knowledge of mathematics equivalent to that of ordinary level in a General Certificate of Education examination.

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 on a subject of (a) the first examination or (b) part 2 of the second examination or (c) part 3 of the third examination or (d) the final examination may be exempted from re-examination in such subjects of 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) Botany: lectures and laboratory work for three terms
- (b) Chemistry: lectures and laboratory work for three terms
- (c) Physics: lectures and laboratory work 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), (c) 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 botany or chemistry or physics or zoology in a General Certificate of Education examination may be granted exemption from the courses and examinations in the same subject or subjects of the first examination
- (b) candidates who have reached an approved standard in biology at the advanced level in a General Certificate of Education examination may be granted exemption from the courses and examinations in botany and 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.

Candidates who are exempted from chemistry and physics will take the course in the chemistry and physics of dental materials. The standard required for exemption under (b) will be substantially higher than that required under (a).

REGULATIONS

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.

9. Candidates for parts 1 and 2 of the second examination are required to have attended courses including lectures and practical work in: chemistry and physics of dental materials for three terms; anatomy for three terms, and histology for two terms; physiology and biochemistry for three terms.

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 the Faculty of Medicine.

11. Candidates will not be allowed to proceed to their clinical studies until they have passed part 2 of the second examination.

12. Candidates for parts 3 and 4 of the second examination are required to have attended courses in dental anatomy and physiology for two terms; dental histology for two terms with laboratory instruction; dental mechanics and properties of dental materials for three terms with laboratory instruction; dental prosthetics for one term; and clinical practice for six months.

13. Parts 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 examinations until they have passed part 4 of the second examination.

15. Candidates for parts 1 and 2 of the third examination are required to have attended courses including lectures and practical work in: dental pharmacy for one term; pharmacology for two terms; 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 March and part 2 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 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.

18. 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.

19. 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; operative

dental surgery 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; 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.

20. 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.

21. In determining the award of Honours to candidates their performance in parts 2, 3 and 4 of the second examination and in the third and final examinations will be considered.

THE DEGREE OF MASTER OF DENTAL SURGERY

22. Candidates desiring to proceed to the degree by examination must submit themselves to an examination in the principles and practice of dental surgery and in a special subject selected from the following list:

- Embryology, histology and anatomy in relation to dentistry
- Physiology and biochemistry in relation to dentistry
- Pathology and bacteriology in relation to dentistry
- Pharmacology, pharmacy and therapeutics in relation to dentistry
- Properties of dental materials
- Dental prosthetics
- Dental radiology
- Orthodontics
- Oral surgery
- Periodontology
- Preventive dentistry

23. The examination in the principles and practice of dental surgery shall consist of:

- (a) Two written papers
- (b) A written commentary upon a selected case or cases
- (c) A clinical or practical examination, or both
- (d) A *viva voce* examination.

24. The examination in a special subject shall consist of:

- (a) Two written papers
- (b) A clinical or practical examination, or both
- (c) A *viva voce* examination.

25. Candidates will not be allowed to proceed with the sections of the examination specified in regulations 23(b), (c) and (d) and 24(b) and (c) unless they have satisfied the examiners in the written papers specified in regulations 23(a) and 24(a) above.

26. Candidates desiring to proceed to the degree by thesis or published work must submit the title of the thesis or published work for the approval of the Board of the Faculty of Medicine and, such approval having been obtained, must furnish three copies [printed or typewritten] together with any drawings or specimens which are deemed necessary for illustrating them.

27. The thesis to be presented shall embody the results of personal observation or original research either in some branch of dental surgery or in some science directly related thereto. Original work already published by the candidate shall be admissible in lieu of, or in addition to, a thesis specially written for the degree.

28. Candidates may be examined on the subject of the thesis or may be required to submit themselves to such examination as may be deemed necessary.

29. If the thesis or published work submitted is considered by the examiners to be of exceptional merit the degree may be awarded without further examination.

30. 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, but he shall not be precluded from incorporating in his thesis or published work any part of the work already submitted by him with a view to a degree, provided that in his application for acceptance as a candidate for the degree he states his desire to do so, and, on presentation of his thesis or published work, indicates clearly the part which has been so incorporated.

31. In the case of work submitted under joint authorship, the applicant shall be required to indicate to the satisfaction of the Senate his own share in the joint production.

32. A copy of the thesis submitted in support of the application will be retained in the University library.

33. The names of candidates who have been approved for the degree of Master of Dental Surgery shall be published in alphabetical order and distinction may be awarded on the recommendation of the examiners.

34. Application for examination must be made on the appropriate form and submitted to the Registrar of the University not later than 1 January or 1 July in any year.

THE DIPLOMA IN DENTAL SURGERY

35. All candidates for the diploma in dental surgery (L.D.S.) are required to present certificates showing that they will have attained the age of twenty-one years on the day of award, and that they have attended courses of instruction approved by the University extending over not less than four years, two of such years at least having been passed in the University subsequent to the date of passing the first examination, and to have completed such periods of hospital attendance as may be prescribed by the regulations of the University.

36. Before entering upon courses for the diploma in 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.

37. Unless specially exempted by the Senate, candidates for the diploma in dental surgery are required to present evidence of possessing a knowledge of mathematics equivalent to that of ordinary level in a General Certificate of Education examination.

38. To qualify for the diploma in dental surgery, candidates must satisfy the examiners in the first, second, third and final examinations.

39. 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 40 and 45 below.

40. Candidates who have failed in a subject of (a) the first examination or (b) part 2 of the second examination or (c) part 3 of the third examination or (d) the final examination may be exempted from re-examination in such subjects of the respective examinations as the Board of the Faculty of Medicine may determine.

41. The first examination shall consist of four subjects:

Botany, chemistry, physics and zoology.

Before presenting themselves for the first examination candidates are required to furnish evidence of having attended courses of instruction in accordance with the regulations of the University.

42. 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.

43. For the first examination, the courses of instruction shall be as follows:

- (a) Botany: lectures and laboratory work for three terms
- (b) Chemistry: lectures and laboratory work for three terms
- (c) Physics: lectures and laboratory work for three terms.
- (d) Zoology: lectures and laboratory work for three terms.

44. The first examination will be held in June each year. It will include laboratory work in each of the subjects listed in regulation 9(a), (b), (c) 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.

45. Exemptions may be granted as follows:

- (a) candidates who have passed at the advanced level in botany or chemistry or physics or zoology in a General Certificate of Education examination may be granted exemption from the courses and examinations in the same subject or subjects of the first examination
- (b) candidates who have reached an approved standard in biology at the advanced level in a General Certificate of Education examination may be granted exemption from the courses and examinations in botany and 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.

Candidates who are exempted from chemistry and physics will take the course in the chemistry and physics of dental materials. The standard required for exemption under (b) will be substantially higher than that required under (a).

46. 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.

REGULATIONS

47. The second examination shall consist of four parts:

Part 1 Chemistry and physics of dental materials

Part 2 Anatomy and physiology

Part 3 Dental anatomy and physiology

Part 4 Dental mechanics and the properties of dental materials.

48. Before presenting themselves for the second examination candidates 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.

49. Candidates for parts 1 and 2 of the second examination are required to have attended courses including lectures and practical work: in chemistry and physics of dental materials for three terms; anatomy for three terms, and histology for two terms; physiology and biochemistry for three terms.

50. 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 the Faculty of Medicine.

51. Candidates will not be allowed to proceed to their clinical studies until they have passed part 2 of the second examination.

52. Candidates for parts 3 and 4 of the second examination are required to have attended courses in: dental anatomy and physiology for two terms; dental histology for two terms with laboratory instruction; dental mechanics and the properties of dental materials for three terms with laboratory instruction; dental prosthetics for one term; and clinical practice for six months.

53. Parts 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.

54. Candidates will not be allowed to proceed to the courses for the third and final examinations until they have passed part 4 of the second examination.

55. The third examination shall consist of three parts:

Part 1 Dental pharmacy and pharmacology

Part 2 General pathology and bacteriology

Part 3 Medicine and surgery.

56. Before presenting themselves for the third examination candidates must have passed the second examination and are required to furnish evidence of having attended courses of instruction in accordance with the regulations of the University.

57. Candidates for parts 1 and 2 of the third examination are required to have attended courses including lectures and practical work: in dental pharmacy for one term; pharmacology for two terms; 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.

58. Part 1 of the third examination will be held in March and part 2 in June. Candidates who fail to satisfy the examiners may be permitted to present themselves for re-examination in September.

DIPLOMA IN DENTAL SURGERY

59. 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.

60. 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.

61. The final examination shall consist of three subjects: dental surgery; clinical dental surgery including operative dental surgery, oral surgery, orthodontics, radiology and prosthetics; and special pathology and bacteriology.

62. Candidates for the final examination are required to have passed the third examination, 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; anæsthetics for one term; special pathology and bacteriology for two terms; operative dental surgery 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; oral surgery for three terms; clinical dental surgery for two years; and to have attended for at least two and a half years the practice of an approved dental hospital or of the dental department of an approved general hospital.

63. The final examination will be held in September. Candidates who fail to satisfy the examiners may be permitted to present themselves for re-examination in March, but before doing so must pursue such further study as may be required by the Board of the Faculty of Medicine.

64. Distinction may be awarded in the second examination in parts 1, 3 and 4 and in the individual subjects of part 2; in the third examination in parts 1 and 2 and in the individual subjects of part 3; and in the individual subjects of the final examination.

65. The names of candidates who have satisfied the examiners in the first, second, third and final examinations shall be published in alphabetical order.

THE DEPARTMENT OF ADULT EDUCATION AND EXTRA-MURAL STUDIES

The Department offers to people residing in the extra-mural area of the University, which includes most of the West and North Ridings of Yorkshire and the county boroughs situated in them, two main kinds of facilities in the field of further education.

The first is that of University tutorial classes and preparatory tutorial classes promoted by the University jointly with the Workers' Educational Association through the joint tutorial classes committee. These are classes planned to extend over three winter sessions of twenty-four meetings of two hours each in liberal studies such as English literature, history, philosophy, psychology, economics, political theory and certain of the natural sciences such as botany, biology and geology. Preparatory tutorial classes extend over one session, and are intended to be followed by full tutorial classes in the same or a related subject. All these classes are conducted either by full-time staff tutors specially appointed for this work, or by other members of the University's staff, or by tutors specially approved by the University. The courses are intended to provide a systematic survey of the subject being studied, and students are required, in addition to attending the meetings, to do reading and essay work at home under the direction of the tutor. No charge is made for tuition, but a small fee is payable in order to meet local expenses. Books from the library of the department are available for the use of the students in the classes.

The second kind of facility offered by the department is the provision of extension courses, given usually by members of the staff of the University. The extension courses are provided for students not associated with the Workers' Educational Association, and may be in any of the subjects taught by the University intra-murally, including technological subjects. Many of them are of an advanced or 'refresher' character, for students who already have a good knowledge of the subject, but wish to keep in touch with recent developments and research. A university extension course may vary in length from four to seventy-two meetings; the longer courses extend over three winter sessions, while the shorter ones may be confined to a weekend or a week and be provided on a residential basis. The subjects offered include liberal studies, mentioned in the previous paragraph, and courses of a vocational or semi-vocational kind. In science or technology, the courses arranged are again comparable in standard of work with what is required inside the University. For classes of a non-vocational kind a small fee is charged and paid to the University. In vocational courses, either the organisation requesting

EXTENSION ADVANCED CERTIFICATE

them, or the individuals attending, are normally expected to bear the whole cost. Persons attending extension courses of at least three sessions' duration may obtain a University extension certificate, if the courses in question have been recognised for the award.

A further facility offered by the department is restricted to persons in Her Majesty's forces, and the bulk of this work is centred in Catterick Camp. Since January 1st, 1949, however, the University have assumed responsibility throughout the extra-mural area for the administration of civilian aid to forces education and for devising courses of study which are in accord with the traditions and views of the kind of teaching which is appropriate for universities to provide.

THE EXTENSION CERTIFICATE

Persons attending extension lecture courses of three or more sessions' duration may obtain a university extension certificate. The regulations governing the award of the certificate are as follows:

1. Students in certain extension classes may be granted a university extension certificate. To obtain the certificate students must have been members of an extension class meeting for at least 40 hours in each of three or more 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

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

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

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.

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

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 XXVIII [see pages 49 to 55].

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 Ministry of Education for recognition as qualified teachers.

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.

In addition to official publications, such as its *Handbook*, the Institute issues two periodicals: a termly *Bulletin* and *Researches and Studies*. The *Bulletin* contains news of the Institute, and short articles of general interest about educational work in the area. *Researches and Studies* is principally devoted to longer essays and articles ranging from analyses of contemporary problems in education to accounts of experimental work in the schools and investigations carried out by teachers and members of the staffs of the colleges and the University.

The lecturing staff of the Institute is available for giving lectures and conducting classes for students of education and practising teachers throughout the area. 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.

A senior research fellowship has been established in the Institute since 1949. The Institute also sets aside money each session for the award of grants not exceeding £100 each to help educationists throughout the area in investigations and researches whether in this country or abroad. Grants have been made to members of the staffs of colleges and University departments and to serving teachers in the region.

SCHOLARSHIPS, FELLOWSHIPS AND PRIZES

INTRODUCTORY

"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. . . ." [Extract from clause 23 of the Charter of the University.]

The foundations and endowments fall generally into the following categories:

1. Entrance scholarships for award to new students
2. Senior scholarships for award to undergraduate students after one or more years at the University
3. Graduate scholarships
4. Fellowships
5. Prizes and medals
6. Financial grants and interest-free loans;

and they derive in very large part from the generosity and support of many benefactors, both individual and corporate.

In many cases subject to certain conditions the monetary value of a particular University award may be increased by supplementation by the Ministry of Education up to a standard figure of maintenance equivalent to that which obtains for State scholarships. An award will be thus augmented only if the Senate is able to certify that the holder is a person of exceptionally high academic promise.

All University awards are held subject to compliance with the general and specific regulations set out in the following pages.

Unless otherwise stated all applications for entrance scholarships must be made before 31 January in the calendar year in which entry is intended and they must be made on the appropriate forms so as to reach the Registrar as early in the session as possible. Application for award of an entrance scholarship does not obviate the need for separate application for admission to the University. Applications for graduate scholarships and fellowships must, unless otherwise stated, be made before 1 June.

GENERAL REGULATIONS

1. No election to a scholarship or fellowship will take place 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 a fellowship or scholarship without emolument.

2. All scholarships and fellowships are held subject to the good behaviour of the scholar. The University reserves the power to determine the tenure

of a scholarship or fellowship for irregularity in attendance at lectures, or for any other sufficient cause. A scholar 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 scholarship, unless his retention of it be specially allowed.

3. Scholars and fellows 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 Vice-Chancellor will involve the surrender of the scholarship or fellowship. 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.

4. The Senate reserves power to declare any scholarship or fellowship vacant or to reduce its value on the ground that the holder has previously or subsequent to his election acquired another scholarship.

5. Scholars 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.

THE 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 me 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 £1,700 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 for one or two years after graduation 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 fellowships, scholarships, exhibitions or grants awarded to individual candidates will vary according to circumstances.

REGULATIONS FOR AWARDS FROM THE FRANK PARKINSON FUND

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 fellowships, 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.

ADDITIONAL REGULATIONS GOVERNING ENTRANCE AWARDS AND SENIOR AWARDS HELD BY UNDERGRADUATES

1. Successful candidates will normally be expected to pursue a course as whole-time students proceeding to a degree or diploma.

2. 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.

3. 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.

4. All candidates included in this section must supply information regarding their school careers, together with a statement from the head 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.

AWARDS AND SENIOR AWARDS

5. Scholarships and exhibitions of varying amounts will be awarded each year.

6. 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.

REGULATIONS GOVERNING AWARDS TO POSTGRADUATE STUDENTS

1. Fellowships, scholarships or grants will normally be made for a period of two years, subject to a satisfactory report at the end of the first year.

2. The research or further study may be carried out either in the University or in other approved universities or institutions.

3. 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.

4. In selecting candidates the committee will have regard to the performance of candidates at the degree examinations and the reports of heads of departments.

REGULATIONS FOR ENTRANCE SCHOLARSHIPS

The 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.

The 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.

ENTRANCE SCHOLARSHIPS

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.

The 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 which scholars shall 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. Selected candidates will be required to attend at the University for this purpose.

The William Arthur Crabtree Scholarships

1. The William Arthur Crabtree scholarships, each of the approximate annual value of £40, were established in 1949 with a sum of money bequeathed to the University for this purpose by the late William Arthur Crabtree. 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 be required to take courses leading to a degree in the University.

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. Selected candidates will be required to attend at the University for this purpose.

The 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.

The Margaret James Scholarship

1. 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.

The scholarship may rank for supplementation under the regulations of the Ministry of Education, provided that the holder has given evidence of sufficiently high academic qualifications. The supplementary award, if made, brings the value of the scholarship up to an amount estimated to be adequate to cover the full cost of a university course.

2. The scholarship shall be awarded by the Senate after consideration of a report by a committee of award on which shall sit a representative of the Workers' Educational Association.

3. 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.

4. The scholarship shall be awarded to a woman student who is unable to enter a university without financial assistance, and who has attended classes arranged by, or in association with, the Workers' Educational Association.

5. The scholarship will be awarded to a candidate whom the awarding committee consider able to satisfy the requirements for entry upon a degree course not later than the beginning of the session following the award.

6. The successful candidate will be required to read for a degree in one of the Faculties of the University and to give a written undertaking of her intention to do so.

7. Applications should reach the Registrar not later than 1 April.

*The Blanche L. Leigh Scholarship
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 scholarship is of the annual value of between £30 and £70 and is tenable for three years.

3. The award will ordinarily be made every three years, but the Senate reserves the right not to make an award in any year when there is no candidate of sufficient merit. An additional scholarship or scholarships may be offered in any year if the funds permit.

4. The scholarship will be awarded on the result of an examination in music including harmony in not more than four parts, the history of music, and ear tests.

5. The scholar will be required throughout the term of his scholarship to attend courses of instruction in the University of Leeds either as required for the degree of Bachelor of Arts of the University in general studies, a three years course in music being included in the scheme of study, or as required for the degree of Bachelor of Arts in special studies in music of the University.

6. When a vacancy occurs particulars of the examination will be announced in the public press.

The 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.

The Brick Development Association Scholarships

1. Two entrance scholarships have been provided by the Brick Development Association Ltd., which represents the interests of manufacturers of building bricks.

2. The scholarships are intended to enable promising students to read for an Honours degree, either in ceramics or in engineering (normally chemical engineering or mechanical engineering) as preliminary training for entry into the building brick industry. In certain circumstances students reading for an ordinary degree, with some specialisation in ceramics, may be considered for an award.

3. Each scholarship will be of the value of £350 a year. The scholarships are tenable for three or four years, according to the course of study; but continuation for each year after the first will depend upon a satisfactory report on the work of the scholar.

4. The scholarships are open to applicants from school or from industry; among the latter preference will be given to candidates already engaged in the building brick industry.

5. Candidates must be of British nationality and qualified to enter upon a degree course. They must furnish particulars of their scholastic attainments, industrial experience (if any) and their personal interests and activities. These particulars, together with two references as to character, must be supplied on a form to be obtained on application to the Registrar.

6. The scholarships will be advertised, and applications should be submitted to the Registrar before 30 June.

7. These awards will be made after interview and selected candidates will be required to attend at the University for this purpose.

*The Charles Brotherton Scholarships
in colour chemistry*

1. Two entrance scholarships, each of the value of £125 a year, tenable at the University by students in attendance upon the Honours degree course in the department of colour chemistry and dyeing were made available in 1940 by Mr. Charles Brotherton of Leeds.

2. The entrance scholarships are tenable for three or four academic years according to whether or not the scholar has attained a standard that permits him to be excused the first year work of the four years course leading to the degree of Bachelor of Science with Honours in colour chemistry. Their continuance each year will be subject to a satisfactory report on the work of the scholar in the previous year.

3. Candidates, who must be of British nationality, must supply information with regard to their school career, including the results of public examinations they have taken, and must be qualified to enter upon a degree course.

4. In making the awards, not only will intellectual and scholastic attainments and ability be taken into consideration but the greatest importance will be attached to qualities of character, personality and promise of leadership.

ENTRANCE SCHOLARSHIPS

5. Candidates must give references as to character from not less than two persons who shall not be relatives of the candidate and must supply a statement from the head of the school in which they spent the last three years of school life. They must also furnish a written personal statement concerning their general interests and activities including sports, and their intended career after completing their studies.

6. The awards will be made after interview by the scholarships committee upon which there will be a representative of the Brotherton Trust. Selected candidates will be required to attend at the University for this purpose.

7. Any surplus funds in any particular year may be utilised by the scholarships committee at their discretion either as an entrance scholarship of the value of £100 a year in a subsequent year or as a scholarship for an undergraduate already in residence at the University and studying for the degree of Bachelor of Science with Honours in colour chemistry. In the latter case, the scholarship will be of varying amount, dependent upon the candidate's circumstances, and will normally be awarded for one year in the first instance but may be renewed for a second year.

The Charles Brotherton Scholarships in chemical engineering and gas engineering

1. In 1942 Mr. Charles Brotherton agreed to provide two scholarships of value up to £125 a year in order to enable promising students to follow courses in chemical engineering and gas engineering in the appropriate departments.

2. The scholarships are tenable for periods of up to four years in order to enable students to complete Honours courses but continuation for each year after the first will depend on a satisfactory report on the work of the scholar.

3. The scholarships are open to applicants from school and to applicants who are already engaged in industry.

4. Candidates must be of British nationality and qualified to enter upon a degree course. Candidates 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 awards will be made after interview. Candidates will be required to attend at the University for this purpose.

The Courtauld Scholarships in textile technology

1. A limited number of entrance scholarships, for which funds have been provided by the Courtaulds' Scientific and Educational Trust, are open to students wishing to pursue studies in any branch of textile technology.

2. The value of each of the scholarships will be £50 a year for three years and awards will be made on the results of examinations for the General Certificate of Education.

The 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 £300 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 gas engineering, general 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.

*The 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 student 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.

The 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.

ENTRANCE SCHOLARSHIPS

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.

The Dr. Walter Hargreaves Scholarship

1. The scholarship was endowed with £1,250 in 1944 by the shareholders of Henry Briggs, Son & Co., Ltd., as a testimonial to Dr. Walter Hargreaves on his retirement from the chairmanship of the company.

2. The scholarship is tenable at the University of Leeds by a student in attendance upon either an Honours or ordinary degree course in mining or upon an approved course in mine surveying.

3. The scholarship, of the approximate annual value of £40, is tenable in the first instance for one year but may be renewed for one or two years provided that the report on the work of the student for the previous year is satisfactory.

4. The award will be made after interview by a sub-committee of the mining advisory committee of the Council upon which there will be a representative of the board of directors of Briggs Collieries, Ltd.

5. In making the award not only will scholastic attainments and intellectual ability be taken into consideration but, in addition, great importance will be attached to evidence indicating qualities of leadership.

6. If in any year there is no suitable candidate under 2. above then the award may be made to a graduate to undertake research at the University into an approved subject relating to the working and production of coal, including the development of 'high ash' seams, or to the development of products derived from coal.

The 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.

*The William Cartwright Holmes Scholarship
in gas engineering*

1. The scholarship was endowed in 1929 by Mr. P. F. Holmes and Mr. D. M. Henshaw as a memorial to William Cartwright Holmes of Huddersfield.
2. The scholarship is held at the University of Leeds.
3. The normal value of the scholarship, which may be increased in necessitous cases, is £140 a year, and it is tenable for one, two or three years, with power of extension for a fourth year on the recommendation of the Senate to the William Cartwright Holmes scholarship committee, appointed by the Institution of Gas Engineers.
4. The continuation of the scholarship each year after the first will depend on the work done by the scholar in the previous year being reported to the committee by the Senate as satisfactory.
5. The scholarship is intended to enable a student to take a course of study at the University in preparation for a responsible position in gas engineering.
6. Candidates for election to the scholarship are required to produce evidence of having reached a standard of scientific or technological education sufficient to enable them to take advantage of the course leading to the degree of Bachelor of Science in gas engineering, and to give an undertaking of their intention to follow the profession of gas engineering.
7. As each vacancy occurs the award of the scholarship will ordinarily be made during the month of June after advertisement in the technical press.
8. The scholarship will be awarded by the Senate after consultation with the William Cartwright Holmes scholarship committee.
9. Each candidate is required to submit a statement of his previous education and of his scientific or technological qualifications, testimonials from the head of the institution in which he received his previous education, and if he has been already engaged in a gas engineering works, from the engineer or manager of the works.
10. The Senate, in conjunction with the William Cartwright Holmes scholarship committee, will determine what examination, if any, is necessary in order to guide them in the award of the scholarship.

*The Matthews Scholarship
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, until exhausted, for the provision of a 'Matthews Scholarship' to enable promising students of limited means to undertake the course leading to the degree of Bachelor of Science with Honours in colour chemistry and dyeing.

3. The award will normally be of the value of £100 a year but may vary between £50 and £120 a year according to the circumstances of the scholar. The scholarship will be tenable for three years subject to a satisfactory report on the work of the scholar in the previous year.

4. The scholarship will be awarded by the Senate after interview. Selected candidates will be required to attend at the University for this purpose.

The Shell Scholarships in mining

1. Two or three scholarships in mining, of the value of £300 a year, 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.

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.

*The Richard Sutcliffe Scholarship
in mining*

1. The firm of Messrs. Richard Sutcliffe Ltd. has made available a scholarship in mining of the value of £160 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, which was awarded for the first time in 1946, 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 mining.

5. The scholarship may only be held by a student who would otherwise be unable to undertake the course, and in making the award the University will not only take into consideration intellectual and scholastic attainments and ability, but will also attach importance to character, personality and promise of leadership.

6. Candidates must submit a written statement giving particulars of their school career, public examination results, general interests and activities. This must be supported by a statement from the headmaster of the school which they last attended. Candidates must also furnish references as to character from not less than two persons not related to them; those engaged in business or industry should, in addition, submit a statement from their employer.

7. The award will be made by the Senate after interview; selected candidates will be required to attend at the University for this purpose.

*The Corbet and Henry Woodall Scholarship
in gas engineering*

1. Formerly known as the Corbet Woodall scholarship, this award was originally endowed in 1915 by Sir Corbet Woodall through the Institution of Gas Engineers and is to be held at the University of Leeds. On the death in 1948 of Mr. Henry Woodall, a son of Sir Corbet, certain gas companies with which the late Mr. Woodall was more closely associated, provided a sum to increase the endowment. At the suggestion of these contributors, the name of the scholarship was changed in order to perpetuate his memory.

2. The value of the scholarship is now approximately £135 a year and it is tenable for three years, with power of extension for a fourth year on the recommendation of the Senate to the Corbet Woodall scholarship committee.

3. The continuation of the scholarship each year after the first will depend on the work done by the scholar in the previous year being reported to the committee as satisfactory.

4. The scholarship is intended to enable a student to take a course of study in gas engineering at the University in preparation for a responsible position as a gas engineer. Candidates for election to the scholarship are required to produce evidence of having reached a standard of scientific or technological education sufficient to enable them to take advantage of the course leading to the degree of Bachelor of Science in gas engineering, and to give an undertaking of their intention to follow the profession of gas engineer.

5. On each vacancy the award of the scholarship will ordinarily be made during the month of June after due advertisement in the technical press.

6. The scholarship will be awarded by the Senate after consultation with the Corbet Woodall scholarship committee.

7. Each candidate is required to submit a statement of his previous education and of his scientific or technological qualifications, testimonials from the head of the institution in which he received his previous education, or, if he has been already engaged in a gas engineering works, from the engineer of the works.

8. The Senate, in conjunction with the Corbet and Henry Woodall scholarship committee, will determine what examination, if any, is necessary in order to guide them in the award of the scholarship.

The 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 or a diploma 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.

The *Clothworkers' Scholarships* in colour chemistry and dyeing and in textile industries may also be awarded as entrance scholarships (see page 595).

REGULATIONS FOR SENIOR SCHOLARSHIPS

[Students are not required to make application for election to senior scholarships.]

The 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 Technology [except in textile industries].

The 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 Technology [except in textile industries].

The 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.

The 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.

The 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.

The 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 or diploma 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.

5. Applications must be sent to the Registrar not later than 1 August.

The 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 Technology.

2. Women are not eligible for the Akroyd scholarships.

The 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 Technology.

The 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 student of pure chemistry in the University whose work in inorganic chemistry is considered to be of special merit.
3. The scholarship is of the value of approximately £60 and is tenable for one session in the first instance with the possibility of renewal.
4. The scholarship may be awarded alternatively as a graduate scholarship (see page 601).

The 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 1, 2 and 3 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

SENIOR SCHOLARSHIPS

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.

The 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.

The 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 or diploma 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.

The 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 Technology.

The 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 or diplomas 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 or diploma 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.

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, after a report from the examiners, on the results of part II 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.

REGULATIONS FOR GRADUATE SCHOLARSHIPS

University Research Scholarships

A limited number of University scholarships equivalent in value to a Ministry of Education 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 scholarships 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.

External Postgraduate Scholarships

1. A limited number of research scholarships is offered annually to graduates of universities other than Leeds. These scholarships, each of the value of £360 a year plus fees, will be tenable for advanced study or research in all Faculties and will be renewable annually. Maximum tenure is three years.

2. Applications should be submitted on forms obtainable from the Registrar, The University, Leeds 2, by 1 May.

The 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 [which may be increased to the value of a State Studentship awarded by the Ministry of Education].

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.

*The Hastings Senior Scholarships for the Universities of
Leeds, Sheffield and Hull*

1. Hastings senior scholarships will be awarded for courses of study at the Queen's College, Oxford, 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. The normal maximum value of each scholarship shall be £125 per annum.

3. The scholarships are confined to persons who have passed with Honours all the examinations for the Bachelor's degree at the University of Leeds, the University of Sheffield or the University of Hull.

4. One scholar may be elected each year, if a suitably qualified candidate presents himself, and the election will usually take place in July. The Vice-Chancellor of Leeds, the Vice-Chancellor of Sheffield and the Vice-Chancellor of Hull may [each in his turn and in this order] recommend in writing to the Provost one or more candidates for consideration. If on any occasion no suitable candidate is recommended the University next in turn may be asked to make a recommendation.

5. 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.

6. The scholarship may not be held by a married man except with the consent of the Governing Body [which consent shall not be given unless the scholar has attained the age of twenty-four]. Any scholar who ceases to be a member of the College or accepts any office or undertakes any work which, in the opinion of the Governing Body, is incompatible with the full performance of his duties as a scholar will forfeit his scholarship.

The 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 archæology] 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

GRADUATE SCHOLARSHIPS

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.

The 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 Ministry of Education] 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.

The Harold Tetley Postgraduate Studentship in the history of art in Yorkshire

1. The studentship, designed for the promotion of the study of the history of art in Yorkshire, was founded in 1938 by Colonel C. H. Tetley [Pro-Chancellor from 1926 to 1946].

2. It is of the value of £200 a year and is tenable for two academic years, subject to a favourable report on the student's work in the first year. In special circumstances the tenure of the studentship may be extended for a third year.

3. The successful candidate shall work under conditions approved by the Senate. He will be expected to submit a report upon the progress of his work at the close of the first year and ultimately to publish the results of his investigations.

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.

The 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 more 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 withhold 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.

The Coal Tar Research Association Scholarships

1. Two scholarships, each of the value of £325 a year, have been provided by the Coal Tar Research Association, and will be awarded annually by the

GRADUATE SCHOLARSHIPS

Senate on the recommendation of the Livesey professor of coal gas and fuel industries to candidates qualified to prosecute research at postgraduate standard on subjects connected with the coal tar industry.

2. In making his recommendation the professor will consult the Coal Tar Research Association, but the award of the scholarship will ultimately rest with the Senate.

3. The scholarships will normally be awarded to students who have a good Honours degree in fuel, chemistry, physics or any subject related to chemical technology, but in exceptional circumstances the Senate may make the awards to non-graduates.

4. In general, the scholarships will be tenable for two years, but the Senate may, on the recommendation of the professor, extend the tenure of an award.

5. Holders of the scholarships will be required to spend the whole of their time, excluding the usual vacations, in study and research work, normally within the University. The work will be concerned with subjects connected with the coal tar industry, and will be chosen and directed by the professor, after consultation with the Coal Tar Research Association.

6. All facilities for research provided within the department of coal gas and fuel industries in the University will be available to the holders of the scholarships, and in recognition of this the Coal Tar Research Association will pay an annual fee of £50 during the tenure of each scholarship.

7. A report on the research work carried out by each scholar shall be submitted to the Senate and also to the council of the Coal Tar 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 scholars shall be published in the most suitable manner, but the investigators are not permitted to make commercial use of their results without the consent in writing of the Coal Tar Research Association and the Department of Scientific and Industrial Research.

9. The scholarships will be awarded annually during June or July after due advertisement has been made in appropriate journals. Applications for the scholarships must reach the Registrar not later than 1 June each year.

The 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 £60 and is tenable for one session in the first instance with the possibility of renewal.

4. The scholarship may be awarded alternatively as a senior scholarship (see page 594).

The 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.

The 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.

The Sir Edwin Airey Bursary

1. The Sir Edwin Airey bursary was instituted in 1953 with a gift made by Sir Edwin Airey to enable a Dutch student having a university qualification in engineering to carry out advanced study and research in concrete technology.

2. The bursary of the value of £350 will be awarded by the Senate on the recommendation of the head of the department of civil engineering. The award will be made for one year and may be renewed for not more than one further year.

3. The holder of the bursary will be required to devote his whole time to advanced study or research in the department of civil engineering in the University.

4. Applications, giving full particulars of the candidate's qualifications and experience, should reach the Registrar not later than 1 May.

*The Clothworkers' Research Fellowships and Scholarships
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. Fellows and scholars 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.

*The Clothworkers' Research Fellowships and Scholarships
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. Fellows and scholars 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.

The Hickson and Welch Research Scholarship

1. The scholarship, of the value of £300 a year, was established in 1952 by wish of Mr. Bernard Hickson, a former student of the University and chairman and managing director of Messrs. Hickson & Welch Ltd., chemical manufacturers, Castleford.

2. The scholarship will be awarded by the Senate 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. Preference will be given to candidates who graduate with Honours in colour chemistry.

3. The scholar 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.

5. Applications should reach the Registrar not later than 31 May each year.

The 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 £300, 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.

The Sandoz Research Scholarship

1. The scholarship has been established by Sandoz Products Ltd. for the encouragement of research in textile chemistry in its application to the problems of the dyeing industry.

GRADUATE SCHOLARSHIPS

2. The scholarship, which is of the annual value of £300, is open only to male candidates. Preference will be given to a graduate of the University of Leeds who holds a degree with Honours in colour chemistry and dyeing, but consideration may be given to any Honours graduate who is deemed to be exceptionally qualified for research in the field indicated.

3. The scholarship is tenable for two years but renewal for the second year is subject to a satisfactory report at the end of the first year. Normally scholars will be expected to apply for acceptance as candidates for the degree of Doctor of Philosophy.

4. The scholar will be required to devote the whole of his time to research within the University under the direction of the head of the department of textile industries.

5. The award will be made by the Senate on the recommendation of the head of the department of textile industries.

6. Applications should be submitted to the Registrar not later than 1 May each year.

The Kohnstamm Research Scholarship

1. This scholarship was instituted in 1959 by Messrs. R. and A. Kohnstamm Ltd. for the promotion of research in the chemistry and physics of leather manufacture.

2. It is of an annual value of £340 in addition to tuition fees.

3. The scholarship will be awarded by the Senate on the recommendation of the professor of leather industries to an Honours graduate of the department of leather industries or, in exceptional cases, to an Honours graduate in another school of the University, or to a suitably qualified graduate of another university.

4. The scholarship is tenable for one year in the first instance, and may be renewed for one or two further years.

5. The scholar is required to pursue full-time research in the University under the direction of the professor of leather industries.

6. Applications should reach the Registrar preferably not later than 30 June each year, but later applications may be considered.

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.

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, of the value of approximately £160, 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, 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.

GRADUATE SCHOLARSHIPS

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.

REGULATIONS FOR FELLOWSHIPS

University Fellowships

1. University fellowships may be awarded to graduates of the University within three years from the date of graduation. Such fellowships will be of the value of £150 tenable for one year. The object of the fellowships is the encouragement of research and the fellow will be required to devote the whole of the time during which he continues to hold the fellowship to the pursuit of such research under conditions approved by the Senate. In special cases an additional grant not exceeding £20 may be made to the fellow by a special vote of the Senate and Council to assist him in carrying out his researches. No fellow shall be permitted to hold any paid appointment, or to undertake remunerative work without previous permission from the Senate, which shall have power in such cases to reduce the value of the fellowship.

2. Fellowships will be awarded only to candidates who have given evidence of qualifications for undertaking original work. Fellows are required to send to the Registrar a report of the work done by them during the tenure of the fellowship before 1 June of the year following the award of the fellowship, in order that it may be laid before the Senate. The fellowships may, in exceptional instances and with the consent of the Senate and the Council, be renewed for a second year.

The 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 Ministry of Education].

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.

The 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 Ministry of Education]. The fellowship is awarded to such graduates in the departments of English, history or economics, 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 departments of English, history and economics.

The 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 Technology.

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 Technology, 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 Technology 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 technology 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. Others 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 Technology 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.

The Boltonia Fellowship

1. Messrs. Bolton Leathers, Ltd., Bolton, Lancs., have made available for a period of three years in the first instance, a fellowship to enable a suitably qualified graduate of the University of Leeds or of any other university within the British Commonwealth or the United States of America to undertake research in the department of leather industries.

2. The value of the fellowship will be from £450 to £600 a year according to the qualifications and experience of the holder.

3. The period of tenure of the fellowship shall be three years.

4. The fellow will be required to devote his whole time to research in a subject of interest to the light leather industry selected by the head of the department of leather industries, in consultation with the donors of the fellowship.

5. Interim reports on the research conducted by the fellow shall be made annually to the Senate and a final report on the expiration of the tenure of the fellowships.

6. The fellowship will be awarded by the Senate on the recommendation of a special committee. Selected candidates will be required to attend at the University for interview.

*The Bradford Dyers' Association Fellowship
in dyeing and in textile finishing*

1. Two research fellowships, each of the value of £600 a year, have been established from funds provided by the Bradford Dyers' Association, Ltd., for the investigation of the properties of natural and synthetic fibres and the study of processes used in their treatment.

2. The fellowships have been established, one in dyeing in the department of colour chemistry and dyeing and one in textile finishing in the department of textile industries, for the investigation of problems connected with the dyeing and finishing of textile fabrics.

3. Applicants should be graduates with a sound training and some research experience in chemistry, preferably physical chemistry. Previous knowledge of the textile or dyeing industry is not essential.

4. The fellowships will be available for two years in the first instance but may be renewed for a further period.

5. The fellows will be invited to join the Federated System of Superannuation for Universities, under which the member contributes five per cent of his salary and the University contributes a sum equivalent to ten per cent of the salary.

6. The fellowships are open equally to men and women.

7. Applications, including copies of testimonials and reprints of any published papers, together with the names of two referees, should be sent to the Registrar.

The British Coke Research Fellowship

1. The fellowship, of the value of £350 a year, is provided by the British Coke Research Association, and will be awarded annually by the Senate on the recommendation of the Livesey professor of coal gas and fuel industries, 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 Department of Scientific and Industrial Research.

9. The fellowship will be awarded annually during June or July after due advertisement has been made in appropriate journals. Application for the fellowship must be addressed to the Registrar and should reach him on or before 1 June.

The 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 two kinds:

(a) junior fellowships of an annual value of about £300, plus fees [restricted to graduates of the University of Leeds and normally tenable for two years] intended to enable promising graduates to gain a training in scientific research;

(b) senior fellowships of an annual value of about £600 [normally tenable for one year with the possibility of renewal up to three years] intended to enable anyone who has already been trained in research to continue investigations of special interest and importance.

3. Any income not expended in any year may be added to the capital of the fund.

4. Applications should reach the Registrar not later than 1 June.

The Gas Research Fellowship

1. The fellowship, of the value of £600 a year 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 Technology, 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 Technology, 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 coal gas and fuel industries 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 gas engineering and general fuel 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.

The Imperial Chemical Industries Ltd. Research Fellowships

1. Eight fellowships have been instituted by Imperial Chemical Industries Ltd., for research in bacteriology, biochemistry, biomolecular structure, botany (plant biochemistry), chemical engineering, chemistry, chemistry of leather manufacture, 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, textiles (protein chemistry).

2. Appointments to these fellowships will take effect on 1 October, but permission to defer tenure can be granted to persons on national service. The normal tenure of a fellowship will be for three 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 £700 and £1,000 a year 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 Superannuation Scheme for Universities, and any necessary adjustments in their stipends will be made.

4. The fellowships are open to men and women.

5. A fellow will be required to undertake a limited amount of teaching.

The Procter Memorial Fellowship

1. The Procter memorial 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.
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 of not longer than one academic year instead of proceeding to make another appointment.
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 professor of leather industries. 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 £400 plus fees but rising to £500 in exceptional cases, 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 head of the department of leather industries in consultation with the Director of the Research Association.
5. The award will be made by the Senate on the recommendation of the head of the department of leather industries.

The Textile Chemistry Research Fellowship

1. The fellowship has been endowed by an anonymous donor for the purpose of promoting the study of the chemistry of animal fibres in the textile chemistry laboratory of the University.

2. The value of the fellowship is £200 a year tenable for two years or more, and the fellow will be required to devote the whole of his time to the pursuit of the research in question.

3. Applications for the fellowship should be made to the Registrar on or before 1 June.

The Turner and Newall Research Fellowship

1. Messrs. Turner & Newall have instituted a fellowship to be awarded for research in engineering, inorganic chemistry or physics or some other allied science.

2. An appointment to the fellowship will take effect on 1 October, but permission to defer tenure can be granted to a candidate on national service. The normal tenure of the fellowship will be for three years and may be renewed for one or more years. The question of renewing the fellowship will normally be considered towards the end of the second year of tenure.

3. The normal value of the fellowship will be £600 a year 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 the fellow will be admitted to the Federated Superannuation Scheme for Universities, and any necessary adjustments in stipend will be made.

4. The fellowship is open to men and women.

5. The fellow will be required to undertake a limited amount of teaching.

The 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.

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 the University in agriculture (including the agricultural sciences), or to a member of the staff or a postgraduate student of the University in agriculture (including the agricultural sciences) in the department of agriculture. 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 or in the agricultural sciences 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.

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 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.

FELLOWSHIPS

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.

Regulations governing the award of research fellowships by the University of Leeds Institute of Education will be found on page 642.

REGULATIONS FOR PRIZES

The 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 10s. 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 placed in the first class in one of the following schools of special studies: classics, Latin, 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 the special studies school of Latin, and failing such a candidate, to the most deserving student with first class Honours in the special studies school of Greek.

4. If in any year no candidate is placed in the first class in any of the above-mentioned special studies schools 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 any of these three Honours schools.

The 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 three guineas, 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.

The David Forsyth Prize

1. The sum of £238 was subscribed by past scholars of Dr. David Forsyth, for many years head master 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.

PRIZES

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.

**The Gladstone Memorial Prize*

1. The trustees of the Gladstone Liberal Memorial Fund have established Gladstone memorial prizes to be given at the universities and university colleges in England, Scotland, and Wales for special proficiency in history, political science and economics. An annual prize of the value of £20 has been offered to and accepted by the Council of the University. The prize will be given either wholly in books, or half in books and half in money, at the option of the prize winner. The prize will be awarded under the following conditions:

2. The prize will be awarded in June of each year for an essay on some subject connected with either history or political science or economics and with some aspect of British policy—domestic, imperial or foreign—in relation to finance or other matters from the beginning of the 19th century onwards to the present time. The subjects of the essays will be announced in the preceding June.

3. 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 with Honours upon subjects connected with history, or political science or economics will be regarded as competing for the essay.

4. No student who has once obtained the prize may compete a second time.

5. 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.

6. The essay must be sent to the Registrar not later than 1 May each year.

The 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.

The 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.'

*This award is in abeyance at present.

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 1960-61 an essay may be submitted on one of the following subjects:
 - (a) The poetry of Robert Graves.
 - (b) The novels of Hugh MacLennan.

*The 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.

*The 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.

*The next award will be made in 1962.

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 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 a clinical and oral examination in paediatrics which will normally be held in November, 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 sub-dean of the Faculty of Medicine by 15 October.

*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 November. 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 sub-dean of the Faculty of Medicine by 15 October.

*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 December 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.

The 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 four-year degree course with Honours in agriculture or in one of the agricultural sciences. 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 department of agriculture.

The 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 placed in the first class in the Honours schools of civil, mechanical, or electrical engineering.

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 part II 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.

The 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 £5.

2. The prize will be awarded annually for an essay not exceeding 5,000 words on some aspect of the chemistry of leather manufacture. The subject or choice of subject will be published in December each year and the award made in the following June.

3. All students in the department of leather industries who are taking courses leading to the degree of Bachelor of Science or the diploma in leather manufacture are eligible to compete.

4. The award will be made by the Senate on a recommendation of the head of the department of leather industries made after consultation with the managing director of Messrs. W. L. Ingle & Sons, Ltd.

5. If in any year no essay is deemed worthy of recommendation the income for that year will become available for the award in a subsequent year.

6. Essays must be submitted to the head of the department of leather industries not later than 1 May each year.

The British Oil and Cake Mills Prize

1. Messrs. British Oil and Cake Mills, Ltd. have established a prize with the object of promoting interest in animal husbandry.

2. The prize will be awarded annually by the Senate on a joint report from the professors of the department of agriculture for an essay relating to either the feeding or the management of cattle, sheep, pigs or poultry.

3. It will be open to competition among all undergraduate students of the University but no student who has once obtained the prize may enter for it a second time.

4. The value of the prize is £15. 15s. The money may be expended by the winner in any way approved by the Senate, which will assist him in his studies.

5. The Senate reserves the right to withhold the prize in any year if no essay of sufficient merit has been submitted.

6. The essay must be sent to the Registrar not later than 1 May each year.

*The British Ropes Ltd. Prize
in mining*

1. Messrs. British Ropes Ltd. present the sum of £20 annually to the department of mining 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 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.

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4. In awarding the prize consideration will be given to the whole of the systematic and practical work of the candidates in courses G1 and G2 in agricultural chemistry.

5. In the event of there being two candidates of equal merit, the prize shall be divided.

The Heseldin 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 course, is adjudged by the professor of civil engineering to show most promise.

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 used to make additional awards in subsequent years.

4. The award will consist of books or instruments to the value of £10.

The 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.

The 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.

2. The sum of £15 shall be allotted annually at the discretion of the head of the department of mining.

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.

The 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, in their opinion, is the most outstanding graduate of the year in the school of special studies in chemistry.

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.

The Barker Prize Fund

1. The prize 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 will ordinarily be awarded in each year, one to the student presenting the best thesis for a diploma in the department of textile industries and the other to the student placed first in the final examination for the degree of Bachelor of Science in textile industries.

3. Either or both of the prizes may be withheld if there are no candidates of sufficient merit in any year.

4. The prizes shall be of equal value and the whole of the annual income of the fund shall be used for the purpose, provided that the value of each prize shall not exceed £5.

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 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.

*The 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 head of the department of agriculture to the best student in the subject of agricultural chemistry (courses G1 and G2).

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.

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The H. M. 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 £7, 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.

The Foyle Prize

1. The prize, which was instituted in 1927 by Messrs. W. G. Foyle, book-sellers, London, is offered for award each year and consists of books to the value of £5.
2. The prize will be awarded in May for an essay on some subject connected with the scientific method and the general development of science. The subjects of the essays will be announced in the preceding October.
3. The prize is open to competition among all full-time students of the University save that no student who has obtained the prize may compete a second time.
4. No essay in consideration of which either wholly or in part, a University scholarship or prize shall have been awarded, shall be admissible for other than honorary recognition.
5. The essay must be sent to the Registrar not later than 1 April.

The Whiddington Prize

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.
2. The prize will be awarded by the Senate, on the recommendation of the Cavendish professor of physics, to the student graduating with Honours in special studies in physics who is judged to be of greatest merit in the combination of experimental ability and understanding of physical principles, provided that no award be made in any year unless a sufficiently high standard is attained.
3. The award, which will be of the value of approximately £5, shall be used for the purchase of books.
4. In the event of an award not being made in any year, the income may be added to the capital.

The 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.

The 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 head of the department of mathematics to the student whose work in the final examination of the special studies school of 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.

The 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 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.

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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

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.

The 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.

3. The prizes will be awarded annually by the Senate on the recommendation of the head of the department on the results of each of the following examinations :

- (a) the first-year qualifying examination for the degree of Bachelor of Arts in special studies in sociology ;
 - (b) the final examination for the degree of Bachelor of Arts in special studies in sociology, or in sociology and philosophy ;
 - (c) the final examination for the diploma in social studies ;
- provided that no award will be made in any year unless a sufficiently high standard is attained.

The Lucy Whitmell Prize

1. The late Mr. Charles T. Whitmell presented to the University the sum of £100 for investment, with a view to establishing a prize in Italian language and literature in memory of his late wife. A prize of the value of £5 will be awarded annually, under the following conditions:

2. The prize will be awarded in June each year for an essay on some subject in Italian connected with the life, works and times of Dante, the choice of a subject being left to the individual candidate.

3. It will be open to competition among all students of the University, including students in attendance on extra-mural courses under the supervision of the University.

4. No student who has once obtained the prize may compete a second time.

5. 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.

6. The essay must be sent to the Registrar not later than 1 May.

The 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 reading (a) for the degree of Bachelor of Arts or Bachelor of Science in special studies in geography, or (b) for the degree of Bachelor of Arts or Bachelor of Science in general studies in which geography is taken as a three-year subject.

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.

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4. Works submitted must reach the head of the department of fine art not later than 1 May in the year of award.

The 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 special studies (music) students and to those general studies students who intend to continue a course in music for a further two years.

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.

The 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 of those who have taken:

(a) Part 1 or part 2 of the final examination for the degree of Bachelor of Arts in special studies in geography;

or (b) The examination on the two years course in geography leading to the degree of Bachelor of Arts in general studies;

or (c) The examination on two General courses in geography leading to the degree of Bachelor of Science in general studies.

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.

The 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.

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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 sub-dean of the Faculty of Medicine by 15 October.

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 part II of the second examination for the degrees of Bachelor of Medicine and Bachelor of Surgery of the University.

The 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 March 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 March 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 clinical 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 on the results of an examination which is normally held in November. Candidates who satisfy the examiners in the written paper will be required to take a clinical and oral examination in addition.

3. 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 sub-dean of the Faculty of Medicine by 15 October.

*The Scattergood Prize
in obstetrics and gynæcology*

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 November. 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 sub-dean of the Faculty of Medicine by 15 October.

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 £3 10s. will be awarded annually by the Senate on the result of a clinical examination in ophthalmology, which will usually be held in November, 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 Sub-Dean of the Faculty of Medicine by 15th October.

*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. 10s. is awarded annually on a competition held under the following conditions:

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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 November 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.

The 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 December and June 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.

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 of the value of three guineas in the subject of clinical dental surgery.

2. The award will be made by the Board of the Faculty of Medicine on the recommendation of the clinical dental committee.

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 or for the diploma in dental surgery, and no candidate may compete more than once for the prize.

REGULATIONS FOR MEDALS

The 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. Leblanc medals may be awarded at the final examination for the degree of Bachelor of Science in the Honours schools of colour chemistry, leather industries, and fuel and metallurgy to such students as are reported by the examiners to have shown special distinction and who are recommended jointly by the internal examiners in these subjects.

The 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 professor of leather industries, 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.

The 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 department. 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.

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 first class Honours in the list of Bachelors of Medicine and Bachelors of Surgery of the calendar year.

MEDALS

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 Percy Leigh Medal

1. Mr. P. T. Leigh, L.D.S. (Leeds and Glasgow), R.C.S. (England), 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 the most skilled senior pupil of the year in the dental mechanics laboratory of the dental school.
2. A medal is available for award each year to the most skilled senior pupil in the dental mechanics laboratory of the University of Leeds school of dentistry who has taken the full pupilage in the University.
3. The award will be made by the Board of the Faculty of Medicine on the nomination of the clinical dental committee.
4. The medal will be awarded on the result of an examination in dental mechanics to be held annually, and on a consideration of the candidate's general record. A high standard of skill must be shown.
5. No student will be permitted to compete for the medal more than once.
6. If two candidates are equally deserving of the award, two medals may be awarded.

The Charles Rippon Medal

1. Mr. Charles Rippon, Ph.D., L.D.S., on his retirement 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 or for the diploma in dental surgery and who have pursued the full qualifying course at the University of Leeds after registration.
3. The award will be made by the Board of the Faculty of Medicine on the nomination of the clinical dental committee after the results of the two final examinations of the year 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 senior operating prize examination as well as of the reports of the tutors in the various clinical departments of the school.
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.

REGULATIONS FOR FINANCIAL GRANTS AND LOANS

The 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.

The 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 scholarships committee.

The 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 the 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 a 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.

The 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.

The 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.

The 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.

The 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 Technology, 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.

The Lord Snowden Endowment Fund

1. The 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 special studies 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.

4. (a) The Lord Snowden travel bursaries will be awarded annually and will be of a value not exceeding £50.

(b) The awards will be open to candidates for the degree of Bachelor of Arts in special studies in music or to those who are taking music for three years in the course leading to the degree of Bachelor of Arts in general studies. 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.

The 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.

The 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.

The 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.

The 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 who are pursuing a three years 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.

The 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.

Maintenance grants from senior scholarship funds

The Senate may at its discretion use senior scholarship funds to make grants to students in need of financial assistance, including those who have not completed one year's attendance in the University. Students wishing to be considered for such grants should make application on the appropriate form, which can be obtained from the Registrar.

The Students' Aid Fund

1. The students' aid fund was established by the Council to meet the case of students who through some unforeseen circumstance arising during their course would be unable without some financial assistance to complete their course in the University. Advances may be made from this fund in the form of a loan on a signed undertaking by the student to refund the amount advanced as soon as possible. The loans are made free of interest for a period of five years after the completion of the student's course in the University and are thereafter subject to interest at the rate of five per cent per annum.

2. No precise limit has been placed on the amount of loan which may be made in any particular case from this fund but in no case will it exceed the minimum amount which is indispensable to enable the student to complete his course. It will therefore be necessary that the applicant should give full information as to his source of income together with an estimate of his expenses. All such information will be treated as strictly confidential by the small committee which is charged with the administration of the fund.

3. Applications should be addressed to the Registrar, from whom forms for the purpose may be obtained.

Regulations governing grants from the research fund of the University of Leeds Institute of Education will be found on page 642.

AWARDS

OF THE UNIVERSITY OF LEEDS INSTITUTE OF EDUCATION

The Institute of Education Research Fellowships

1. Two research fellowships are provided in the University Institute of Education.
2. The senior research fellowship has an annual value of between £900 and £1,150, and is tenable for a period of two years. Under certain circumstances it is possible for the appointment to be extended for a further year. The University is prepared, if necessary, to negotiate with an employer for the secondment of a successful candidate during the tenure of the fellowship.
3. Unless an alternative arrangement is made for a candidate who is seconded, the senior research fellow will be required to join the federated system of superannuation for universities under which the member contributes five per cent of his salary and the University contributes a sum equal to ten per cent of his salary.
4. The second research fellowship is normally on a part-time basis, and is tenable for one year, the annual value being between £400 and £650.
5. Candidates for both fellowships should be prepared to make a special study in an approved field of educational interest.
6. The fellowships are open equally to men and women.
7. Applications, including the names of three referees, together with an outline of the programme of research proposed by the candidate, should be sent to the Registrar of the University.

The 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. A list of topics on which, in the opinion of the Institute, researches could profitably be made, is available on application to the secretary of the Institute.
4. Successful applicants will be required to present a report on the results of the researches for which grants were awarded.
5. Applications for grants, giving details of the plan of the proposed research, may be sent to the secretary of the Institute at any time.

AWARDS BY OTHER BODIES

Scholarships and other awards tenable at the University are also offered by many local authorities including the council of the City of Leeds and the county councils of the North, East and West Ridings of Yorkshire. Information may be obtained from the chief education officer of the authority concerned and from :

Leeds City Council: the Chief Education Officer (higher section),
Education Offices, Calverley Street, Leeds, 1.

West Riding County Council: the Chief Education Officer, Education
Department, County Hall, Wakefield.

North Riding County Council: the Secretary, Education Offices, County
Hall, Northallerton.

East Riding County Council: the Chief Education Officer, East Riding
County Council, Beverley.

State scholarships, some in supplementation of University awards, may be offered by the Ministry of Education.

The 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 exhibitor 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 exhibitor 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.

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BARKER, L., B.Sc., Ph.D., A.R.I.C., 70, Victoria Road, Morley, Leeds		172
BARLOW, A. J. E., M.D., L.R.C.P., M.R.C.S., The Royal Infirmary, Huddersfield		186
BARR, Miss A. M., B.Sc.(Econ.), 1, Grosvenor Terrace, Leeds, 2		206
BARRACLOUGH, F., C.B.E., M.A., Education Offices, County Hall, Northallerton	86, 138, 140	
BARRETT, W., B.A., Doc. de l'Université, 39, Fearnville Grove, Leeds, 8	120, 133	157
BARRITT, Mrs. JOHN, 12, Laurel Bank Court, The Turnways, Leeds, 6	105	
BARTHOLOMEW, Mrs. C. G., 5, The Turnways, Leeds, 6		207
BARTHOLOMEW, Mrs. PHYLLIS L., Thornhills, Breary Lane, Bramhope, Leeds		206
BARTLEY, D. D., B.Sc., Ph.D., 19, Bankfield Grove, Leeds, 4	123	164
BATCHELOR, Miss M. D., The Beacon, Burn Bridge Road, Harrogate		201
BATEMAN, D., LL.B., The University Union, The University, Leeds, 2	69, 93, 104	208
BATES, Miss M., 50, Conference Road, Leeds, 12		188
BATTISON, H., A.I.S.T., 28, Ebor Place, Leeds, 6		193
BATTY, Miss V. M. E., 106, High Street, Morley		208

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BAULCH, D. L., Ph.D., M.Sc., Devonshire Hall, Cumberland Road, Leeds, 6	161
BAXANDALL, H., M.A., 8, Sunny Bank Road, Edgerton, Huddersfield	
	120, 137, 211, 213, 214
BAYLEY, G. A., B.Sc., Thorpe Secondary School, Bradford	140
BEACHCROFT, Major MAURICE, O.B.E., LL.D., M.A., Sun House, Chelwood Gate, Sussex	59
BEAVER, J. FOSTER, O.B.E., J.P., Messrs. J. Beaver & Co., Park Road Mills, Bingley	99
BECK, Miss S., 33, Poole Road, Leeds, 15	207
BEDFORD, Miss L., 28, Burn Bridge Oval, Harrogate	163
BEE, Miss W., 23, Walmsley Road, Leeds, 6	201
BEELEY, P. R., B.Met., Ph.D., F.I.M., 37, Kirkwood Drive, Leeds, 16	125, 133
BEHRENS, EDGAR C., C.B.E., J.P., Colliergate, Bradford	57
BEIGHTON, E., B.Sc., Ph.D., 5, Sedbergh Park, Ilkley	165
BEIGHTON, Mrs. DORIS E., 5, Sedbergh Park, Ilkley	165
BELL, C. J., B.A., Department of Mathematics, The University, Leeds, 2	158
BELL, E., 32, Portland Street, Calverley, Leeds	176
BELL, J. R., B.Sc., 14, Towers Way, Leeds, 6	174
BELL, J. W., B.Sc., Ph.D., 4, Cheltenham Avenue, Ben Rhydding, Ilkley	125, 133
BELL, Miss P., B.A., M.A., 5, Archery Terrace, Leeds, 2	201
BELL, QUENTIN C. S., M.A., Highthorne House, Shadwell Lane, Moortown, Leeds, 17	70, 71, 84, 120, 130, 215
BELL, T., Department of Fine Art, The University, Leeds, 2	120
BELL, W., 7, Redshaw View, Leeds, 12	173
BELLAMY, C. V., B.Sc., 3, Mount Royal, Horsforth, Leeds	123, 131, 137, 138
BELLAMY, R., M.A., 147, Victoria Road, Leeds, 6	122
BELTON, J. W., Ph.D., D.Sc., 10, Montpelier, Cliff Road, Leeds, 6	62, 66, 69, 74, 80, 84, 101, 102, 123, 132, 138, 140, 213, 216
BENFIELD, H., M.A., Harehills County Secondary School, Leeds, 8	86
BENN, E. C., M.B., Ch.B., D.P.H., Seacroft Hospital, Leeds, 14	127, 135
BENN, T. V., B.A., Ph.D., 3, The Turnways, Leeds, 6	120, 130
BENNETT, A. R., M.Sc., M.Inst.Gas E., Messrs. Radiation, Ltd., Radiation House, Birmingham, 6	75
BENNETT, E. W., M.Sc., A.M.I.C.E., 91, Becketts Park Drive, Leeds, 6	125, 134
BENSKIN, Miss M. C., 5, Hartley's Terrace, Thorner, Leeds	178
BERESFORD, Professor M. W., M.A., Moor Croft, Queen's Road, Ilkley	80, 106, 122, 130, 135, 138
BERKIN, Miss S., 26, Mexborough Grove, Leeds, 7	207
BERMEJO MARCOS, M., Dr. en Fil. y Let., 25, Ash Grove, Leeds, 6	120
BERRY, C. L., M.A., Education Offices, 27, King Street, Wakefield	86
BERRY, Mrs. S. H. W. N., Killearn, 20, Victoria Crescent, Horsforth, Leeds	183
BERRY, Major W., Croydon Works, Leeds	79
BERRY, W. R., M.Sc., Ph.D., M.I.Mech.E., F.I.M., F.R.I.C., West Acre, Linton Lane, Linton, Wetherby, Yorks.	172
BEVAN, Miss C. M., M.B., Ch.B., D.C.P., D.T.M. & H., Hartrigg Hotel, Shire Oak Road, Leeds, 6	127
BIBBY, E. E., M.A., Yarlsber, 9, Primley Park Road, Leeds, 17	118, 142
BICKERTON, W. H., M.I.E.(Prac.), 92, Tempest Road, Leeds, 11	168
BIELBY, A. R., M.A., Huddersfield New College, New Hey Road, Huddersfield	141
BIELBY, Miss D., 30, Heathfield Terrace, Leeds, 6	178
BINKS, E., White Lodge, Adel Lane, Leeds, 16	84
BINNS, J., 22, Berkeley Terrace, Leeds, 8	102
BINYON, D. E. F., M.A., Belgravia, Skipton-in-Craven	120, 130, 213
BIRCH, W. N., Montpellier House, Harrogate	57
BIRD, C. L., M.Sc., F.R.I.C., F.S.D.C., 3, Gainsborough Drive, Leeds, 16	125, 132
BIRD, P., M.A., A.M.A., Cartwright Memorial Hall, Bradford, 8	71

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BIRD, R., 4, Lynton Gardens, Harrogate		208
BIRKENSHAW, GEORGE E., C.B.E., F.T.I., Messrs. David Dixon & Son, Ltd., Cardigan Mills, Leeds, 4	99	
BISHOP, T. G., B.A., B.Sc.(Econ.), Ph.D., 35, Reeth Road, Richmond, Yorks.	120, 137	199
BLACK, C. J., B.Sc., B.Litt., Dip.Agric.Econ., N.D.A., 32, Gledhow Wood Grove, Leeds, 8	125	178
BLACK, G. W., M.B., B.S., F.R.C.S., 43, Park Square, Leeds, 1	127, 135	189
BLACK, Miss M. M., M.A., The Girls' Grammar School, Bradford	138, 141	
BLACK, W. P., M.B., Ch.B., M.R.C.O.G., F.R.C.S.E., 112, Ring Road, West Park, Leeds, 16	127	191
BLACKBURN, Miss E. M., M.A., High Brent, Arnside, via Carnforth, Lancs.	118	
BLACKBURN, Alderman GEORGE, F.T.I., J.P., Oakville, Liversedge, Yorks.	99	
BLACKBURN, W. H., M.Sc., Ph.D., M.Inst.F., M.Inst.Gas.E., Secker Villas, Warmfield, near Wakefield		172
BLACKLEDGE, W., F.R.S.A., A.I.B.P., A.R.P.S., Whitegates, 4, White Grove, Leeds, 8		205
BLAIR, J., B.Sc., F.R.I.C., 71, Castellan Avenue, Gider Park, Romford, Essex	59	
BLAMIRE, A., M.A., A.L.A., Top Flat, Ridgefield, North Hill Road, Leeds, 6		201
BLAXTER, K. L., B.Sc., Ph.D., D.Sc., N.D.A., The Hannah Dairy Research Institute, Kirkhill, Ayr		176
BLIGHT, R., M.B., B.S., D.Obst.R.C.O.G., 15, Norfolk Mount, Leeds, 7		181
BLOOD, H., M.B.E., 72, Moor Grange View, Leeds, 16		208
BLOXHAM, Miss JOYCE, M.B.E., B.A., Woodbourne Cottage, behind 20, North Hill Road, Leeds, 6	69, 74, 76, 93, 97, 103, 104, 105, 120, 130, 132, 140, 213	203
BLYTH, Miss I. HELEN M., M.B., Ch.B., D.Obst.R.C.O.G., 33, Oxford Road, Wakefield		193
BOAZ, T. G., M.B.E., M.A., Dip.Agric., 59, Old Park Road, Leeds, 8	125, 132	176
BODDINGTON, W. H., Borough Treasurer, Town Hall, Bridlington	211	
BOGDAN, A., M.D., M.R.C.P.E., D.C.H., Glebe House, The Terrace, Boston Spa, Yorks.		187
BOLTON, L. W., A.C.W.A., A.C.I.S., 13, Moor Park Avenue, Leeds, 6		178
BOND, Miss E. M., St. Andrews, Upper Sutherland Road, Hipperholme, Halifax		187
BOND, J. G., B.A., M.I.Min.E., 18, Woodthorpe Lane, Wakefield	59, 91	
BONSER, Mrs. GEORGIANA M., M.D., F.R.C.P., M.R.C.S., 10, Elmete Court, North Lane, Leeds, 8	95, 127, 135, 211	183
BOOBYER, G. H., Millfield, Millfield Road, Riding Hall, Northumberland	218	
BOOTH, Mrs. B. J., 73, Moorlands Road, Dewsbury		207
BOOTH, C. G., Messrs. Booth Bros., Drighlington	99	
BOOTH, Miss E. M., A.M.I.A., Greenfield House, Bramley, Leeds, 13		186
BOOTH, Miss J. H., Greenways, The Sycamores, Bramhope, Leeds		198
BOOTHMAN, S., 7, Rokeby Gardens, Leeds, 6		206
BORRAS, F. M., M.A., Wansbeck, 9, Elmete Grove, Leeds, 8	108, 120, 130	147
BOSWORTH, Miss EUGENIE M., M.A., 8, Grange Court, Leeds, 6	120, 212	151
BOUFFLER, E. O., Carnegie Physical Training College, Beckett Park, Leeds, 6	86, 140	
BOULBY, M., M.A., Ph.D., 42, Gainsborough Avenue, Leeds, 16	120, 131	147
BOULTWOOD, Miss MYRTLE E. A., M.A., Department of Education, The University, Leeds, 2	86, 120, 130, 140, 211, 212, 213	151
BOWDEN, Mrs. K. M., 2, Coupland Road, Garforth, Leeds		207
BOWEN, T. J., M.A., B.Sc., 4, Tinsill Drive, Leeds, 16	127	180
BOWES, J. H., British Leather Manufacturers' Research Association, Milton Park, Egham, Surrey	219	
BOYD, G. I., M.D., F.R.C.S.E., 59, Weetwood Lane, Leeds, 16	60, 127, 131, 135	179
BOYLE, Miss J. M., 5, Wedgewood Drive, Leeds, 8		203
BOYLE, T. McM., M.B., Ch.B., D.L.O., F.R.C.S., 27, Clarendon Road, Leeds, 2	127, 135	189

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BOYNTON, L. O. J., M.A., Department of History, The University, Leeds, 2	120	148
BRACEWELL, C. C., M.C., M.A., Thornes House School, Wakefield	86	
BRADFORD, B. W., A.R.C.S., B.Sc., D.I.C., Ph.D., F.R.I.C., I.C.I. Ltd., Billingham, Co. Durham	78	
BRADFORD, The Right Rev. THE LORD BISHOP OF, M.A., B.D., D.D., Bishopthorpe, Bradford, 9	62, 66	
BRADLEY, D., B.Sc., Ph.D., A.M.I.Mech.E., 36, Kingsley Avenue, Leeds, 16	125, 133	168
BRADLEY, Miss J. H., 50, Galloway Lane, Bradford, 3		193
BRADLEY, Miss P., Greystones, Bolling Road, Ilkley		193
BRADLEY, R. S., M.A., Sc.D., F.R.I.C., 25, Batcliffe Drive, Leeds, 6	60, 123, 132	160
BRADLEY, Professor W., Ph.D., D.Sc., F.R.I.C., F.S.D.C., 1, Hollin Lane, Leeds, 16	102, 106, 125, 132, 215	175
BRADSHAW, Professor D. B., M.A., M.B., B.Ch., B.A.O., D.P.H., Public Health Department, 25, East Parade, Leeds, 1	85, 106, 125, 135, 215	192
BRADSHAW, L. R. A., B.Sc., Ph.D., 16, Chestnut Avenue, Leeds, 6		184
BRAMALL, Miss B., 4, Henley View, Rawdon, Leeds		200
BRANSON, W. R., M.Sc., M.Inst.Gas.E., Deputy Chairman, West Midland Gas Board, 6, Augustus Road, Edgbaston, Birmingham, 15	75	
BRASS, Miss A. M., 9, Well House Road, Leeds, 8		207
BRATT, D. G., A.T.I., Flat 1, 78, Chapel Lane, Leeds, 6		174
BRAY, Alderman J. A., 10, Royal Terrace, Scar Lane, Milnsbridge, Huddersfield	138	
BRAYSHAW, G. S., B.Sc., Ph.D., A.M.I.E.E., Sen.M.I.R.E., Far View, Creskeld Gardens, Bramhope, Leeds	125, 133	168
BRAYSHAW, L., 62, Marldon Road, Northowram, Halifax		175
BREBNER, Miss L. W., M.A., Lupton Hall, Wood Lane, Leeds, 6	120, 131, 212	147
BREESE, D. I., M.Sc., Temple Moor School, Leeds, 15		140
BREThERICK, Councillor A. R., 57, St. Paul's Street, Leeds, 1		94
BRIGGS, Professor A., B.Sc.(Econ.), M.A., Ingledew Cottage, Cross Ingledew Crescent, Leeds, 8	80, 105, 106, 120, 130, 137, 138	148
BRIGGS, Major DONALD H. CURRER, <i>M.B.E.</i> , M.A., 7, North Hill Road, Leeds, 6	62, 66, 81, 91, 100, 103	
BRIGGS, Mrs. DONALD H. CURRER, J.P., 7, North Hill Road, Leeds, 6	103	
BRIGGS, P. S., Messrs. T. N. & F. H. Briggs (Tanners) Ltd., Victoria Tannery, Waring Street, Leicester	89	
BRINDLEY, J., B.Sc., Ph.D., Devonshire Hall, Cumberland Road, Leeds, 6	123, 133, 205	157
BRISCOE, P. A., B.Sc., Ph.D., F.R.I.C., 10, Wheatlands Road, Harrogate	123, 131, 132, 211	162
BRISTOL, Mrs. R. M., 22, Sherwood Grove, Shipley		166
BRISTOW, Mrs. G. M., 28, Buckstone Oval, Leeds, 17		207
BROADHEAD, E., M.A., B.Sc., D.Phil., F.R.E.S., Birchwood, 26, Mavis Avenue, Leeds, 16	123, 132	163
BROADHEAD, Mrs. E. C., B.Sc., Birchwood, 26, Mavis Avenue, Leeds, 16		163
BROOK, F., F.D.S., H.D.D., R.C.S.(Ed.), L.D.S., 12a, Clarendon Road, Leeds, 2	127, 135	195
BROOK, G., B.Sc., Ph.D., 5, Oakwood Avenue, Birkenshaw, Bradford	125, 134	173
BROOK, N., B.Sc.(Eng.), Ph.D., G.I.Mech.E., A.I.Min.E., 25, Pullan Avenue, Eccleshill, Bradford, 2	125, 134	169
BROOK, P. R., B.Sc., Ph.D., 7, Regent Park Terrace, Leeds, 6		162
BROOKE, Professor C. N. L., University of Liverpool	218	
BROOKE, Mrs. L. G. T., Dott. in Lett., Healey House, Huddersfield		147
BROOKMAN, P. E., B.Com., 15, Stonedale Crescent, Darlington	122, 137	200
BROOKS, B. G., D.H., 144, Otley Road, Leeds, 6		208
BROOMHEAD, R., M.B., Ch.B., F.R.C.S., 20, Clarendon Road, Leeds, 2	127, 135	189
BROTHERTON-RATCLIFFE, GEORGE, B.A., Messrs. Brotherton & Co., Ltd., Brotherton House, Westgate, Leeds, 1	58	

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		<i>Staff List</i>
BROTHWELL, J. F., B.A.(Econ.), 11, Gledhow Park Drive, Leeds, 7	122	154
BROWN, Professor A. J., M.A., D.Phil., 24, Moor Drive, Leeds, 6		
74, 80, 81, 88, 106, 122, 130, 132, 139, 211, 214	154	
BROWN, Miss C., 93, St. Enoch's Road, Wibsey, Bradford, 6	207	
BROWN, D. J. LATHAM, B.A., LL.B., 19, Cardigan Road, Leeds, 6	122	156
BROWN, E. J., O.B.E., B.Com., 24, Hollin Lane, Leeds, 16	118	
BROWN, Miss IDA E., M.A., 5, Grange Court, Leeds, 6	122, 212	155
BROWN, J. C., M.A., Mus.B., F.R.C.O., 62, Ridge Terrace, Leeds, 6	120, 131	150
BROWN, Miss MARY D., A.T.D., M.M.A.A., Flat 2, 5, Cavendish Road, Leeds, 2		189
BROWN, Professor R. F., M.A., Ph.D., Rivington House, Clarence Road, Horsforth, Leeds	106, 120, 130, 211	147
BROWN, T., 7, Leith Street, Leeds, 9	102	
BROWN, W. A., Ripon County Secondary School, Ripon	141	
BROWNE, Emeritus Professor L. E., M.A., D.D., Lucaslands, Highbrook, Ardingly, Sussex	110	
BROWNLIE, Miss A. F., University of Edinburgh Staff Club, Chambers Street, Edinburgh, 1	118	
BROWNRIFF, P. H. A., D.S.O., O.B.E., T.D., Anglo-American Corporation of South Africa, Ltd., 40, Holborn Viaduct, London, E.C.1	82	
BRUMPTON, J., T.D., 32, Cavendish Road, Leeds, 1		208
BRUST, Miss JEAN, B.Sc., Ph.D., 41, Heathfield, Leeds, 16	123, 133	163
BRYANT, G., 51, St. Michael's Road, Leeds, 6		149
BRYCE, Lt.-Col. D. P., O.B.E., J.P., D.L., West Riding Territorial and Air Force Association, 20, St. George's Place, York	90	
BUCHAN, C. W., F.I.M.L.T., Department of Pathology, The University, Leeds, 2		182
BUCHANAN, M. F. G., M.B., Ch.B., F.R.C.P.E., D.C.H., 21, Harrowby Road, Leeds, 16	127	187
BUCKLEY, Lt.-Cdr. C. W., 30, Gledhow Wood Grove, Leeds, 8	234	
BUDWORTH, D. W., B.Sc., Ph.D., 2, Woodland Park Road, Leeds, 6		171
BUJOSA, A., Degree in Mathematics, 5, Woodhouse Cliff, Leeds, 6		160
BULLUS, Wing Commander ERIC E., M.P., Maxted House, Harrow-on-the-Hill, Middlesex	72	
BULMER, Miss F., 38, Grange Park Road, Leeds, 8		203
BUNN, D., B.Sc., Ph.D., 69, The Drive, Leeds, 8	123, 134	161
BURCH, Mrs. JANE E., B.A., Ph.D., Hartwood Lodge, 48, Henconner Lane, Leeds, 7		180
BURCH, P. R. J., M.A., Ph.D., Hartwood Lodge, 48, Henconner Lane, Leeds, 7		192
BURDIN, Miss C. L., 8, Boar Lane, Wakefield		186
BURKE, Miss A. M., 12, Charlton Street, Leeds, 9		178
BURNETT, C., 91, Rookwood Road, Leeds, 9	77	
BURNINGHAM, The Rev. G. W., B.A., M.A., 74, Clarendon Road, Leeds, 2 105, 233		
BURNS, D. G., M.A., Ph.D., 82, Cornwall Road, Harrogate	120, 138, 214	197
BURNS, J., G.M., B.Sc., Ph.D., M.Inst.Gas E., North Thames Gas Board, Monck Street, London, S.W.1	75	
BURNS, Miss M., B.Sc., Flat 7, Boyle Hall, West Ardsley, Wakefield		174
BURR, S., M.Sc., 23, Ethelbert Road, Canterbury, Kent		118
BURROW, R., A.I.M.L.T., 177, Cross Flatts Grove, Leeds, 11		183
BURTON, Emeritus Professor DONALD, Ousel Nest, Blacklands Close, Saffron Waldon, Essex	110, 215, 216	
BURTON, STANLEY H., M.A., Messrs. Montague Burton, Ltd., Hudson Road, Leeds, 9	62, 67, 69	
BURTONSHAW, Miss G., Flat J., Potternewton House, Potternewton Lane, Leeds, 7		178
BURWELL, R. G., B.Sc., M.D., F.R.C.S., 3, Newton Villas, Leeds, 7	127	179
BUTCHER, E. T., M.A., Colne Valley High School, Linthwaite, Nr. Huddersfield		141
BUTCHER, K. L., B.Sc., M.I.Chem.E., F.R.I.C., 11, Fernbank Drive, Baildon, Yorks.	60, 125, 132	171
BUTLER, H. S., 45, Tinshill Road, Leeds, 16		163
BUTLER, J. B., M.Sc., M.Com., 70, Cliff Road, Leeds, 6	125	178

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BUTLER, Mrs. M. MARJORIE, 44, Broomfield Crescent, Leeds, 6		206
BUTLER, R. F., Rossett Grange, Harrogate	57	
BUTTERFIELD, J., B.Sc., 32, Consort Terrace, Leeds, 3		171
BUTTERFIELD, County Alderman R. S., O.B.E., M.C., Highfield, Haxby, York	59, 65, 70, 92, 137	
BUTTERWICK, W., 14, Cross Flatts Terrace, Leeds, 11		175
BUTTERWORTH, E. D., M.A., 3, Cobble Carr, Guisborough, N. Yorks.	120, 137	199
BUTTERWORTH, Miss NORA, 25, St. Michael's Crescent, Leeds, 6		155
BUXTON, J. B., B.Sc., 1, Hesketh Road, Leeds, 5		158
BYWATER, Professor T. L., B.Sc., M.S., 1, Balmoral Terrace, Leeds, 6		
	106, 125, 132, 210, 213, 214, 216, 217	176
CAIN, R. B., B.Sc., Ph.D., 10b, Springwood Road, Leeds, 8		180
CALDIN, E. F., M.A., D.Phil., 5, Claremont Drive, Leeds, 6	123, 132	161
CALDWELL, Miss M. C., B.A., 108, Becketts Park Drive, Leeds, 6	118	
CALDWELL, T. B., M.A., 11, St. Oswalds Road, York	120, 137, 211, 217	199
CAMERON, Miss A. M., Pulverbatch, Homestead, Menston, Ilkley		179
CAMERON, E., B.A., Lyddon Hall, Virginia Road, Leeds, 2	120	152
CAMERON, Professor J. M., M.A., 8, North Parade, Leeds, 16		
	74, 84, 106, 120, 130, 132, 138, 139, 211, 214	148
CAMM, E. H., 28, Woodsley Grove, Leeds, 3		173
CAMPBELL, W., The Training College, Bingley	140	
CANNEVA, Miss P., Manor Farm House, Notton, Wakefield		168
CARDWELL, D. S. L., B.Sc., Ph.D., 11, The Crescent, Leeds, 17	120	149
CARDWELL, Mrs. P. M., B.Sc., 26, Kensington Terrace, Leeds, 6		184
CAREY, Miss M. BRENDA, LL.B., J.P., Weetwood Hall, Leeds, 16	103	204
CARRUTHERS, T. G., B.Sc., A.R.I.C., F.I.Ceram., 16, Carr Manor View, Leeds, 17		
	125	171
CARSON, A. S., M.Sc., Ph.D., 1, Fearnville Avenue, Leeds, 8	123, 134	161
CARTER, B., 496, Throstle Road, Leeds, 10		173
CARTER, C. O., B.A., B.M., B.Ch., M.R.C.P., The Hospital for Sick Children, Great Ormond Street, London, W.C.1		193
CARTER, DICK, M.Sc., Messrs. Strachan and Co. Ltd., Lodgemore and Frome Hall Mills, Stroud	99	
CARTER, Professor G. W., M.A., M.I.E.E., Mem.A.I.E.E., 38, King's Mount, Leeds, 17	84, 86, 106, 125, 132, 210, 212, 215, 217	168
CARTER, County Alderman N., 24, Trenance Drive, Shipley	94	
CASEY, H., A.I.S.T., 6, Ashton Grove, Leeds, 8		168
CASPERSON, Mrs. D. L., 20, Moor Road, Leeds, 6		163
CASS, F. H., B.Sc., 12, Woodland Park Road, Leeds, 6	125	171
CASSIE, A. B. D., C.B.E., M.A., Ph.D., D.Sc., F.Inst.P., Peak Hill, Staircase Lanc, Bramhope, Leeds	99	175
CATCHPOLE, J. R., B.Sc., 101, St. Mark's Road, Leeds, 2		172
CATON, E. E., M.Sc., A.M.I.Mech.E., 64, Water Lane, Leeds, 12	118	
CATTERALL, R. D., M.R.C.S., L.R.C.P., M.R.C.P.(E.), 91, Old Park Road, Leeds, 8		186
CAUNT, Mrs. C. B., 82, Harold Terrace, Leeds, 6		207
CHALLENGER, Emeritus Professor F., B.Sc., Ph.D., D.Sc., F.R.I.C., The Woodlands, Arthington Lane, Poole-in-Wharfedale	110	
CHAMBERLAIN, Professor DIGBY, M.B., Ch.M., F.R.C.S., F.A.C.S., 25a, Park Square, Leeds, 1	106, 127, 135	188
CHAMBERLAIN, N. H., B.Sc., Ph.D., F.T.I., 43, Becketts Park Crescent, Leeds, 6		
	125, 132, 217	173
CHAMBERS, Alderman Mrs. KATHLEEN, C.B.E., LL.D., J.P., The Croft, 34, Plumpton End, Wrose Road, Bradford, 2		86
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CHANCELLOR, THE, Harewood House, Leeds	56, 57, 64, 65, 142	
CHAPMAN, Rev. C. T., Abinger Rectory, Dorking, Surrey	218	
CHAPMAN, G. P., O.B.E., M.C., M.A., B.Sc., Savile Club, 69, Brook Street, London, W.1	118	
CHAPMAN, W. C., M.A., St. John's College, York	86	
CHARLES, A. O. T., M.Sc., Ph.D., 55c, Cardigan Road, Leeds, 6	127	186
CHARLESTON, G. F., 2, Wood Lane, Bowers Row, Woodlesford		159
CHARLTON, Emeritus Professor H. B., C.B.E., M.A., Litt.D., Docteur de Dijon, Priesthorpe, Marple Bridge, near Stockport	61, 72	
CHASE, Miss S. A., S.R.N., Student Health Department, 3, Cavendish Road, Leeds, 1		203
CHATTAWAY, F. W., M.Sc., Ph.D., 27, Primley Park Lane, Leeds, 17		
	95, 127, 132, 135	180
CHESTERS, Miss M. S., B.Sc., M.Sc., Lupton Hall, Wood Lane, Leeds, 6	204	192
CHEW, C., M.Sc., F.R.I.C., Technical College, Leeds, 1	139	
CHIPPINDALE, Miss P. R., 1, Henley Crescent, Rawdon, Leeds		207
CHRISTIAN, R. F., The University, Birmingham	218	
CHRISTOPHERSON, D. G., O.B.E., B.A., D.Phil., S.M., A.M.I.C.E., M.I.Mech.E., The Imperial College of Science and Technology, London, S.W.7	114	
CHRONOWICZ, A. W., Dipl.-Ing., 873, Scott Hall Road, Leeds, 17	125, 133	167
CIZOVA, Miss T., B.A., 5, Oaklea Gardens, Adel, Leeds, 16	120	147
CLAPTON, Professor G. T., M.A., Ridgefield, North Hill Road, Leeds, 6	62, 70, 72, 80, 81, 86, 96, 100, 103, 106, 120, 130, 136, 137, 139, 140, 141, 210, 216	146
CLARK, C. H. D., D.Sc., A.R.C.S., A.R.I.C., D.I.C., 'Peacehaven,' 49, Green Lane, Leeds, 16	118	
CLARK, E. R., B.Pharm., Ph.D., F.R.I.C., 53, The Turnways, Leeds, 6	127	181
CLARK, J. M. P., M.B.E., M.B., Ch.B., F.R.C.S., 29, Park Square, Leeds, 1	127, 135	189
CLARK, Miss J. R., Westbourne, Wellington Hill, Wetherby Road, Leeds, 17		169
CLARKE, G. B., B.Sc.(Econ.), Dip.Agric.Sc., 36, Bracken Edge, Leeds, 8	125	178
CLARKE, W. J., 7, Heathfield, Leeds, 16		206
CLAYE, Professor Sir ANDREW, M.D., F.R.C.S., F.R.C.O.G., Department of Obstetrics and Gynaecology, 28, Hyde Terrace, Leeds, 2	76, 85, 106, 127, 135	191
CLAYSON, D. B., B.A., Ph.D., 86, Ash Road, Leeds, 6	127	184
CLEGG, A. B., M.A., County Hall, Wakefield	59, 138, 139, 140	
CLEGG, B. T., C.B.E., J.P., Hangingroyd House, Hebden Bridge	73	
CLEGG, Miss P. J., The Pastures, Tong, Bradford		207
CLEMON, R. M., Nunroyd House, Yeadon, Leeds		205
CLEWORTH, R., M.A., LL.B., Q.C., Town Hall, Leeds, 1	88	
CLIFFORD, T. N., B.Sc., Ph.D., 51, Rossall Road, Harehills, Leeds, 8		164
CLOTHWORKERS' COMPANY, MASTER OF (Commander Guy D. Latham, R.N.), Clothworkers' Hall, Dunster Court, Mincing Lane, London, E.C.3	59	
COBB, Miss A. E., B.A., 7, Ashwood Villas, Leeds, 6		175
COBB, Miss PAMELA M. S., M.A., Second Floor Flat, 5, Woodsley Terrace, Clarendon Road, Leeds, 2		200
CODD, I., B.Sc., Ph.D., A.I.M., Manby, Green Hill Mount, Leeds, 13	125	172
COE, R. N. C., M.A., Ph.D., 3, Lyddon Terrace, Leeds, 2	120, 131, 214	146
COE, Mrs. V. S., B.A., 3, Lyddon Terrace, Leeds, 2	120	147
COHEN, Professor J., University of Manchester	218	
COLECLOUGH, F. T., A.T.D., F.R.S.A., Bradford Regional College of Art, Great Horton Road, Bradford	86	
COLERIDGE, J. C. G., B.Sc., M.B., Ch.B., 15, Allerton Park, Leeds, 7	127, 135	179
COLLIER, H. J., 9, Gotts Park Crescent, Leeds, 12		149
COLLINGS, C. N., M.A., A.M.I.Chem.E., 5, Alberta Avenue, Leeds, 7	125	171
COLLINS, Mrs. C. DOREEN E., B.Sc.(Econ.), 14, Woodland Park Road, Leeds, 6	122	155
COLLINS, W. G., B.Sc., F.R.G.S., Department of Civil Engineering, The University, Leeds, 2	125	167
COLLINSON, E., M.A., Ph.D., 9, Church Wood Avenue, Leeds, 16	123, 134	161

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NAMES AND ADDRESSES

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COMMAND EDUCATION OFFICER, NORTHERN COMMAND, York	80,	138	
COMMANDANT, No. 1 H.E.C., Hipswell Lodge, Catterick Camp, Yorks.		138	
CONWAY, A. M., LL.B., 82, The Fairway, Leeds, 17		122	156
COOK, G. B., M.A., Ph.D., Lyddon Hall, Virginia Road, Leeds, 2	120,	132	158
COOK, J. B., M.D., M.R.C.P., Ledicot, 49, Hilltop, Newmillerdam, Wakefield			188
COOK, L. G., Ministry of Education, 36-38, Berkeley Square, London, W.7		87	
COOKSON, R., B.Sc., 2, Abbey Avenue, Leeds, 5			172
COOMBER, J. E., M.A., LL.B., Clothworkers' Company, Clothworkers' Hall, Dunster Court, Mincing Lane, London, E.C.3		59	
COOPER, Rev. A. S., B.A., M.A., 3, The Ring Road, West Park, Leeds, 16		233	
COPE, F., B.Sc., M.Agric.Sc., 21, Well Close Place, Leeds, 2			177
CORK, D. J., L.D.S., 10, Park Square, Leeds, 1	127,	135	195
CORNISH, F. H. J., M.A., D.Phil., 26, Brudenell View, Leeds, 6		120	157
COSTON, Mrs. J., 4, Kirkwood Drive, Leeds, 16			201
COULSON, Miss G., 9, North Hill House, North Hill Road, Leeds, 6			148
COULTAS, Miss M. E., 21, Hartley Grove, Leeds, 6			201
COUSIN, Mlle. R., L. ès L., Oxley Hall, Leeds, 16		204	146
COUSINS, Councillor J., 1, Kelmore Drive, Bradford, 8		60	
COWARD, M. P., 27, Somerville Green, Leeds, 14			176
COWLING, D. G., M.B.E., J.P., 17, Shire Oak Road, Leeds, 16	62,	67,	123
COWLING, Miss M. A., 19, Hollin Gardens, Leeds, 16			162
COWLING, Professor T. G., M.A., D.Phil., F.R.S., 19, Hollin Gardens, Leeds, 16			
	78, 82, 106, 130, 132, 214, 217		157
COX, BERNARD K., Messrs. Jonathan Knowles & Cox, Lloyds Bank Chambers, Bradford		88	
COX, D. R., Birkbeck College, University of London			219
COX, J. W., B.A., 9, West Mount Street, Banks Avenue, Pontefract	120, 131, 213		148
CRABTREE, C. H., Messrs. R. W. Crabtree & Co. Ltd., Water Lane, Leeds, 11		79	
CRACKNELL, Miss VERA, Adastra, 61, Easterly Road, Leeds, 8			146
CRAIG, Professor W. S., B.Sc., M.D., F.R.C.P.E., F.R.C.P., F.R.S.E., Mellendean, 22, Helmsley Drive, Leeds, 16	85, 86, 94, 106, 127, 135, 212		187
CRANE, Miss C. B., M.B., B.S., D.P.H., Health Department, 9, St. Leonard's Place, York		73	
CRAPPER, G. D., B.Sc., Ph.D., 29, St. Chad's Rise, Leeds, 6		123	158
CREEDY, A. J., B.A., M.A., Exmoor, 18, Dunstarn Lane, Adel, Leeds, 16		120	145
CREWS, Mrs. CYNTHIA M., M.A., Ph.D., 16, Grange Court, Leeds, 6			
	120, 131		146
CROCKATT, DOUGLAS, 150, Stoney Rock Lane, Leeds, 9	62, 64, 67, 81		
CROSBY, T. S., B.Sc.(Hort.), Flat 210, Cumberland Road, Leeds, 6			164
CROSLAND, Mrs. F., 20, Manston Rise, Leeds, 15			207
CROSLAND, Miss J. M. E., Birkby, Northfield Road, Dewsbury			203
CROSS, C. D., A.R.C.A., A.T.D., College of Art, Leeds, 1		86, 140	
CROSS, E. J., B.Sc., Ph.D., F.R.I.C., 11, Harlow Crescent, Harrogate		118	
CROTTY, P., LL.B., 5, Grovehall Parade, Leeds, 11		60, 61	156
CROWSON, Miss S. T., 434, Spen Lane, Leeds, 16			207
CROWTHER, E., C.B.E., M.Eng., M.I.C.E., M.Inst.Gas E., 30, Grainger Street, Newcastle-upon-Tyne		75	
CRUICKSHANK, D. W. J., M.A., B.Sc.(Eng.), Ph.D., 12, West Parade, Leeds, 16			
	78, 108, 123, 132		160
CRUICKSHANK, Mrs. MARJORIE A., B.A., M.A., Ph.D., 12, West Parade, Leeds, 16			
	120		151
CRUICKSHANK, Professor R., University of Edinburgh	219, 220		
CULL, W. E., 20, Ashton Grove, Leeds, 8			159
CULLEN, W. A., B.Com., 4, Weetwood Road, Leeds, 16			206
CUMMING, A. L., 24, The Rowans, Bramhope, Leeds			208
CURRAN, Professor R. C., St. Thomas's Hospital Medical School, London, S.E.1			
	220		

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CURRIE, D. W., M.D., Ch.M., F.R.C.S., F.R.C.O.G., 30, Park Square, Leeds, 1		
	127, 135	191
CURRIE, Mrs. P., B.A., The Manor House, Colton Road, Whitkirk, Leeds, 15		160
CURRIER, G. E., O.B.E., M.I.Mech.E., M.Inst.Gas E., North Eastern Gas Board, Bridge Street, Leeds, 2		
	75	
CURRY, C., B.Sc., Ph.D., A.Inst.P., 22, Wensley Drive, Leeds, 7	123, 132	158
CURTIS, S. J., T.D., M.A., Ph.D., 31, Hayes Close, Wimbourne, Dorset	90, 118	
CZEKALOWSKI, J. W., M.D., D.T.M.&H., M.Sc., 9, Sefton Avenue, Leeds, 11	127	183
CZERKAWSKI, J. W., B.Sc., Flat D, 126, Belle Vue Road, Leeds, 3		185
DAGLEY, S., M.A., B.Sc., D.Sc., F.R.I.C., 87, Talbot Road, Leeds, 8	127, 132	180
DAINTON, A. H., M.A., 57, Cliff Road, Leeds, 6	118	
DAINTON, Professor F. S., M.A., Sc.D., F.R.I.C., F.R.S., 16, North Parade, Leeds, 16		
	66, 73, 81, 84, 97, 101, 103, 105, 106, 123, 132, 135, 139	161
DALBY, G. R., M.A., 142, Green Park Road, Halifax	120, 137	199
DALDY, Miss D. M., M.Sc., A.B.Ps.S., Czar Street, Leeds, 11	140	
DALLEY, J., B.Sc., Headley Hall Farm, Tadcaster	125	176
DALLEY, R. A., F.R.I.C., Leeds City Analyst, Market Building, Leeds, 1		193
DALTON, D. C., B.Sc. (Agric.), Ph.D., 207, Green Lane, Leeds, 16		177
DANBY, J. P., B.Sc., Ph.D., National Leatherseller's College, Tower Bridge Road, Bermondsey, London, S.E.1	89	
DAUBNEY, F. R., School of Chemistry, The University, Leeds, 2		162
DAVENPORT, W. A., M.A., 78, Victoria Road, Leeds, 6	120	146
DAVEY, F. W., B.A., Westfield, Kelcliffe Lane, Guiseley, Leeds		206
DAVEY, P. M., 99a, Roundhay Road, Leeds, 8		170
DAVIDSON, Professor J. N., University of Glasgow	220	
DAVIDSON, P. R., L.D.S., H.D.D., R.F.P.S., 5, Firs Avenue, Harrogate	127	194
DAVIDSON, R. S., 3, Montagu View, Leeds, 8		162
DAVIES, C. L., F.C.A., c/o Whitfield & Co., Martins Bank Chambers, Park Row, Leeds, 1	73	
DAVIES, D. I., B.Sc., Ph.D., 12 Manor Terrace, Leeds, 6	123	162
DAVIES, G. A., M.A., D.Phil., 21, Moor Drive, Otley	120	148
DAVIES, Professor H., Regents Park College, Oxford	218	
DAVIES, M. R. R., LL.M., Ph.D., D.P.A., Brow View, 81, Green Head Lane, Utley, Keighley	122, 139, 212	156
DAVIS, Miss C., 117, Potternewton Lane, Leeds, 7		207
DAVIS, H. J., M.A., The Grammar School, Whitby	62	
DAVIS, Miss J. E., B.Sc., 30, Woodhall Rise, Leeds, 16		184
DAVIS, L. H., 15, Fir Tree Green, Leeds, 17	102	180
DAVIS, W., 79, Headingley Avenue, Leeds, 6	102	168
DAVISON, Professor J. A., T.D., M.A., 76, St. Michael's Road, Leeds, 6		
	86, 90, 106, 120, 130, 138, 139, 140, 214	144
DAWS, P. P., B.A., Ph.D., 33, Lyddon Terrace, Leeds, 2	120	165
DAWSON, E., B.Sc., N.D.A., N.D.D., 4, Lyddon Terrace, Leeds, 2		178
DAWSON, Mrs. E., 105, Armley Ridge Road, Leeds, 12		207
DAWSON, J. B., B.Sc., Ph.D., 26, Harecroft Road, Otley		192
DAWSON, Alderman J. L., M.A., J.P., Fixby House, Huddersfield	60, 65, 86	
DAWSON, R., 267, Spen Lane, Leeds, 16		206
DAY, T. D., M.A., M.D., Scar Cottage, Nessfield, Ilkley	127, 135	183
DEAN, A., M.I.C.E., Chief Civil Engineer, North Eastern Division, British Railways, York	69	
DEAN, W. H., M.C., B.A., Messrs. Sanderson Murray & Elder, Ltd., Bowling Mills, Bowling Old Lane, Bradford	99	
DEEN, Miss B., 357, Dewsbury Road, Wakefield		200
DEERING, Miss O. E., 24, Hyde Terrace, Leeds, 2		191

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DE HITA, Señorita P., Licda. en Fil. y Let., 25, Ash Grove, Leeds, 6		148
DE IRIZAR, A., M.A., 25, Ash Grove, Leeds, 6	119	
DELL, C. C., B.Sc.(Eng.), A.R.S.M., A.M.I.M.M., Cranham, 7, Elmete Grove, Leeds, 8	125, 134	169
DENHAM, N. H., B.Com., Lillands, Stockhill Street, Dewsbury	138	
DENHAM, W. S., B.Sc., D.Sc., F.R.I.C., 3, North Parade, Leeds, 16		175
DENISON, Miss J. M., St. Elmo, Barton Lane, Yeadon, Leeds		164
DENNISON, Miss P., 5, West End Grove, Horsforth, Leeds		201
DENNY, Professor J. R., M.B.E., M.A., Mus.B., 283, Otley Road, Leeds 16		
	86, 106, 120, 130, 210	149
DENT, F. J., O.B.E., Ph.D., D.Sc., M.Inst.Gas E., Midlands Research Station, Wharf Lane, Solihull, Birmingham		171
DENT, H. C., B.A., F.R.S.A., Institute of Education, The University, Leeds, 2		197
DENTON, Miss J. L., 483, Barnsley Road, Sandal, Wakefield	201	197
DE PAULA, F. C., T.D., F.C.A., F.C.W.A., Messrs. Robson Morrow, 59, Cavendish Street, London, W.1	78	
DE RUSSETT, A. W., M.A., 25, Park Drive, Harrogate	120, 137	199
D'HAUSSY, Mlle. C., Lès L., Department of French, The University, Leeds, 2		146
DICK, O. H. J., B.A., Laurel House, High Street, Boston Spa, Yorks.	216	203
DICKENS, Professor F., Middlesex Hospital Medical School, London	219	
DICKINSON, F. D., 124, Oak Road, Morley, Leeds		175
DICKINSON, G. C., M.A., Department of Geography, The University, Leeds, 2		
	120	149
DICKINSON, Miss J., 239, Armley Ridge Road, Leeds, 12		174
DICKINSON, Miss M., B.A., Helredale, Wetherby Road, Bardsey, Leeds		157
DICKINSON, Professor R. E., M.A., Ph.D., 4, Dunstarn Gardens, Leeds, 16		
	82, 106, 120, 132, 214	149
DIGBY, Mrs. W. M., 93, Moseley Wood Drive, Leeds, 16		207
DINEEN, T., 2, Rosemont Road, Leeds, 13		196
DIONISOTTI, Professor C., Bedford College, University of London	218	
DIVINE, Miss C. G., 8, Fearnville Mount, Leeds, 8		155
DIVINE, T. A., M.B., Ch.B., 8, Fearnville Mount, Leeds, 8	179	194
DIXEY, F., C.M.G., O.B.E., D.Sc., M.I.M.M., F.R.S., Windyridge, Maudlin Close, Steyning, Sussex	82	
DIXON, Miss S., 21, Talbot Rise, Leeds, 17		146
DIXON-LEWIS, G., M.A., D.Phil., 230, West Park Drive (West), Leeds, 8		172
DOBRÉE, Emeritus Professor B., O.B.E., M.A., Doc. de Dijon, 15, Pond Road, Blackheath, London, S.E.3	110	
DOBSON, E. J., Jesus College, Oxford	218	
DOBSON, K., 252, Wood Lane, Rothwell, Leeds		191
DODD, C. H., B.A., M.A., Department of Social Studies, The University, Leeds, 2		
	122	155
DODD, E. E., Briarnook, Gilstead Lane, Bingley	80, 138, 139	
DODD, J. H., Carnegie College of Physical Education, Beckett Park, Leeds, 6		
	140	
DODD, Professor J. M., B.Sc., Ph.D., Department of Zoology, The University, Leeds, 2	73, 106, 123, 132, 135	163
DOLBEY, Mrs. D. R. D., Divisional Staff Officer, I.C.I. Ltd., Fibre Division, Hookstone Road, Harrogate	69	
DORKIN, Miss CATHERINE M. C., M.Sc., Ph.D., 17, Temple Road, Bishopthorpe, York		174
DOUGILL, Miss M. W., B.Sc., Ph.D., 5, Frazer Avenue, Horsforth, Leeds		160
DOUGLAS, Professor D. C., M.A., F.B.A., The University of Bristol, Bristol, 8	112	
DOUGLAS, J., M.D., D.P.H., Town Hall, Bradford	92	
DOUTHWAITE, R. M., B.Sc., 2, Parkside Crescent, Leeds, 6	125	172
DOWSON, D., B.Sc., Ph.D., A.M.I.Mech.E., 43a, Farrar Lane, Leeds, 16	125	168
DOYLE, Miss M., B.A., 38, Grayswood Crescent, Holme Wood, Bradford, 4		203

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DOYLE-DAVIDSON, W. A. G., B.A., Newlathes Manor House, Horsforth, Leeds	
	71, 120, 130 145
DRESSLER, A., B.A., 9, Chelwood Avenue, Leeds, 8	120 147
DRURY, T., M.Sc., 18, Conference Place, Leeds, 12	171
DRY, F. W., D.Sc., 9, Canterbury Drive, Leeds, 6	174
DRYHURST, J., B.A., 4, Shaw Lane, Leeds, 6	120 146
DUFFY, A. E. P., B.Sc.(Econ.), Ph.D., 22, Bennetthorpe, Doncaster	120, 137, 138 199
DUGGAN, F. H., 34, Lavinia Street, Leeds, 7	175
DUGGLEBY, Miss A. M., 187, Hyde Park Road, Leeds, 6	207
DUGGLEBY, J. C., B.Sc., The Oaklands, Long Causeway, Leeds, 16	192
DUKES, The Rev. J., S. J., 25, Clarendon Place, Leeds, 2	233
DUNHAM, P. G., B.Sc., 9, Hessle Mount, Leeds, 6	172
DUNN, Miss M., Bretton Hall, Bretton, Wakefield	86 140
DUNNINGTON-JEFFERSON, County Alderman Lt.-Col. Sir John, Bt., D.S.O., LL.D., D.L., Thicket Priory, Thorganby, York	60, 65 118
DURDEY, C. G., F.I.S.T., Flat 3, 146, Otley Road, Leeds, 16	62, 65 179
DURRANT, Alderman N. W., 1459, Thornton Road, Bradford	159
DURWARD, Professor A., M.D., F.R.S.E., 7, Grange Court, Leeds, 6	
56, 62, 65, 72, 76, 81, 84, 85, 90, 94, 98, 102, 104, 105, 106, 127, 132, 135, 142	
DUTTA ROY, S. K., M.Sc., Ph.D., 16, Fallowfield Avenue, Leeds, 7	
DYDE, J. H., O.B.E., M.Sc., M.I.Chem.E., M.Inst.Gas E., Eastern Gas Board, 2, The Abbey Garden, London, S.W.1	75
DYKES, P., 59, Pinderfields Road, Wakefield	138
EALLES, Mrs. B., Barnside, Breary Lane East, Bramhope, Leeds	203
EARL, D. C., M.A., Ph.D., 26, Parklands, Bramhope, Leeds	120 144
EARL, G., 13, Dow Terrace, Leeds, 11	102
EARNSHAW, W. E., 4, Winnipeg Place, Leeds, 7	169
EATOUGH, T., Messrs. Eatough Ltd., Earl Shilton, Leicester	89
EAVES, G., B.Sc., Ph.D., 230, Washway Road, Sale, Cheshire	184 183
EDUCATION OFFICER, H.Q., Fighter Command R.A.F., Stanmore	138
EDWARDS, Miss E., B.A., Department of Adult Education, Mornington Villa, Bradford	200
EDWARDS, G. F., M.B.E., M.B., B.S., M.R.C.P., Hill Side, Kirby Overblow, Harrogate	127 186
EDWARDS, Emeritus Professor W. M., M.C., M.A., 43, Cumnor Hill, Oxford	110
EGAN, Miss C. B., 12, Back Woodstock Street, Leeds, 2	207
ELIOT, T. S., O.M., A.M., D.Litt., Litt.D., LL.D., D. ès L., D.Phil., D.Lit., 24, Russell Square, London, W.C.1	83
ELLIOT, F., M.Ed., B.Sc., A.K.C., Huddersfield Training College, Huddersfield	86, 140
ELLIOTT, G. A., Ph.D., School of Chemistry, The University, Leeds, 2	161
ELLIOTT, J. H., M.Sc., 15, Wesley Street, Cleckheaton	171
ELLIS, Sir CHARLES, The Gas Council, 1, Grosvenor Place, London, S.W.1	219
ELLIS, Councillor F., 153, Spring Hall Lane, Halifax	62, 65, 139
ELLIS, M., M.A., M.B., B.Chir., F.R.C.S., L.R.C.P., D.T.M.&H., Charville, Hobblerley Lane, Leeds, 17	127, 135 189
ELLIS, S., M.A., 11, Balbec Avenue, Leeds, 6	120 146
ELLIS, W., General Secretary, City of Leeds Y.M.C.A., 35, Albion Street, Leeds, 1	105
ELSLEY, F. W. H., B.Sc.(Agric.), Dip.Agric., Department of Agriculture, The University, Leeds, 2	177
ELY, C., 152, Skipton Road, Harrogate	196
ENGLAND, C. N., A.I.B.P., 90, Spen Approach, Leeds, 16	180
ENGLISH, C. E., Yorkshire Council, British Empire Cancer Campaign, 5, Park Square, Leeds, 1	73

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EULER, Miss KATHLEEN M., 2, Sunnyside, Baildon, Yorks.	174
EVANS, D. HYWEL, A.M., M.A., B.Sc., Devonshire Hall, Cumberland Road, Leeds, 6	97, 103, 105, 123, 205 157
EVANS, Miss J. A., B.A., Girls' Grammar School, Keighley	141
EVANS, P. R., Department of Child Health, Guy's Hospital, London, S.E.1	220
EVANS, Professor R. H., C.B.E., D.Sc., D.ès Sc., Ph.D., M.I.C.E., M.Am.Soc. C.E., M.I.Mech.E., M.I.Struct.E., Dilwyn, 22, St. Anne's Road, Leeds, 6	167
70, 75, 77, 78, 80, 84, 89, 91, 96, 100, 102, 106, 125, 132, 210, 217	118
EWLES, J., M.A., St. Richard's Way, Aldwick, Bognor Regis, Sussex	142
EXLEY, C. F., B.A., M.Ed., 17, Ayresome Avenue, Leeds, 8	62, 66
EXLEY, K. A., M.D., D.Obst. R.C.O.G., 48, Westminster Crescent, Burn Bridge, Harrogate	127, 135 181
EYRE, S. R., B.Sc., Ph.D., 7, Edgbaston Close, Alwoodley Park, Leeds, 17	120, 131 149
FARQUHAR, J. B., M.B., Ch.B., F.R.C.S., F.R.C.O.G., 31, Park Square, Leeds, 1	127 191
FARRAR, Miss M., 14, Ridgeway Terrace, Leeds, 6	172
FARRINGTON, G. H., M.B., Ch.B., Department of Anatomy, The University, Leeds, 2	127 179
FARROW, Mrs. E. M., A.F.T.Com., 23, Sandringham Drive, Leeds, 17	150
FATTORINI, J., M.B.E., The Pines, Parish Ghyll Drive, Ilkley	94
FELTHAM, P. A., M.Sc., Ph.D., D.Sc., F.Inst.P., 23, Stainburn Drive, Leeds, 17	125, 133, 195 172
FENBY, E., North Riding Training College, Filey Road, Scarborough	140
FENWICK, Miss R. E., Washburn House, Creskeld Lane, Bramhope, Leeds	188
FERGUSON, A. E., M.A., 15, The Avenue, Leeds, 8	142
FERRAR, Miss A. M., B.Sc., 146, Otley Road, Leeds, 16	149
FEVERSHAM, The Rt. Hon. THE EARL OF, D.S.O., D.L., Nawton Tower, Nawton, Yorkshire	56, 57, 65, 81
FIELD, Miss K. M., M.A., A.L.A.M.(Eloc.), 169, Otley Road, Leeds, 6	152
FILLINGHAM, Miss D., 9, Milton Avenue, Sprotborough Road, Doncaster	205
FINEGAN, County Alderman J., 76, Birchington Avenue, Grangetown, Middlesbrough	59, 61
FINLAY, S. E., M.B., M.R.C.P., Laburnum Cottage, Wike, Leeds, 17	216 202
FINNEGAN, Miss M., B.Sc.(Econ.), Weetwood Hall, Leeds, 16	122, 204 155
FINNEGAN, Miss V. M., B.Sc., 7, Bull Royd Drive, Bradford, 8	182
FIRTH, J. DIGBY, M.A., F.S.A., Wenduyn, 347, Otley Road, Leeds, 16	205
FIRTH, Miss M., 4, Linden Close, Chickenley, Dewsbury	207
FISHER, Mrs. A. M., Flat 4, 11, Lyddon Terrace, Leeds, 2	165
FISHER, Mrs. J., 9, Morris Lane, Leeds, 5	182
FITTON, Wing Commander A. KNOWLES, Knowles Lodge, Appletreewick, Skipton-in-Craven	90
FITZGERALD, Professor P. J., M.A., Bedford House, 201, Oakwood Lane, Leeds, 8	106, 122, 130 156
FITZPATRICK, County Councillor Mrs. LAURA I., Grove House, Batley	61
FLAENDER, R.M.H., L.ès L., Department of French, The University, Leeds, 2	146
FLEMING, Mrs. M. T., M.Ed., Bretton Hall, Bretton, near Wakefield	140
FLETCHER, G., 44, Princess Crescent, Dewsbury	173
FLETCHER, J. K., 4, Moorland Terrace, Leeds, 2	77
FLINT, Miss F. OLGA, B.Sc., Ph.D., 12, Cromer Terrace, Leeds, 2	125, 130, 133 176
FLINT, Miss H., 23, Landshaw Crescent, Leeds, 10	178
FOGARTY, Professor M.P., University College of South Wales, Cardiff	218
FOGGITT, P., M.B., Ch.B., 5, Spring Wood Road, Rawdon, Leeds	127 179
FONER, H.A., B.Sc., 28, North Grove Rise, Leeds, 8	171
FORBES, R., D.F.C., B.Com., A.A.C.C.A., 102, Becketts Park Drive, Leeds, 6	206
FORD, R. E., M.D., F.R.C.P., Ministry of Health, Greek Street Chambers, Leeds, 1	92
FORSTER, G. C. F., B.A., 16, Rothbury Gardens, Leeds, 16	120, 131 148

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FOSTER, Miss D. M., B.Sc., The Training College, Ripon	140		
FOSTER, J., M.A., M.D., F.R.C.S., 17, North Hill Road, Leeds, 6	127, 135	189	
FOUNTAIN, J. R., M.D., M.R.C.P.E., Lydget, Shann Lane, Utley, near Keighley	127	185	
FOWLER, F. J., B.A., Ph.D., Dunherne, St. Andrew's Avenue, Morley, Leeds	69, 108, 120, 130, 132, 138, 142, 210, 211, 213	149	
FOWLER, Miss J. E. H., B.A., A.L.A., Oxley Hall, Far Headingley, Leeds, 16	204	201	
FOWLER, N. H., F.R.I.B.A., Lloyds Bank Chambers, Vicar Lane, Leeds, 1	70		
FOWWEATHER, Emeritus Professor F. S., M.D., M.Sc., D.P.H., F.R.C.P., F.R.I.C., Bavan, Cross Lane, Newton, West Kirby, Cheshire	110		
FOX, Miss E. M., B.A., 4, Beech Avenue, Horsforth, Leeds		206	
FOX, Councillor F., J.P., 13, Cedar Road, Chickenley, Dewsbury	62, 66		
FOX, J. A., B.Sc., A.M.I.C.E., 5, Southfield Avenue, Leeds, 17	125	167	
FRANK, F., B.S., M.S., Ridgeway House, Cumberland Road, Leeds, 6		174	
FRASER, J. A., M.B., Ch.B., F.R.C.S., County Hall, Northallerton	92, 94		
FREI, Miss E., Dr.Sc.Nat., 99, Royal Park Avenue, Leeds, 6	123, 133	164	
FRENCH, Mrs. J. A., 4, Leeds Road, Harrogate		201	
FRIEND, J. F., M.A., B.Sc., Bretton Hall, Bretton, Wakefield	86, 140	211	
FRYER, G. M., B.Sc., 35, Woodlands Lane, Leeds, 7		171	
FURBER, M. J., B.Sc.(Agric.), Dip.Agric., Department of Agriculture, The University, Leeds, 2		177	
GALBRAITH, Miss L., Croft Hall, Hyde Terrace, Leeds, 2		205	
GALLIVAN, J. M., 506, York Road, Leeds, 9		173	
GALTRY, Miss J., The Library, The University, Leeds, 2		202	
GANDY, R. O., M.A., Ph.D., 44, Clarendon Road, Leeds, 2	123, 133	157	
GARLAND, H. G., T.D., M.D., F.R.C.P., 43, Park Square, Leeds, 1	127, 135	186	
GARNETT, FRANCIS W., B.E.M., Messrs. G. Garnett & Sons, Ltd., Apperley Bridge, Bradford	99		
GARRAD, K., M.A., Ph.D., 36, St. Martin's Avenue, Leeds, 7	120, 131	148	
GARRICK, F. J., M.A., Ravenswood, 17, Hookstone Chase, Harrogate	123, 132	160	
GARRY, Professor R. C., M.B., D.Sc., F.R.C.P., The University of Glasgow, Glasgow, W.2	219, 220		
GARSDIE, J. E., B.Sc., Ph.D., M.Inst.F., 7, Haigh Wood Crescent, Leeds, 16	125, 132, 212, 213	170	
GARSDIE, Miss J. V., 4, Clarendon Place, Leeds, 2		202	
GASH, Professor N., M.A., B.Litt., The Department of History, The University, St. Andrews	112		
GASKIN, A. R. J., M.A., B.Sc., F.G.S., A.M.I.M.M., 250, Stainbeck Lane, Leeds, 7	123, 134	164	
GAUNT, Mrs. M., 5, Windsor Terrace, Gildersome, Leeds		207	
GAUNT, Miss P. A., 16, Kingswood Crescent, Leeds, 8		196	
GAUNT, P. B., 2, St. James Walk, Horsforth, Leeds		193	
GAVIN, Professor M. R., University of North Wales, Bangor		219	
GAWLER, R., M.Sc., F.R.I.C., 11, Cliff Lane, Leeds, 6	80, 138, 142		
GAWTHORPE, Brigadier J. B., C.B.E., T.D., The Brow, Creskeld Lane, Bramhope, Leeds	90		
GEE, D. J., M.B., B.S., 40, Moseley Wood Green, Leeds, 16	127	193	
GEORGE, The Rev. A. RAYMOND, B.A., M.A., B.D., Lathbury House, Wesley College, Leeds, 6	120	150	
GEORGE, E. L., 112, The Oval, Leeds, 14		196	
GIBSON, N. H. E., B.Sc., Ph.D., 77, Shipley Fields Road, Shipley, Bradford	125, 133	178	
GILCHRIST, Lt.-Col. D., Old Timbers, Bury Road, Dearton, Newmarket, Sussex	91		
GILHAM, C. W., B.Sc., M.A., 24, St. Chad's Avenue, Leeds, 6	118		
GILL, Miss B. M., 1, Norwood Terrace, Leeds, 6		155	

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GILL, Alderman W., J.P., The Mayor's Parlour, Town Hall, Barnsley	60
GILLIES, Professor A., M.A., Dr.Phil., Gates House, Ripley Road, Knaresborough	
107, 120, 130, 210	147
GILLIES, Professor M. M., University of Hull	218
GILPIN, A., F.R.P.S., 1, Claremont Villas, Clarendon Road, Leeds, 2	208
GILYARD, Miss E. J., 4, Derwentwater Grove, Leeds, 6	191 187
GILYARD, Mrs. H. M., 4, Derwentwater Grove, Leeds, 6	207
GLASS, Professor D. V., London School of Economics and Political Science, University of London	219
GLAZEBROOK, Colonel A. R., M.C., T.D., B.A., Messrs. Dibb, Lupton & Co., 6, Butt's Court, Leeds, 1	62, 67, 88, 90
GLEN, Miss E. M., Ilkley College of Housecraft, Wells Road, Ilkley	86, 140
GLOSSOP, F. G., M.Eng., North Western Division, National Coal Board, 40, Portland Street, Manchester, 1	91
GLOVER, G. N., LL.B., 6, East Parade, Leeds, 1	156
GOAD, JOHN F.E., O.B.E., Merstham Lodge, Merstham, Surrey	59, 89
GOLDIE, W., M.A., M.B., Ch.B., F.R.C.P., St. James's Hospital, Leeds, 9	127 181
GOLDMAN, L., B.Sc., Ph.D., A.R.I.C., Messrs. E. & J. Richardson, Ltd., Elswick Leather Works, Newcastle-upon-Tyne, 4	89
GOLIGHER, Professor J. C., Ch.M., F.R.C.S., Orchard Hill, Linton, Wetherby	85, 107, 127, 135
GOMERSALL, Mrs. F. M., Keldholme, Linton, Wetherby	188
GOODALL, County Alderman R. N., Willerby Lodge, Staxton, Scarborough	191
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GOODBURN, Miss G. M., B.Sc., 22, Fitzroy Drive, Leeds, 8	183
GOODFELLOW, J., M.R.S.I., A.M.I.S.E., 43, Jackson Avenue, Leeds, 8	193
GOODHAND, Miss A. D., 58, Davies Avenue, Leeds, 8	206
GOODIER, J., B.Sc., Ph.D., Eton College, Windsor	197
GOSDEN, P. H. J., M.A., Ph.D., Devonshire Hall, Cumberland Road, Leeds, 6	
120	151
GOTTSCHALK, H. B., M.A., Ph.D., 6, Hollin Lane, Leeds, 16	120 144
GOUGH, B., The Regal Hotel, Oxford Street, Harrogate	191
GOUGH, Emeritus Professor C. E., Ph.D., 222, Newton Road, Torquay	112
GRACE, J. D., B.A., M.S., 24, Moorland Road, Leeds, 2	160
GRAHAM, G. N., B.Sc., Ph.D., 3, North Mead, Bramhope, Leeds	165
GRAHAM, The Rev. Father JONATHAN, C.R., M.A., College of the Resurrection, Mirfield	61
GRAHAM, The Rev. Father N., C.R., B.A., Hostel of the Resurrection, Springfield Mount, Leeds, 2	205
GRANT, Professor W. D. B., M.A., D.Phil., F.R.S.L., Manna Ash, 228, High Street, Boston Spa	107, 120 145
GRAY, G., LL.B., 11a, Austhorpe Lane, Leeds, 15	142
GRAY, H., B.A., Education Offices, Ramsden Street, Huddersfield	86
GRAY, P., M.A., Ph.D., 54, Moor Grange View, Leeds, 16	123, 132 161
GRAY, W., 4, Wolesey Place, Cambridge Road, Leeds, 7	159
GREAVES, Mrs. M. J., 1, Stranmore Road, Leeds, 4	182
GREENIK, Professor E., M.Sc.(Econ.), Little Grange, Breary Lane East, Bramhope, Leeds	64, 66, 104, 107, 122, 130, 139, 216 155
GREEN, A. T., C.B.E., D.Sc., Newstead, St. Anthony's Drive, Westlands, Newcastle, Staffs.	171
GREEN, Professor H. N., M.A., M.Sc., M.D., Lumby Hall, South Milford, Yorks.	85, 107, 127, 135, 216 183
GREEN, The Rev. L. C., M.A., B.D., Ph.D., 3, Ashwood Terrace, Leeds, 6	233
GREENHALGH, T., Flat 1, Eccleston Court, Kirkstall Lane, Leeds, 6	209
GREGORY, J. C., B.Sc., F.R.I.C., The Mount Hotel, Clarendon Road, Leeds, 2	148
GREGORY, W. C., B.Sc., A.R.S.M., A.M.I.M.M., Rosemary Cottage, High Street, Boston Spa	123, 134 164

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GREIG, D., B.Sc., Ph.D., 20, Hyde Terrace, Leeds, 2	123	159
GRIFFIN, T. F., 7, Ash Grove, Leeds, 6		175
GRIFFITH, J. R., M.A., F.H.A., 36, Wetherby Road, Leeds, 8	137	200
GRIMTHORPE, The Right Hon. The Lord, T.D., Easthorpe Hall, Malton, Yorks. 58		
GRINT, L. A., M.A., 17, Woodlands Drive, Harrogate		202
GRIST, W. R., O.B.E., B.Sc., 12, Ramshill Road, Scarborough	118	213
GROSBERG, P., M.Sc.(Eng.), Ph.D., 35, Henconner Lane, Leeds, 7	125, 134	173
GROSSMAN, J., B.A., Department of Social Studies, The University, Leeds, 2	122	155
GROUNDS, A., B.Sc.(Tech.), A.M.C.T., M.I.Min.E., F.Inst.F., The Coppee Co. (Great Britain) Ltd., Coppee House, 140, Piccadilly, London, W.1		169
GROVES, W. E., A.C.A., Anglo-American Corporation of South Africa, Ltd., 40, Holborn Viaduct, London, E.C.1		82
GUEST, Miss F. C., M.A., West Leeds High School for Girls, Leeds, 12	140	
GUNTREP, The Rev. H. J. S., B.A., B.D., Ph.D., F.P.Ps.S., 20, Montagu Drive, Leeds, 8	127	188
HAFFNER, A. E., B.Sc., Ph.D., M.I.Chem.E., A.R.C.S., D.I.C., Southern Gas Board, 164, Above Bar, Southampton	75	
HAGENBACH, A., Stairfoot House, Adel, Leeds, 16	74	
HAINSWORTH, Mrs. B., 137, Wakefield Road, Garforth, Leeds		182
HAINSWORTH, D., M.B., Ch.B., 43, Regent Park Terrace, Leeds, 6	127	193
HAINSWORTH, Mrs. E., 34, Hope Lane, Baildon, Yorks.		198
HAINSWORTH, G., M.A., Doc. de l'Université, 25, Cumberland Road, Leeds, 6	60, 120, 130	146
HALL, D. A., B.Sc., Ph.D., 11, Tinshill Road, Cookridge, Leeds, 16	127	185
HALL, H. B., M.A., University of Liverpool		218
HALL, H. B., Keldholme, Linton, Wetherby	89	
HALL, Miss L., 2, Moor Allerton Way, Leeds, 17		202
HALL, Miss V. N., M.A., F.B.Ps.S., J.P., Ripon Training College, Ripon	86, 140	
HALLAM, G. C., B.Sc., 38, Morris Lane, Leeds, 5	123	159
HALSTEAD, Miss W., Girls' Secondary School, Rossington, near Doncaster	141	
HAMILTON, M., M.D., B.S., L.R.C.P., M.R.C.S., D.P.M., Department of Psychiatry, The University, Leeds, 2		187
HAMILTON, Miss MARIE A., B.A., 3, Balmoral Terrace, Claremont Road, Leeds, 6		200
HAMMOND, Alderman Mrs. LILLIAN, 125, Shadwell Lane, Leeds, 17	60, 86, 94	
HANDLEY, Miss S. M., 9, Athelstan Lane, Otley		207
HANNAM, Miss J. M., Greenroyd, Cross Green, Otley		207
HANNAH, Miss D. M., M.A., M.Sc., Ph.D., 24, Westwood Avenue, Linthorpe, Middlesbrough		213
HANSON, A. H., M.A., A.R.C.M., 11, The Crescent, Adel, Leeds, 16		
	108, 122, 130, 139, 217	155
HAPPOLD, Councillor Mrs. A. M. M., M.A., 6a, Bainbrigge Road, Leeds, 6		
	61, 86, 94	
HAPPOLD, Professor F. C., Ph.D., D.Sc., 6a, Bainbrigge Road, Leeds, 6		
	64, 81, 85, 89, 103, 104, 105, 107, 127, 132, 135, 211	180
HARBORD, R. P., M.D., D.A., F.F.A.R.C.S., 1, Arncliffe Road, Leeds, 16		
	127, 135, 195	190
HARDAKER, County Councillor Mrs. L., Harrowing, 12, High Spring Gardens, Keighley		61, 86
HARDING, R. T., G.I.Mech.E., 23, Kingsway, Whitkirk, Leeds, 15		168
HARDY, Miss A. M., 2, Monckton Drive, Castleford		200
HARDY, County Alderman Sir HARRY, A.T.I., J.P., Rods Mills, Morley, Leeds	61, 99	
HARE, A. E. C., M.A., Ph.D., Southlea, Gateland Lane, Shadwell, Leeds, 17		
	122, 130	154
HARE, Miss E. C., 66, The Avenue, Alwoodley, Leeds, 17		162

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			Staff List
HARGRAVE, Alderman J. W. R., LL.B., 51, West Park Crescent, Leeds, 8	60		
HARGREAVES, Professor G. R., O.B.E., M.Sc., M.R.C.P.E., M.R.C.S., L.R.C.P., F.B.Ps.S., 13, Oakwood Drive, Leeds, 8	85, 86, 107, 127, 135		187
HARGREAVES, Brigadier KENNETH, C.B.E., T.D., D.L., Bowcliffe Hall, Bramham, Boston Spa, Yorks.	59		
HARGREAVES, R., B.A., 25, Cromer Terrace, Leeds, 2	120		147
HARGREAVES, T., M.B., B.S., B.Sc., M.R.C.S., L.R.C.P., 313, Gillington Road, Bradford, 8	127		182
HARLAND, Miss F., 6, Blenheim Mount, Bradford, 8			200
HARLAND, H. B., A.I.M.L.T., A.I.S.T., F.R.M.S., 4, Carrholm View, Leeds, 7			196
HARPER, A., A.M.Inst.F., 17, Winding Way, Alwoodley, Leeds, 17			208
HARPER, R., M.Sc., Ph.D., F.B.Ps.S., 38, Hollin Lane, Far Headingley, Leeds, 16	123		165
HARRIMAN, D. G. F., M.D., M.R.C.P., 9, Bentcliffe Lane, Leeds, 17	127		181
HARRIS, Miss A., B.A., Tetley Hall, Moor Road, Leeds, 6			184
HARRIS, C. C., B.Sc., Ph.D., 14, Miles Hill View, Leeds, 7	125		169
HARRIS, Miss J., 91, Tinshill Road, Leeds, 16			152
HARRIS, P. G., M.Sc., Ph.D., 27 Church Lane, Garforth, Leeds	123, 133		164
HARRIS, R. L. H., M.B., B.S., L.R.C.P., M.R.C.S., D.A., F.F.A.R.C.S., 24, Sandhill Crescent, Leeds, 17	127		190
HARRIS, Miss S., 14, Ash Road, Leeds, 6			194
HARRISON, D., M.I.Min.E., N.E. Division, National Coal Board, Allerton Bywater, Leeds	91		
HARRISON, E. L., B.A., B.Litt., 87, Weetwood Lane, Leeds, 16	120, 131		144
HARRISON, Miss GWENDOLEN, M.B., Ch.B., D.A., F.F.A.R.C.S., 8, Shire Oak Road, Leeds, 6	127, 135		190
HARRISON, J. F. C., M.A., Ph.D., 16, Norfolk Road, Harrogate	120, 137		199
HARRISON, P. M., 86a, Potternewton Lane, Leeds, 7			175
HARRY, Miss E. M., 5, Albion Street, Queensbury, Bradford			207
HART, P., A.I.M.L.T., 141, Ring Road, Farnley, Leeds, 12			196
HARTFALL, Professor S. J., T.D., B.Sc., M.D., F.R.C.P., 43, Park Square, Leeds, 1	107, 127, 135, 216		185
HARTLEY, B. R., M.A., F.S.A., Flat 5, 24, Shire Oak Road, Leeds, 6	120, 131, 214, 216		144
HARTLEY, J., B.Sc., 21, Moor Drive, Leeds, 6	123, 133		164
HARTLEY, L., M.I.Mech.E., M.Inst.Gas E., Messrs. Clayton, Son & Co., Ltd., Moor End Works, Leeds, 10	75		
HARTSHORNE, N. H., M.C., M.Sc., Ph.D., F.R.I.C., 18, Green Lane, Leeds, 6	123, 132		160
HARVEY, Emeritus Professor J. W., M.A., 8a, Claremont Road, Leeds, 6	110, 211, 216		
HARVEY, Mrs. P. M., Flat 3, 70, Street Lane, Leeds, 8			155
HASELDEN, Professor G. G., B.Sc., Ph.D., A.M.I.Chem.E., 12, High Ash Drive, Leeds, 17	107, 125, 132		171
HAUGER, E. G., M.A., 24, The Haven, Whitkirk, Leeds, 15	120, 137, 139, 214		199
HAUSER, A., Dr.Phil., 3, Eton Avenue, London, N.W.3	118		
HAVARD-WILLIAMS, P., M.A., A.L.A., The Library, The University, Leeds, 2			200
HAWKINS, Captain H. G., O.T.C., The University, Leeds, 2	234		209
HAWKSHAW, Mrs. A. B., 47, The Bottoms, Gildersome, Leeds			158
HAWKESWORTH, Miss E., 51, Rigton Drive, Leeds, 9			207
HAWTHORNE, A. T., M.B., B.Ch., B.A.O., D.A., F.F.A.R.C.S., Elmsall Lodge, 82, Lidgett Lane, Leeds, 8	127		190
HAY, G. A., M.Sc., Willow Bank, Leeds Road, Otley	127		192
HAYES, D., B.Sc., 54, St. Michael's Road, Leeds, 6			171
HAYNES, R., 19, Lombard Street, Leeds, 15			175
HAYNES, S., B.Ch.D., F.D.S.R.C.S., D.Orth., Longridge, Mansfield Road, Burley-in-Wharfedale	127		195

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HAYTER, C. G., H.M.I., Ministry of Education, Britannia House, Bridge Street, Bradford	141	
HAYWARD, Miss A., Flat 11, 19, Cromer Terrace, Leeds, 2		193
HAZELWOOD, Miss M., 6, Springfield Mount, Leeds, 12		178
HEAD, W. G., B.Sc.(Econ.), 8, Wynford Mount, Leeds, 16	122	155
HEARLEY, M. J. G., H.M.I., Hopewell House, Woodhouse Lane, Leeds, 2	87, 141	
HEATON, Miss B., 1, St. Chad's Drive, Leeds, 6		146
HEATON, F. W., B.Sc., Ph.D., A.R.I.C., 39, Headingley Mount, Leeds, 6		190
HEBB, H. E., M.A., 33, Mill Hill Road, Pontefract		146
HEBDEN, G. A., M.I.Chem.E., The South Yorkshire Chemical Works Ltd., Parkgate, Rotherham	75	
HELLIER, F. F., O.B.E., M.A., M.D., F.R.C.P., 20, Clarendon Road, Leeds, 2	127, 135	185
HEMINGWAY, Professor A., M.B., Ch.B., M.Sc., 4, Helmsley Drive, Leeds, 16		
62, 66, 73, 74, 77, 85, 86, 93, 95, 97, 100, 102, 107, 127, 132, 135, 216		179
HEMINGWAY, J. E., B.Sc., Ph.D., 9, Claremont Drive, Leeds, 6	123, 132, 214	164
HEMINGWAY, Alderman W., J.P., 48, Ring Road, Middleton, Leeds, 10	57	
HENDERSON, W., M.D., F.R.C.P.E., D.C.H., The Cedars, Huntington, York	92	
HENDERSON, W. R., O.B.E., M.B., Ch.B., F.R.C.S., The General Infirmary, Leeds, 1	127, 135	189
HENRIQUES, L. F., M.A., D.Phil., Laurel Villa, 1, Moorland Leys, Leeds, 17	56, 130, 154, 216	155
HENSON, H., Ph.D., D.Sc., 24, Elmete Avenue, Leeds, 8	123, 132, 139, 215	163
HENSON, P. W., B.Sc., The Lodge, Oaklands, Long Causeway, Leeds, 16		192
HEPBURN, F., M.A., M.Sc., Ph.D., Department of Medical Physics, The University, Leeds, 2	127	192
HEPWORTH, Miss E. M., 4, Ridge Grove, Leeds, 7		207
HEPWORTH, K., B.Sc., 16, Carrholm View, Leeds, 7		174
HEWITT, Miss M. S., B.Sc., Tetley Hall, Moor Road, Leeds, 6	120, 204, 212	151
HEY, Professor D. H., King's College, University of London	219	
HEYTINGS, R. T., B.Ch.D., M.B., Ch.B., L.D.S., 43, Primley Park Lane, Leeds, 17	127	195
HIBBERT, J. E., J.P., 7, Mavis Lane, Leeds, 16	73	
HIBGAME, Miss D. M., M.A., 20, Charles Street, Berkhamsted, Herts.	118	
HICKS, J. D., B.Sc., Houldsworth School, The University, Leeds, 2		172
HIDDLESTON, J. A., M.A., Sadler Hall, Church Lane, Adel, Leeds, 16	120	146
HIGGINS, The Rev. A. J. B., M.A., B.D., Ph.D., 10, Westville Avenue, Ilkley	120	150
HIGGINS, F. E., B.A., M.B., Ch.B., M.R.C.S., M.R.C.P., 3a, Shaw Lane, Leeds, 6	127	185
HIGGINSON, G. R., B.Sc., Ph.D., A.M.I.Mech.E., 12, Mavis Avenue, Leeds, 16	125, 133	168
HIGHAM, N., B.A., A.L.A., Upper Flat, 247, Hyde Park Road, Leeds, 6		201
HILES, Miss P. A., 197, West Park Drive, Leeds, 8		167
HILL, B., The University, Leeds, 2		208
HILL, C. L., Groundsman's House, Weetwood, Leeds, 16		208
HILL, Miss D. M., Swincar House, Kirk Lane, Yeadon, Leeds		187
HILL, Miss F., 38, Becketts Park Drive, Leeds, 6		172
HILL, G. W., M.A., 15, Arncliffe Road, Leeds, 16	120	145
HILL, Mrs. L. M., 4, Newton Grove, Leeds, 7		207
HILL, Miss P. A., 12, Deanswood View, Leeds, 17		207
HILLAS, A. M., B.Sc., Ph.D., 12, Springfield Terrace, Guiseley, Leeds	123	159
HILLMANN, H. C., M.A., 78, Weetwood Lane, Leeds, 16	122, 130	154
HINSLEY, Professor F. B., University of Nottingham		219
HIRD, Alderman H., M.A., 5, North Park Road, Heaton, Bradford	57	
HOARE, F. E., M.Sc., Ph.D., A.R.C.S., F.Inst.P., 7, Bainbrigge Road, Leeds, 6	56, 102, 108, 123, 132, 157, 212	158
HOCKIN, Miss C. J., Flat 6, 30, Park Avenue, Leeds, 8		172

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HODGKINSON, A., B.Sc., Ph.D., A.R.I.C., 5, Welburn Avenue, Leeds, 16	190
HODGSON, D. R., B.Sc., Dip.Agric., 21, Parkside Road, Leeds, 6	125, 133 177
HODSON, A. L., M.Sc., Ph.D., 4, Athel Court, St. Helen's Lane, Adel, Leeds, 16	123 159
HOGG, Miss M., M.F.T.Com., Lynton, St. John's Drive, Yeadon, Leeds	183
HOLBURT, Miss F. E., 47, Dawlish Avenue, Leeds, 7	183
HOLDING, D. H., M.A., Department of Psychology, The University, Leeds, 2	123 165
HOLDSWORTH, Miss M. J., B.Sc., 3, Devonshire Terrace, Bradford, 9	190
HOLLAND, F., M.A., Leeds Modern School, Leeds, 16	62, 69, 141
HOLLAND, Miss J. I., 26, Belmont Avenue, Otley	152
HOLLIDAY, R., B.Sc., The Laurels, Grove Road, Boston Spa, Yorks.	123, 132 176
HOLLINGS, H., O.B.E., D.Sc., M.Inst.Gas E., Darnholm, Goathland, Yorks.	75
HOLLINGS, M. R., B.Ch.D., F.D.S.R.C.S., Redwood, Allerton Avenue, Leeds, 17	127, 135 194
HOLLINGWORTH, N. W., B.Sc., 52, Cardigan Road, Leeds, 6	172
HOLLINS, T. H. B., M.A., M.Ed., The University, Manchester, 13	86, 140
HOLLIS, Miss J., 34, Mount Preston, Leeds, 2	207
HOLLIS, T., 47, Haddon Road, Norbreck, Blackpool	118
HOLT, Miss J., Flat B., 5, Woodhouse Square, Leeds, 2	207
HOLT, PERCY A., Woodcote, Woodhall Lane, Calverley, Leeds	99
HOLTON, J. B., B.Sc., A.R.C.S., 10, Woodland Close, Leeds, 15	127 182
HONIKMAN, Miss B., M.A., Department of Phonetics, The University, Leeds, 2	152
HOPKINS, H. J., 27, Cromer Terrace, Leeds, 2	194
HOPPER, Professor F. E., M.D.S., F.D.S.R.C.S., 23, Ancaster Road, Leeds, 16	194
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HORLER, D. F., B.Sc., Ph.D., Flat F, 20, North Hill Road, Leeds, 6	176
HORNSEY, G., LL.M., 107, Cookridge Lane, Leeds 16	60, 122 156
HORSEFALL, F., A.I.S.T., 101, Cross Flatts Grove, Leeds, 11	170
HORTON, Miss C. M., c/o Mr. Thomas, Lloyds Bank Chambers, Vicar Lane, Leeds, 1	207
HOUGH, The Rev. W. E., B.D., M.A., Rawdon College, Rawdon, Leeds	120 150
HOUSE, A., A. H. A., Stockport Infirmary, Wellington Road, South Stockport	92
HOW, Miss J. L., 46, Hollin Park Mount, Leeds, 8	207
HOW, L., 46, Hollin Park Mount, Leeds, 8	196
HOWES, Miss C., 39, West View, Leeds, 11	198
HOWISON, Miss A. N., Little Beeches, First Avenue, Bardsey	170
HOWITT, Miss M., 86, Burlington Road, Leeds, 11	198
HUBBERT, Miss J. A., Graysholme, Larkfield Avenue, Rawdon, Leeds	159
HUDSON, R., White Lodge, Hookstone Road, Harrogate	84
HUDSON, Miss S., 7, Fairfield Street, Leeds, 13	149
HUGH, A., M.B., B.Ch., M.R.C.P.E., D.M.R.D., 11, King George Avenue, Leeds, 7	192
HUGHES, D., B.Sc., Ph.D., A.Inst.P., A.M.I.E.E., Department of Medical Physics, The University, Leeds, 2	192
HUGHES, E., 16, Royal Park Grove, Leeds, 6	196
HUGHES, Emeritus Professor J. D. I., B.C.L., M.A., Bugeilyn, Borth, Cardiganshire	110
HUKIN, Miss I. B., Ashville, Wyncroft Grove, Bramhope, Leeds	207
HULETT, J. R., M.A., D.Phil., Department of Chemical Engineering, The University, Leeds, 2	125 171
HULLIN, R. P., M.Sc., Ph.D., F.R.I.C., J.P., 5, Wynford Terrace, Leeds, 16	127, 134, 135 180
HUME, J., B.Sc., A.R.I.C., Hazelhead, 44, Green Lane, Leeds, 16	93, 118 162
HUMPHRYS, Major H. J., C.B.E., D.S.O., M.C., 119, Thorne Road, Doncaster	91
HUNKIN, Miss E. R., M.A., Department of Russian, The University, Leeds, 2	147
HUNT, D., F.R.C.O. (C.H.M.), A.R.C.M., 20, Dennistead Crescent, Leeds, 6	150
HUNT, E. G., 13, North Hill Road, Leeds, 6	178
HUNT, K. L., B.Sc., Ph.D., Rose Villa, Scorton, Richmond, Yorks.	123, 137, 212 199

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HUNTER, B., G.I.Mech.E., 8, Lucas Place, Leeds, 6		168
HUNTER, G. B. B., M.A., 34, Tong Lane, Tong, Bradford	120	149
HUNTER, Major J. C., M.C., O.B.E., Crimble Brow, Pannal, Harrogate	94	
HUTCHINGS, E. A., O.B.E., Messrs. T. and W. N. Hutchings, Ltd., Warrington, Lancs.	89	
HUTCHINSON, W., A.I.S.T., 33, Alder Hill Grove, Leeds, 7		179
HUTCHISON, W. K., C.B.E., South Eastern Gas Board, Catharine Street, Croydon, Surrey	75	
HUTT, M. G., B.Litt., M.A., 34, Lidgett Lane, Leeds, 8	120, 131	148
HYMAN, County Alderman W. M., 32, Queen Road, Harrogate	62, 65, 80, 81, 86, 93, 138, 140	
LETT, J. J., M.A., 12, Holmfild Drive, Leeds, 8	119	
ILLINGWORTH, Miss E. CLARE, B.Sc., M.D., L.R.C.P., M.R.C.S., D.R.C.O.G., D.C.H., 14, Montpelier, Cliff Road, Leeds, 6		187
ILLINGWORTH, G. H., M.A., M.D., L.R.C.P., M.R.C.S., D.M.R.Ed., The General Infirmary, Leeds, 1	127, 135	191
ILLINGWORTH, G. N.,	58	
ILLINGWORTH, W. L., B.A., 50, Black Bull Street, Leeds, 10	58	
INEBNIT, J. P., L.ès L., 15, The Drive, Adel, Leeds, 16	118	
INGEBRIGTSEN, Mrs. M., A.L.C.M., 33, Mexborough Drive, Leeds, 7		207
INGLE, LAWRENCE A., Thornccliffe, St. Andrew's Avenue, Morley, Leeds	57, 89	
INGOLD, Professor C. T., The University of London	219	
IRELAND, G. W., M.A., 14, Moss Gardens, Leeds, 17	120	
IRESON, J. C., M.A., Tithe House, Town Street, Horsforth, Leeds	120, 131	146
IRVINE, E. D., M.D., L.R.C.P., M.R.C.S., D.P.H., Municipal Buildings, Halifax Road, Dewsbury, Yorks.	92	
ISHIGURO, Miss HIDEKO, B.A., B.Phil., Department of Philosophy, The University, Leeds, 2	120	149
ISLES, G. L., B.Sc., Ph.D., 100, Bywell Road, Dewsbury, Yorks.		172
ISSERLIN, B. S. J., M.A., B.Litt., D.Phil., 154, Otley Road, Leeds, 16	120, 130	144
IVIN, K. J., B.Sc., M.A., Ph.D., 11, Moor Grange Rise, Leeds, 16	123	161
IVINS, Professor J. D., University of Nottingham	220	
JACKSON, Miss C. M., 33B, St. Michael's Road, Leeds, 6	203	
JACKSON, D., D.D.S., M.D.S., L.D.S., Cragg View, Bradford Road, Burley-in-Wharfedale, Yorks.	127, 216	194
JACKSON, E. G., B.Sc., Ph.D., Lynburn, Larkfield Drive, Rawdon, Leeds		172
JACKSON, L. T., M.A., Education Offices, West House, Halifax	86, 139	
JACKSON, Col. W. F., O.B.E., M.C., T.D., Headingley Castle, Leeds, 6	57	
JACOBS, Mrs. N., B.Sc., 30, Shaw Lane Gardens, Guiseley, Leeds	127	192
JACOBS, S. I., M.B., Ch.B., 30, Shaw Lane Gardens, Guiseley, Leeds	128	183
JAMES, A. H., B.Sc., Department of Bacteriology, The University, Leeds, 2		183
JAMES, Miss G. A., 26, Westminster Drive, Burn Bridge, Harrogate		176
JAMES, G. S., B.A., c/o Mrs. Hodsmen, 2, Norwood Grove, Leeds, 6	123, 134	157
JAMES, Mrs. M., 12, Ingledew Crescent, Leeds, 8		188
JAMES OF RUSHOLME, The Rt. Hon. The LORD, M.A., B.Sc., D.Phil., The Manchester Grammar School, Manchester	141	
JAMES, Professor P. S., M.A., Hillside, Banks Lane, Riddlesden, Keighley	107, 122, 130, 212, 215, 217	156
JAMES, W. R. LESTER, Welsh National School of Medicine, Cardiff	220	
JAMIESON, J. G., M.A., B.M., B.Ch., D.C.H., 30, North Parade, Leeds, 16		193
JAYKO, M. E., Ph.D., School of Chemistry, The University, Leeds, 2		162

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JEFFERSON, D. W., B.A., B.Litt., 21, Lyddon Terrace, Leeds, 2	145
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JEFFREY, A. G., B.Com., 8, Allerton Drive, East Keswick, Leeds	177
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JEFFRIES, Miss M. B., 184, Scott Hall Road, Leeds, 7	202
JENNINGS, D.H., B.A., M.A., D.Phil., 34, Dennistead Crescent, Leeds, 6	164
123	
JENNINGS, J. B., B.Sc., Ph.D., Ashlea, West Lane, Baildon, Yorks.	163
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JEPSON, A., 36, Fearnville Close, Leeds, 8	180
JEPSON, L., A.I.B.P., A.I.S.T., 36, Arlington Road, Leeds, 8	196
JEPSON, N. A., B.A., Ph.D., 5, Old Barn Close, Leeds, 17 80, 120, 137, 139, 199, 217	155
JERVIS, Emeritus Professor J. JOHNSTONE, M.D., D.P.H., Tong Norton Farm, Shifnal, Shropshire	94, 110
JESSOP, Professor T. E., University of Hull	218
JESSOP, Professor W. J. E., Moyne Institute of Preventive Medicine, Trinity College, Dublin	220
JOB, Major D. L., Women's Royal Army Corps, The University, Leeds, 2	209
JOHNS, J. T. C., A.I.S.T., 28, Richmond Avenue, Leeds, 6	163
JOHNSON, A., B.Sc.(Econ.), 87, Wensley Road, Leeds, 7	199
122, 137	
JOHNSON, C., B.A., 8, Grange Park Avenue, Leeds, 8	199
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JOHNSON, Professor D. C., M.A., A.M.I.Mech.E., 14a, Wood Lane, Leeds, 6	167
69, 103, 105, 107, 125, 132, 214, 217	
JOHNSON, H. G. L., L.D.S., 32, Park Square, Leeds, 1	195
127	
JOHNSON, Miss H. M., 140, Gledhow Wood Road, Leeds, 8	198
JOHNSON, L. G., B.A., 3, Round Down, Gomshall, Surrey	118
JOHNSON, Miss MABEL, B.Com., 28, Hyde Terrace, Leeds, 2	206
JOHNSON, R. L., B.Sc., Ph.D., 15, Becketts Park Drive, Leeds, 6	164
JOHNSTONE, Professor A. S., M.D., F.R.C.S.E., F.F.R., D.M.R.E., The General Infirmary, Leeds, 1	191
107, 128, 135	
JOHNSTONE, K. I., B.Sc., M.B., Ch.B., Ph.D., 30, West Park Crescent, Leeds, 8	182
128, 132, 135	
JOLLEY, Miss M. E., 8, Primley Park Road, Leeds, 17	163
JONES, A. POWELL, M.Sc., 22, Montpelier, Cliff Road, Leeds, 6	177
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JONES, A. REES, B.Sc., Ph.D., The Parkinson Cowan Appliances Ltd., Stechford, Birmingham, 33	75
JONES, C. M., M.A., M.Sc., 35, West Park Street, Dewsbury, Yorks.	197
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JONES, D., D.L.C., 195, Kirkstall Lane, Leeds, 6	172
JONES, Mrs. D., 91, Leysholme Crescent, Leeds, 12	156
JONES, D. M., M.A., A.R.I.B.A., Messrs. Jones & Stocks, 7, Blenheim Terrace, Leeds, 2	70
JONES, E. H., The Union Building, The University, Leeds, 2	208
JONES, F., B.Sc.(Tech.), Ph.D., 18, Joseph Avenue, Northowram, Halifax	175
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JONES, F. T., B.S., Ph.D., 93, Clarendon Road, Leeds, 2	161
JONES, G. R. J., M.A., Vale Croft, 96, Valley Drive, Ben Rhydding, Ilkley	149
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JONES, Sir HENRY, M.B.E., M.A., M.I.C.E., M.Inst.Gas E., The Gas Council, 1, Grosvenor Place, London, S.W.1	75
JONES, J., 69, Calverley Lane, Leeds, 13	174
JONES, J. A. L. VAUGHAN, C.B.E., M.B., Ch.B., J.P., 1, Darnley Road, Leeds, 16	193
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JONES, Emeritus Professor J. H., M.A., LL.D., 34, Park Road, Surbiton, Surrey	110
JONES, P. J., M.A., D.Phil., 31, Spennithorne Avenue, Leeds, 16	148
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JORDAN, Miss D., Woolley Hall, Woolley, Wakefield	87
JORDAN, Miss R., 26, Westbourne Avenue, Leeds, 11	207
JORDAN, Professor R. F., A.R.I.B.A., A.A.Dipl., 178 Colcherne Court, London, S.W.5	107, 121, 130
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JOWETT, A., B.Sc., Ph.D., 236, Town Street, Leeds, 10	169
JOWETT, Miss E. M., 26, St. Ann's Drive, Leeds, 4	158
JOYCE, Miss U. C., 16, Ebberston Terrace, Leeds, 6	207
JULL, J. W., B.Sc., Ph.D., 17, Ings Road, Leeds, 9	184
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KAY, L. R., B.A., 13, Ashleigh Road, Leeds, 16	206
KEAN, A. M., M.A., The Grove, Scarcroft, Leeds	
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KEIGHTLEY, C., M.Sc., The Chalet, 31, Nunroyd Road, Leeds, 17	
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KEIGHTLEY, Mrs. B., The Chalet, 31, Nunroyd Road, Leeds, 17	209
KELLERMANN, E. W., Dr. Phil., Ph.D., F.Inst.P., 970, Scott Hall Road, Leeds, 17	
123, 134	158
KELLETT, R. P., B.Sc., A.M.I.Mech.E., Oakwood House, Oakwood Lane, Leeds, 8	
61, 69, 142	
KELLY, A., M.A., LL.B., Barrister-at-Law, 6, Buckingham Mount, Leeds, 6	
80, 121, 137	199
KELLY, Mrs. M., 23, Cavendish Road, Leeds, 1	208
KELLY, P. M., B.A., 35, Cookridge Avenue, Leeds, 16	172
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KENDALL, Miss D., 15, Whitebridge Spur, Leeds, 9	182
KENNEDY, Professor W. Q., D.Sc., F.R.S., Ridgefield, North Hill Road, Leeds, 6	
91, 107, 123, 132	164
KENNY, A. J., M.B., B.S., Ph.D., 17, The Drive, Leeds, 8	180
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KER, Miss J., 42, Headingley Avenue, Leeds, 6	207
KERR, Mrs. M. H., B.Sc., 29, Shaw Lane, Leeds, 6	165
KERR, T., M.A., D.Sc., 29, Shaw Lane, Leeds, 6	163
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KERSHAW, M., B.Sc., 17, Moseley Wood Gardens, Leeds, 16	172
KERSHAW, W. W., M.B., Ch.B., 37, Windy Bank Lane, Hightown, Liversedge	
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KETTLE, A. C., M.A., Ph.D., 36, Moor Road, Leeds, 6	145
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KETTLEWELL, C. T.,	58
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KEYS, Professor I., University of Nottingham	
KIBBLE, Mrs. M. J., 38, Wetherby Road, Leeds, 8	160
KIDD, C., B.Sc., Ph.D., 10, Belvedere Road, Leeds, 17	179
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KIDD, F., M.A., 13, Plevna Terrace, Bingley, Yorks.	174
KIDD, J. N., L.I.B.S.T., 14, Wynford Avenue, Leeds, 16	196
KILBY, B. A., M.A., Ph.D., 20, Kingswood Grove, Leeds, 8	180
109, 128, 132, 135	
KILHAM, J. K., B.Sc., Ph.D., A.R.I.C., 17, Drummond Avenue, Leeds, 16	172
KING, Mrs. A. R., B.Sc., Mixton House, Lerryn, Lostwithiel, Cornwall	119
KING, H. J., B.Sc.(Eng.), Ph.D., A.M.I.Min.E., 45, Kingsley Avenue, Leeds, 16	
125, 132, 211, 214	169
KING, Miss C. P., 12, Brackenwood Drive, Leeds, 8	207
KING, Mrs. J., 1a, Grange Park Crescent, Leeds, 8	189
KING, Miss P., School House, Beckett Terrace, Leeds, 9	207
KINGSTON, J. W., 142, Stainbeck Road, Leeds, 7	194
KIRBY, D., B.Sc., Ph.D., 7a, North Hill Road, Leeds, 6	157
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KIRK, M., M.A., 2, Brooklands, East Keswick, Leeds	149
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KISBY, C., A.R.C.A., A.T.L., 4, Davies Avenue, Old Park Road, Leeds, 8	
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KITCHING, Miss M., 43, Bagby Road, Leeds, 2	200
KITSON, Miss D., B.A., 5, Edgware Avenue, Leeds, 8	167
KITSON, Colonel GEOFFREY H., O.B.E., Heron Court, Linton-on-Wharfe, Wetherby	
62, 64, 67, 69, 71, 73-82, 84-86, 88-102, 140	
KNEEBONE, R. M. T., M.A., Beckfield County Secondary School, York	141
KNIGHT, Professor G. WILSON, M.A., F.R.S.L., 9, Moor Park Drive, Leeds, 6	
107, 121, 130	145
KNIGHTON, A. L., F.I.A.A., L.R.I.B.A., A.I.Struct.E., M.R.S.H., 52, Victoria Walk, Horsforth, Leeds	208
KNIVETON, S., 40, Sandhill Crescent, Leeds, 17	152
KNORRING, O. VON, M.Sc., Ph.D., 21, Churchwood Avenue, Leeds, 16	164
KNOWLES, Miss Barbara, 5, Park Chase, Harrogate	186

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KROCH, F. H., Ph.D., Burford, Broad Oak Road, Worsley, Lancs.		89	
KYLSTRA, H. E., Drs.Phil., 42, Morris Lane, Leeds, 5			146
KYNCH, Professor G. J., University of Manchester		219	
LADLEY, Miss A., 41, Montreal Avenue, Leeds, 7			182
LAIGHT, B. P., M.Sc., A.M.I.Mech.E., F.R.Ae.S., Chief Designer, Messrs. Blackburn General Aircraft Ltd., Brough, E. Yorks.		69	
LAING, A., M.A., Ed.B., 14, Caythorpe Road, Leeds, 16			
	104, 105, 121, 203, 216, 217		151
LAKE, B. D., B.Sc., 6, Clobber Street, Leeds, 2			176
LAMB, The Rev. Canon P. J., M.A., St. John's College, York		87, 140	
LAMERANT, Mlle. H., L. ès L., Ellerslie Hall, Lyddon Terrace, Leeds, 2		205	146
LANGHORNE, Miss M. L., S.R.N., S.R.C.N., Children's Department, St. James's Hospital, Leeds, 9			187
LANGLEY, R. L., M.A., M.D., F.R.C.P.E., Highthorne Cottage, Husthwaite, York		92, 118	
LANGSTADT, E., Ph.D., 9, Buckingham Drive, Leeds, 6			201
LANGTON, Councillor A., 76, Marygate, York		138	
LANGWORTH, E. P., M.B., Ch.B., Department of Medicine, The University, Leeds 2			185
LATCHMORE, A. J. C., M.B.E., M.S., F.R.C.S., 20, Clarendon Road, Leeds, 2			
	128, 135		188
LATHAM, Commander Guy D., R.N., Clothworkers' Company, Clothworkers' Hall, Dunster Court, Mincing Lane, London, E.C.3		59	
LATHE, Professor G. H., M.Sc., M.D.C.M., Ph.D., 14, Lidgett Park Road, Leeds, 8		85, 107, 128, 135	182
LA TOUCHE, C. J. P., M.Sc., L.A.H., 4, Oakwell Drive, Leeds, 8		128	183
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LATTER, Major-General J.C., C.B.E., M.C., D.L., Riverside Cottage, Naburn, York		90	
LAUDER, I., D.Sc., School of Chemistry, The University, Leeds, 2			161
LAWRENCE, R. C., M.B., Ch.B., D.A., F.I.C.A., F.F.A.R.C.S., 6, Wedgwood Grove, Leeds, 8		128	190
LAWS, J. O., M.A., M.B., B.Chir., Ph.D., M.R.C.P., M.R.C.S., 13, Caythorpe Road, Leeds, 16		128	184
LAWSON, A. T., 19, Greenwood Road, Tingley, Nr. Wakefield			168
LAWSON, Miss J., 11, Cross Flatts Crescent, Leeds, 11			203
LAWTON, Councillor F., J.P., 31, Thorpe Lane, Almondbury, Huddersfield		61	
LAWTON, County Councillor J. A., M.A., B.Sc., M.Ed., Dane Head, Park Lane, Upper Cumberworth, Huddersfield		59	
LAX, G. R., A.R.I.C., 5, Allerton Grange Gardens, Leeds, 17			177
LAYBOURN, J. E., M.A., 2, Ringwood Avenue, Wetherby Road, Leeds, 14		118	
LAYCOCK, Mrs. I., 14, Churchfield Street, Leeds, 6			207
LAYCOCK, L. E., O.B.E., B.Com., J.P., Perseverance Mills, Woodhouse Carr, Leeds, 6		62, 67	
LAYTON, D., M.A., M.Sc., 55, St. Chad's Drive, Leeds, 6		120	151
LEACH, Miss BETTY M., 27a, Arncliffe Road, Leeds, 16			203
LEAH, A. S., B.Sc., Ph.D., A.M.I.C.E., A.M.I.Mech.E., 19, Wynford Mount, Leeds, 16		56, 125, 132, 167	168
LEAK, Miss Dorothy M., B.A., 29, Fitzroy Drive, Leeds, 8			200
LEAK, F., 10, Heaton Avenue, Leeds, 12			194
LEDSONE, J. R., M.B., Ch.B., 262, West Park Drive, Leeds, 8		128	180
LEE, F., 11, Tinshill Drive, Leeds, 16		77, 102	163
LEEDALE, G. F., B.Sc., Ph.D., 11, Moor Grange Rise, Leeds, 11		123	164
LEEMING, F. A., B.A., 14, Holly Park, Huby, Leeds		121	149
LEESE, Miss S. M., B.Sc., M.B., B.S., D.P.M., M.R.C.S., L.R.C.P., c/o Mrs. Nicholls, 22, Long Causeway, Leeds, 16		128	188

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LEHMANN, Professor A. G., University of Reading	218
LEMAGE, Miss S. A., 35, Gledhow Wood Avenue, Leeds, 8	198
LE PATOUREL, Professor J., M.A., D.Phil., Westcote, Hebers Ghyll Drive, Ilkley 70, 72, 107, 121, 130, 212, 214, 216	148
LESTER, Mrs. C., 51, Carr Manor Road, Leeds, 17	207
LEVELL, M. J., M.A., 190, Chapeltown Road, Leeds, 7	182
LEWIS, G. M., M.B., Ch.B., D.C.H., M.R.C.P.(E.), 16, Buckstone Crescent, Leeds, 17	187
LEWIS, J. R., B.Sc., Ph.D., 10, West Park Grove, Leeds, 8	123, 134
LEWIS, Mrs. M. A., Fairhaven, 1, James Avenue, Leeds, 8	207
LEWIS, Rev. T. R., 67, Hilton Road, Leeds, 8	233
LIDDELL, L. E., The Pollock Institute of Physical Education, 46, Pleasance, Edinburgh	218
LIGHTFOOT, E., M.Sc.(Eng.), Ph.D., A.M.I.C.E., M.I.Struct.E., 40, Heslington Lane, Fulford, York	60, 125, 214
LILEY, Miss D. A., 4, Givendale Court, Weydale Avenue, Scarborough	118
LILLER, Mrs. J. E., Avondale, Canada Drive, Rawdon, Leeds	174
LILLYWHITE, Miss P. A., Highfield, Kensington Avenue, Thorner, Leeds	207
LINDEN, R. J., M.B., Ch.B., Ph.D., 8, Wetherby Road, Leeds, 8	128, 135
LINDLEY, W. H., 50, Brownhill Terrace, Leeds, 9	208
LISSIMORE, N., M.D., 37, Arndcliffe Road, Leeds, 16	128
LISTER, Alderman D. C., M.A., J.P., 81, Strathmore Avenue, Kingston-upon- Hull	60, 65
LISTER, Miss E. D., B.Sc., 25, Banks Lane, Riddlesden, Keighley	164
LISTER, Alderman Miss E. M., M.B.E., 442, Street Lane, Leeds, 17	92
LISTER, Miss URSULA M., M.D., F.R.C.S.E., F.R.C.O.G., Causeway Cottage, Long Causeway, Leeds, 16	76, 128, 135, 215
LITTLEWOOD, G., A.I.M.L.T., The Cottage, Lumby, South Milford	184
LITTLEWOOD, J. C. F., M.A., 6, Maison Dieu, Richmond, Yorks.	121, 137
LITTLEWOOD, J. M., M.B., Ch.B., D.C.H., 7a, Park View Crescent, Leeds, 8	187
LLOYD, L., D.Sc., 185, Sewerby Road, Bridlington	119
LOACH, J. V., B.Sc., Ph.D., F.R.I.C., 29, Cumberland Road, Leeds, 6	56
LÖB, M. H., M.A., Ph.D., 8, Claremont Road, Leeds, 6	123, 133
LOCKYER, A. J. P., M.A., 14, First Avenue, Rawdon, Leeds	194
LOLLEY, A. M., 4, Langwith Terrace, Harewood Road, Wetherby, Yorks.	206
LONDON, D., M.B., Ch.B., Flat E., 374, Broad Lane, Leeds, 13	128
LONG, Miss C., 16, Bowood Avenue, Leeds, 7	207
LONG, F. A., B.Sc., 29, Weetwood Court, Leeds, 16	118, 213
LONG, W. H., M.A., 73, Gledhow Wood Road, Leeds, 8	125, 132
LONGDEN, H. A., B.Sc., Production Department, National Coal Board, Hobart House, Grosvenor Place, London, S.W.1	91
LONGFIELD, M. D., B.Sc., A.M.I.Mech.E., 31, Brudenell View, Leeds, 6	125
LONSDALE, A., M.A., 5, Ashwood Terrace, Leeds, 6	156
LOPEZ CASTRO, Señorita A., L.Sc., D.Sc., Ellerslie Hall, Lyddon Terrace, Leeds, 2	160
LORD, O. C., Ch.M., D.L.O., F.R.C.S.E., 30, Park Square, Leeds, 1	128, 135
LORD, P. S., A.R.I.C., Department of Chemical Engineering, The University, Leeds, 2	182
LOSOWSKY, M. S., M.B., Ch.B., M.R.C.P., 184, Chapeltown Road, Leeds, 7	185
LOVELL, K., B.Sc., M.A., Ph.D., 25, St. Chad's Rise, Leeds, 6	121, 210, 212, 216
LOVIS, J. D., B.Sc., Ph.D., 4, Hollin Drive, Leeds, 16	123
LOWE, E. A., B.Sc.(Econ.), A.C.A., A.C.I.S., 5, Belvedere Gardens, Leeds, 17	122
LOWY, S., M.A., Department of Semitics, The University, Leeds, 2	121
LUDLAM, G. B., M.D., D.L.O., D.T.M. & H., 25, The Avenue, Leeds, 8	183
LUDLOW, Miss A. M., Oxford House, Guiseley, Nr. Leeds	188
LUMBY, H. GRAYSON, M.S.I.A., N.D.D., 37, Tofts Road, Pudsey, Leeds	193
LUMSDEN, Professor C. E., M.D., Department of Pathology, The University, Leeds, 2	85, 107, 128, 135

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LUPTON, Miss ELIZABETH M., Beechwood, Leeds, 8	58
LYONS, J., M.B., Ch.B., D.P.H., L.R.C.P., M.R.C.S., 49, The Fairway, Leeds, 17	193
LYONS, P., 22, South Farm Crescent, Leeds, 9	208
LYTHGOE, Professor B., M.A., Ph.D., F.R.I.C., F.R.S., 113, Cookridge Lane, Leeds, 16	159
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MACADAM, Emeritus Professor W., M.A., B.Sc., M.D., F.R.C.P., D.P.H., 24, Park Square, Leeds, 1	92, 94, 110
MCALPINE, Miss E. M., M.A., Tetley Hall, Moor Road, Leeds, 6	204
MACARTHUR, J., M.A., B.Sc., Ph.D., Department of Biomolecular Structure, The University, Leeds, 2	123, 132, 211
McCANN, A. P., B.Sc., School of Chemistry, The University, Leeds, 2	165
MACCARTHY, P. A. D., M.A., Sunnyside, 2, Weetwood Grange Grove, Leeds, 16	160
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McCRRICK, Miss VERENA N. R., M.A., L.R.A.M., Ellerslie Hall, Lyddon Terrace, Leeds, 2	152
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MACCUNN, Major R. C., O.T.C., The University, Leeds, 2	204
MACDONALD, The Rev. J., M.A., B.D., S.T.M., Ph.D., 23, Castle Grove Avenue, Leeds, 6	209
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McDONALD, J. R., 4, Fifth Avenue, Bridlington	145
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MACDONALD, R. R., M.B., Ch.B., D.Obst.R.C.O.G., M.R.C.O.G., Devonshire Hall, Leeds, 6	128
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MACDONALD, W. S., M.C., M.B., Ch.B., D.P.H., J.P., The Ministry of Health, Chesham House, 150, Regent Street, London, W.1	94
McDOUGALL, I. R., B.Sc., A.M.I.Chem.E., 15, Hawkswood Avenue, Bradford, 9	125, 134
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McDOUGALL, J., M.A., Ph.D., The University, Leeds, 2	123, 132
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McEWEN, Rev. Professor J.S., University of Aberdeen	218
McFARLANE, J., B.Sc., B.Eng., F.G.S., 443, Leeds Road, Scholes, Leeds	125, 134, 215
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McGRAIL, D. L., 20, Hawkesnest Gardens West, Leeds, 17	208
McGINTY, Miss K., The University Union, Leeds, 2	208
MACGREGOR, A. J., B.D.S., F.D.S.C.S., 12, Wood Lane, Leeds, 6	128
	195
McGREGOR, Professor J., B.Sc., N.D.A., N.D.D., 115, Askham Lane, Acomb, York	84, 107, 125, 132, 217
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MACGREGOR, J., B.A., M.Ed., Ph.D., Gallowfields Road, Richmond, Yorks.	121, 125, 137, 211, 213
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MACHIN, C., Production Director, North Eastern Division, National Coal Board, Doncaster	91
MACINTYRE, A. C., B.A., M.A., Bedlington House, Potternewton Mount, Leeds, 7	121
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MACIVER, J. E., B.A., M.D., F.R.S.M., Department of Pathology, The University, Leeds, 2	128
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MACK, Professor A. D., King's College, University of Durham	220
McKELVIE, Miss C., Diploma in Physical Education, Department of Physical Education, The University, Leeds, 2	121
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MACKEY, R. D., B.Sc., A.M.I.C.E., 124, New Adel Lane, Leeds, 16	125, 133
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McKINLAY, P. C., M.D., The Gables, Beverley, Yorks.	92
MACKINNON, Mrs. J. M., M.B., Ch.B., 305, Harrogate Road, Leeds, 17	187
MACKINNON, L., M.A., Ph.D., 24, Kepstorn Road, Leeds, 16	123, 133
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MACKINTOSH, F. G., M.B., Ch.B., D.A., F.F.A.R.C.S., Dunsfold, Moor Road, Bramhope, Leeds	128
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MACKINTOSH OF HALIFAX, The Right Hon. the Viscount, LL.D., D.L., J.P., Thickthorn Hall, Hethersett, Norfolk	73

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MCLEISH, J., B.Sc., Ed.B., Elm Bank, Grove Road, Ilkley	121, 137		199
MACLENNAN, A., B.Sc., Huddersfield Technical Training College, Huddersfield	87, 140		
MCLEOD, Emeritus Professor J. W., O.B.E., M.B., Ch.B., Sc.D., F.R.S., 72, Falcon Avenue, Edinburgh, 10	110		
McMENEMY, Mrs. R. IRENE, 51, Moseley Wood Green, Leeds, 16			203
MACMAHON, Miss C., B.Sc., Leeds Day Training College, Czar Street, Leeds, 11	87, 140		
McNAIR, P. M. J., M.A., 14, Monkbridge Road, Leeds, 6	121		147
McNAMARA, A. B., B.Sc., Devonshire Hall, Cumberland Road, Leeds, 6			174
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MACPHAIL, A. N., M.C., M.D., D.P.H., 1, The Drive, Leeds, 8	128, 135		193
McQUAIL, D., B.A., 9, Moorland Road, Leeds, 6			155
MACRAE, J. C., B.Sc., M.Inst.F., F.R.I.C., 11, Weetwood Court, Leeds, 16	125, 132, 211, 212		170
McTAGUE, G., D.A., 11, Lancaster Park Road, Harrogate	121, 137		199
McVIE, Alderman A. E., J.P., 13, Rowland Road, Barnsley	62, 66		
MACWILLIE, Miss J., M.A., M.Sc., Yorkshire Training College of Housecraft, Vernon Road, Leeds, 1	140		
MADGE, Miss E. L., North Riding Training College, Scarborough	87, 140		
MAJOR, Mrs. N. M., 10, Manston Avenue, Leeds, 15			208
MAMAK, R.S., B.Sc., 7, Newton Grove, Leeds, 7	125		169
MANKIN, H. J., 45, Whinfield, Adel, Leeds, 16			208
MANN, J. P., B.A., 14, Eldon Terrace, Leeds, 2	121, 131		145
MANNING, F. J., 227, Whitehall Road, Leeds, 12			206
MANTON, Professor IRENE, B.A., Ph.D., Sc.D., Hon.D.Sc., 15, Harrowby Crescent, Leeds, 16	64, 107, 123, 132, 135		163
MANUEL, A. J., B.Sc., Ph.D., Flat 7a, 24, Moorland Road, Leeds, 2	123, 133		159
MARILLIE, R. E. D., M.B., B.S., D.P.M., M.R.C.S., L.R.C.P., Carr Croft, Stainbeck Lane, Leeds, 7	128		188
MARMION, B. P., M.D., M.R.C.S., L.R.C.P., Manor Park, Scarcroft, Leeds			183
MARSDEN, P. L., B.Sc., Ph.D., Whittinghame, 11, Sycamore Avenue, Leeds, 8	123, 134		158
MARSH, A. A., B.Sc. (Agric.), Dip. Agric. Econ., 11, North Grange Mount, Leeds, 6	125, 134		178
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MARSHALL, H. S., A.A.C.C.A., 12, Lidgett Mount, Leeds, 8			165
MARSHALL, Mrs. MARY, Wynyard, Park Avenue, Castleford			
MARSTON, Councillor H. B., B.Sc., A.R.I.C., 36, York Road, Acomb, York	60		
MARTIN, Miss AUDREY J., A.R.C.A., 4, Harrowby Road, Leeds, 16	71, 121, 211, 213		151
MARTIN, G., B.Sc. (Eng.), 35, Allerton Grange Gardens, Leeds, 17			171
MARTIN, Sir GEORGE W., K.B.E., LL.D., J.P., Adel Lodge, Leeds, 16	73		
MARTIN, Mrs. M., LL.B., 19, Queen Parade, Harrogate	59		
MARTIN, R. H., B.A., M.A., 29, Moseley Wood Lane, Leeds, 16	121, 130, 154		144
MARTINDALE, Miss G., Grey Gables, Crowlees Road, Mirfield			172
MARTINDALE, J. G., Scottish Woollen Technical College, Galashiels			219
MARTINS, H. G., B.Sc. (Econ.), 4, Montpelier, Cliff Road, Leeds, 6	122		155
MASON, Miss D. NORA, 41, Eden Drive, Leeds, 4			163
MASON, Miss S. E., Jesmond, The Homestead, Menston-in-Wharfedale			155
MASSON, D. I., M.A., 38, Whinfield, Leeds, 16			200
MATHER, Councillor B., B.Sc., 199, Adel Lane, Leeds, 16	143		
MATHER, E. A., 100, Royal Park Road, Leeds, 6			175
MATTHEWS, G. M., M.A., B.Litt., 56, Cliff Road, Leeds, 6	121		145
MATTHEWS, T., B.Sc., Department of Chemical Engineering, The University, Leeds, 2	125		171
MATHIESON, A. R., M.Sc., Ph.D., A.R.I.C., 47, Parklands, Bramhope, Leeds	125, 134		174

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MAUDE, R., M.Sc., Ph.D., 33, Mexborough Drive, Leeds, 7	121 157
MAUFE, Lt.-Col. F. W. B., Brookside, Burley-in-Wharfedale, Yorks.	90
MAWSON, Miss FLORENCE M., D.P.A., D.N., S.R.N., S.C.M., H.V.Cert., Department of Preventive Medicine and Public Health, 32, Hyde Terrace, Leeds, 2	215 193
MAXWELL, Miss E. A. M., M.A., F.R.G.S., Bingley Training College, Bingley, Yorks.	87, 140
MAY, F., B.A., 19, Kelso Road, Leeds, 2	121, 130 147
MAYNE, A. J., B.Sc., M.A., 76, Vesper Road, Leeds, 5	158
MEAN, Miss A. J., 5, Adel Park Gardens, Leeds, 16	208
MEAGER, Mrs. C., 17, Wynford Mount, Leeds, 16	207
MELVIN, D. D., M.Inst.Gas.E., Scottish Gas Board, 26, Drumsheugh Gardens, Edinburgh, 3	75
MEREDITH, Professor G. P., M.Sc., M.Ed., Ph.D., F.B.Ps.S., 7, Grosvenor Mount, Leeds, 6	87, 94, 107, 123, 130, 132, 140 165
MERRELL, H. W., 17, St. Chad's Avenue, Leeds, 6	118
METCALF, R., 17, Hollin Drive, Leeds, 16	173
MILE, B., B.Sc., School of Chemistry, The University, Leeds, 2	161
MILLAR, C. S., B.Sc., Headley Hall Farm, near Tadcaster	177
MILLAR, T. McW., 1, Randolph Crescent, Edinburgh, 3	220
MILLARD, A., Jesmond, Tredgold Avenue, Bramhope, Leeds	165
MILLARD, Mrs. J. A., Jesmond, Tredgold Avenue, Bramhope, Leeds	198
MILLARD, W. A., D.Sc., Sadler House, Lowdale, Sleights, near Whitby	118
MILLER, Miss Elizabeth, Flat 2, University House, University Road, Leeds, 2	209
MILLER, J., 4, Woodburn, Bowling Road, Ben Rhydding	138
MILGATE, M. H., M.A., Ph.D., Flat 5, Hilton Court, 2, North Hill Road, Leeds, 6	121 145
MILLIGAN, M. O., B.A., M.A., 21, St. John's Terrace, Belle Vue Road, Leeds, 3	121, 131 149
MILLS, C. P., M.B., B.S., F.R.C.S., 1, West Park Grove, Leeds, 8	128, 135 189
MILLWARD, Miss FREDA, 70 Whinney Moor Avenue, Lupset, Wakefield	197
MILNE, Emeritus Professor W. P., M.A., LL.D., D.Sc., 16, Monkbridge Road, Leeds, 6	110
MILNER, The Hon. ZAIDÉE, The Grove, North Lane, Leeds 8	182
MILNES, Miss IDA, B.A., 28, Smithies Moor Lane, Batley, Yorks.	143
MITCHELL, A. J., B.Sc., 12, Cromer Terrace, Leeds, 2	158
MITCHELL, K. K., Dip.Phys.Ed., 68, Becketts Park Avenue, Leeds, 6	121 204
MITCHELL, S. C., B.Sc., A.R.I.C., A.M.Inst.F., 1, Gawthorpe Avenue, Bingley Yorks.	125, 133 170
MITCHELL, Miss S. D., B.A., 23a, Gifford Street, Middlesbrough	200
MOBBS, F. R., M.Sc., D.I.C., 5, Garth Avenue, Leeds, 17	125, 133 168
MOGEY, G. A., M.D., Oakroyd, Oak Avenue, Burley-in-Wharfedale, Yorks.	128, 132, 135 180
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MOIR, G. T., The Anglo-Saxon Petroleum Company, Ltd., St. Helen's Court, Great St. Helen's, London, E.C.3	91
MOIR, Professor P. J., M.C., M.B., Ch.B., F.R.C.S., 29, Park Square, Leeds, 1	215
MONSELL, The Right Hon. The Viscountess, Dumbleton Hall, Evesham, Worcestershire	58
MOODY, Miss A. J., 79, The Crescent, Leeds, 16	172
MOODY, D. E., B.Sc., 103, Caledonian Road, Leeds, 1	123, 133 159
MOON, Professor P. B., The University of Birmingham	219
MOOR, Miss S., 16, Moor Drive, Leeds, 6	198
MOORE, HENRY, C.H., Litt.D., D.Litt., LL.D., Hoglands, Perry Green, Much Hadham, Herts.	83
MOORE, Miss J. D., 14, Talbot Avenue, Leeds, 4	200

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MOORE, Rev. W. E., B.A., M.A., B.D., M.Th., 12, Henley Drive, Rawdon, Leeds	121	151
MORGAN, R. E., B.A., Dip.Phys.Ed., Lyddon Hall, Virginia Road, Leeds, 2		204
	87, 102-105, 121, 130, 212, 216	205
MORRIS, Sir CHARLES R., M.A., LL.D., D.Litt., Vice-Chancellor's Lodge, North Hill Road, Leeds, 6	56, 57, 64, 65, 69-86, 88-106, 120, 122, 123, 125, 127, 130, 132, 135, 137-140, 142, 215, 216, 217	206
MORRIS, Lady, O.B.E., Vice Chancellor's Lodge, North Hill Road, Leeds, 6		
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MORRIS, Professor N., Charing Cross Hospital Medical School, 62-65, Chandos Place, London, W.C.2		220
MORRISBY, J. R., B.A., 3, Leadhall Way, Harrogate		121
MORRISON, Miss M., M.A., N.F.F., The Margaret McMillan Memorial Training College, Trinity Road, Bradford, 5	87, 140	165
MORTIMER, R. S., M.A., F.L.A., 60, Gledhow Wood Grove, Leeds, 8		201
MORTON, Mrs. J. E., 24, Southend Avenue, Leeds, 13		182
MOULTON, E., Byways, West End Lane, Horsforth, Leeds		196
MOUNTFORD, Sir JAMES F., M.A., D.Litt., D.C.L., LL.D., The University of Liverpool, Brownlow Hill, Liverpool, 3		61
MOUNTGARRET, The Right Hon. The Viscount, Ripley, Harrogate		58
MOWAT, Professor C. L., The University College of North Wales, Bangor		218
MOXON, Miss H. A., St. John's Girls' School, Clarendon Street, Wakefield		141
MUMBY, F. S., B.A., B.Mus., 25, Gledhow Avenue, Leeds, 8		121
MUNDEN, D. L., B.Sc., 73, Allerton Grange Rise, Leeds, 17	125, 134	173
MUNRO, D. C., M.A., D.Phil., 12, Hollin Mount, Leeds, 16	123, 134	160
MURRAY, Emeritus Professor V., M.A., B.Litt., B.D., 6, Brooklyn, Grassington, Near Skipton		197
MUSTO, Miss N. M., B.A., North Riding Training College, Scarborough		141
MYERS, A., A.I.M.L.T., 93, Lincroft Crescent, Leeds, 13		183
MYERS, J. O., B.Sc., Ph.D., A.M.I.Min.E., 11, Thorn Lane, Haworth Road, Heaton, Bradford, 9	125, 134	169
NAIRN, Miss A., M.A., 13, Woodbine Terrace, Leeds, 6		200
NASH, Mrs. K., 27, Ash Grove, Leeds, 7		180
NEEDHAM, L. W., M.Sc., A.R.I.C., F.Inst.F., Head Wrightson Colliery Engineering Ltd., 46, Rutland Park, Sheffield, 10		169
NELMES, Mrs. B. J., B.Sc., Flat 4, 24, Mount Preston, Leeds, 2		164
NELSON, G. A., M.Sc., Ph.D., F.P.S., F.L.S., 37, The Crescent, Leeds, 16	128, 133	181
NELSON, Miss J. E., Bracken Edge, Secker Lane, Woolley, Wakefield		180
NEVILLE, Miss S. F., Homestead, Canada Crescent, Rawdon, Leeds		158
NEWALL, N., 12, Artist Terrace, Leeds, 12		159
NEWBIGIN, Miss NANCY, M.A., Flat 2, The Oaks, Clarence Road, Horsforth, Leeds	128	188
NEWBOULD, K. M., B.Ch.D., L.D.S., 43, Rodley Lane, Rodley, Leeds	128	195
NEWBY, H., A.I.S.T., 7, Grasmere Place, Leeds, 12		163
NEWELL, Miss BRENDA M., 19, Estcourt Terrace, Leeds, 6		200
NEWLYN, W. T., B.Sc.(Econ.), 61, Grove Lane, Leeds, 6	122, 130	154
NEWMAN, P. P., M.D., 22, Montagu Drive, Leeds, 8	128, 135	179
NEWSTEAD, Miss A. L., Willowgarth, Clifford, Boston Spa, Wetherby		178
NIBLETT, Professor W. R., B.A., B.Litt., University of London Institute of Education, Malet Street, London, W.C.1	216	
NICHOLSON, D. E., B.Sc., Ph.D., F.R.I.C., 33, The Avenue, Leeds, 8	128	183
NICHOLSON, Mrs. G. N., 89, Otley Old Road, Leeds, 16		207
NICHOLSON, H. H., Selwyn College, University of Cambridge	220	

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NICKOLS, P. R., Messrs. Richard Nickols and Son, Ltd., Burley Mills, Leeds, 4	89
NIXON, Mrs. G., 6, Stoneleigh Avenue, Acklam, Middlesbrough	200
NIXON, P. G. F., M.B., B.S., M.R.C.P., 6, Hodgson Avenue, Leeds, 17	128 185
NOACH, A., D.Litt. and Phil., Devonshire Hall, Cumberland Road, Leeds, 6	121, 131 152
NOLTIE, H. R., M.A., B.Sc., 35, Regent Park Terrace, Leeds, 6	128, 133, 135 179
NORTH, Miss C., 11, North Lane, Leeds, 6	170
NORTHCOIT, Professor D. G., The University of Sheffield	219
NORTHROP, Mrs. J., 29, Merton Gardens, Farsley, Leeds	163
NORTON, G. P., M.A., F.C.A., Messrs. Armitage and Norton, Station Street Buildings, Huddersfield	58
NURSTEN, H. E., B.Sc., Ph.D., F.R.I.C., 103, St. Anne's Road, Leeds, 6	125, 133 176
NUTT, RICHARD E., LL.B., Messrs. J. H. Milner and Son, Albion Walk Chambers, off Albion Street, Leeds, 1	88
NUTTALL, J. R., M.D., D.M.R., F.F.R., The General Infirmary, Leeds, 1	128, 135 191
NUTTING, Professor J., M.A., B.Sc., Ph.D., Department of Metallurgy, The University, Leeds, 2	107, 125, 132 171
OAKLEY, Professor C. L., D.Sc., M.D., M.R.C.S., L.R.C.P., F.R.S., 14, Cardigan Road, Leeds, 6	73, 85, 97, 107, 128, 132, 135 182
OATES, K., Flat C6, Belmont Grove, Leeds, 2	164
O'CONNOR, W. J., M.A., M.D., 5, Kelso Road, Leeds, 2	128, 135 179
ODDY, Miss V. M. P., B.A., 4, Westbourne Avenue, Harrogate	146
ODEY, G. W., C.B.E., Messrs. Richard Hodgson and Sons, Ltd., Beverley	89
O'DONNELL, Alderman F. H., J.P., 23, Portland Crescent, Leeds, 1	62, 67
O'DONNELL, J. H., B.Sc., Woodsley Hall, Clarendon Road, Leeds, 2	161 205
OFFOR, RICHARD, B.A., Ph.D., F.L.A., 24, Tangier Road, Guildford, Surrey	110, 118
OLDFIELD, A., 59, Wensley Road, Leeds, 7	178
OLDFIELD, J. W. A., 175, Leeds-Whitehall Road, Wyke, Bradford	206
OLDFIELD, M. W. C., M.B.E., M.A., D.M., M.Ch., F.R.C.S., 25a, Park Square, Leeds, 1	128, 135 188
OLDMAN, C. B., C.B., C.V.O., M.A., D.Mus., Litt.D., F.S.A., Flat 3, 37-41 Gower Street, London, W.C.1	72
OLDMAN, H., M.A., Chief Education Officer, Education Offices, 5, St. Leonard's Place, York	80, 87, 139, 140
OLDROYD, Miss K., B.Com., 171, Hookstone Road, Harrogate	206
ONIONS, W. J., B.Sc., 33, Weetwood Lane, Leeds, 6	125, 133 173
ORTON, Professor H., B.Litt., M.A., 11, Harrowby Crescent, Leeds, 16	69, 72, 90, 101, 108, 121, 130, 138, 211 145
OTTAWAY, A. K. C., B.Sc., M.A., A.R.C.S., Beech Cottage, Chapel Street, Leeds, 15	121, 130, 141, 214 151
OVER, G. A., B.A., Allonby House, New Road Side, Rawdon, Leeds	121, 131 145
OVERTON, R., 6, Lyddon Terrace, Leeds, 2	206
OVERTON, Miss S., 24, Recreation Place, Leeds, 11	203
OWEN, Mrs. M., A.M.I.A., 17, St. Chad's Drive, Leeds, 6	187
OWEN, P. E., M.A., L. ès L., 33, Wren Beck Drive, Otley	121, 141, 216 197
OWEN, R. W., M.Sc., Ph.D., 7, Moor Allerton Way, Leeds, 17	123, 134 163
PADGETT, Miss A. P., 62, The Drive, Leeds, 17	186
PAGE, B. S., M.A., Elmfield Lodge, Cumberland Road, Leeds, 6	62, 71, 80, 108, 121, 130, 132, 135, 210, 214 201

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PALLEN, R. H., M.Sc., Ph.D., 9, Manor Grove, Leeds, 7	161
PALMER, Squadron Leader A.V.E., University Air Squadron, The University, Leeds, 2	209
PALMER, E. K., L.D.S., 307, Killinghall Road, Bradford	128 196
PALMER, J., 20, Hare Park Mount, Leeds, 12	159
PALMER, J., B.A., Department of Geography, The University, Leeds, 2	121, 133 149
PALMER, W. B., M.A., Ph.D., A.M.I.Mech.E., 2, The Avenue, Leeds, 8	125, 134 168
PANES, Miss C. M. D., 7, Woodsley Terrace, Leeds, 2	193
PAPINI, G., Dott.in Fis., Department of Mathematics, The University, Leeds, 2	123 158
PARK, Miss D. C., M.Sc., 65, Clarendon Road, Leeds, 2	128 182
PARKER, D. B., LL.B., 39, Park Square, Leeds, 1	122 156
PARKER, K. D., B.A., Ph.D., 5a, Woodhouse Cliff, Leeds, 6	165 209
PARKIN, The Rev. V., M.A., B.Sc., Wesley College, Leeds, 6	121 151
PARNABY, Miss M. C., M.A., B.Ed., City of Leeds Training College, Beckett Park, Leeds, 6	87, 141 211
PARRY, Miss OLWEN A., B.A., M.A., 36, Copgrove Road, Leeds, 8	121, 131, 211, 213 144
PARSONAGE, M. J., B.Sc., M.B., Ch.B., M.R.C.P., D.C.H., 26, Duchy Road, Harrogate	128, 135 186
PARSONS, F. M., B.Sc., M.B., Ch.B., 33, Gledhow Wood Road, Leeds, 8	190
PARSONS, Mrs. MARJORIE, M.B., Ch.B., 33, Gledhow Wood Road, Leeds, 8	184
PASSEY, Emeritus Professor R. D., M.C., M.D., D.P.H., L.R.C.P., M.R.C.S., The Chester Beatty Research Institute, Fulham Road, London, S.W.3	110
PATRICK, Mrs. A. D., B.L., 23, Cromer Terrace, Leeds, 2	206
PATTERSON, D., M.Sc., Ph.D., 8, Woodlands Close, Harrogate	125, 134 175
PATTISON, R., B.Sc.(Econ.), Saltaire County Secondary School, Shipley	141
PAUL, W. DERRICK, Messrs. William Paul, Ltd., Oak Tannery, Kirkstall Road, Leeds, 3	89
PAUTARD, F. G. E., M.Sc., Ph.D., A.R.I.C., 51, Easterly Avenue, Leeds, 8	123 165
PEACOCK, Miss S., Sinclair, Stirling Road, Burley-in-Wharfedale	207
PEARCE, Alderman Mrs. M., J.P., 24, Springfield Mount, Leeds, 2	60
PEARSON, C. H., B.Sc., Flat 4, 9, Cavendish Road, Leeds, 1	125, 134 176
PECK, A., B.Sc., A.M.I.M.M., The Bungalow, Brandon Crescent, Leeds, 17	125, 133 169
PECK, S., A.I.M.L.T., 94, Deanswood Drive, Leeds, 17	183
PEDDIE, R., C.A., Secretary, United Steel, 17, Westbourne Road, Sheffield, 10	69
PEDLEY, J. B., M.Sc., Glen Garth, Mill Hill, Haworth, Keighley	123 161
PEGG, A. L., A.R.P.S., 80, Gipton Wood Road, Leeds, 8	205
PEIRSE, Miss B. L., The Lodge, Richmond, Yorks.	200
PEMBERTON, R., D.S.C., A.R.I.B.A., 12, Layton Mount, Rawdon, Leeds	206 167
PENZOL, P., L.D., M.A., Asturias, Puerto de Vega, Spain	119
PEPPER, K. W., D.Sc., Ph.D., British Leather Manufacturers' Research Association, Milton Park, Egham, Surrey	89
PERKIN, L. C., 89, Shaftesbury Avenue, Leeds, 8	105
PERROTT, I. B., M.A., Kylemore, Billams Hill, Otley	121, 133 157
PERRY, Professor W. L. M., University of Edinburgh	219, 220
PETCH, C. S., 3, Parkstone Green, Leeds, 16	102 169
PETERS, A. T., Ph.D., D.Sc., A.Mus.T.C.L., 458, Stonegate Road, Leeds, 17	125, 132 175
PETERS, L., B.Sc., M.Sc., Ph.D., 89, Victoria Road, Leeds, 6	125, 133 173
PETTIFER, Miss J. M. E., B.A., Burghclere, 91, Bawtry Road, Bessacarr, Doncaster	202
PHILLIPS, Mrs. DOROTHY UNA McGRIGOR, LL.D., 42, Ann Street, Edinburgh, 4	58, 72 201

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NAMES AND ADDRESSES

		Staff List
PHILLIPS, H. A., 1, St. Mark's Avenue, Leeds, 2	105	
PHILPOTT, Miss M.E., 14, Weetwood Avenue, Leeds, 16		174
PHILSON, Miss P. M., 1, Shadwell Walk, Leeds, 17		204
PICKLES, F., M.Sc., 83, Grange Road, Allerton, Bradford	119	
PICKLES, Alderman Miss MARY, 54, Warley Road, Halifax 60, 63, 64, 67, 104, 138		
PICKUP, Mrs. H. H., Farfield House, Bramham, Boston Spa		207
PILMER, Councillor G., 8, Milton Crescent, Lupset, Wakefield 60, 66, 87		
PIPER, Miss R. J. T., A.I.M.L.T., Flat 1, 103, Caledonian Road, Leeds, 2		182
PITHER, Miss LETTICE M., M.I.M.A., Oxley Hall, Leeds, 16	215	204
PITMAN, Miss W. P., 8, Raynville Grove, Leeds, 13	213	207
PITTARD, C. J., Messrs. C. W. Pittard and Co. Ltd., Sherbourne Road, Yeovil, Somerset	89	
PLUMMER, H., 18, Castle Grove Avenue, Leeds, 6		208
POLLARD, A., B.Sc., A.R.I.C., A.M.I.Chem.E., 74, Gledhow Lane, Leeds, 8		
POLSON, Professor C. J., M.D., F.R.C.P., M.R.C.S., Barrister-at-Law, 16, Tewit Well Road, Harrogate 125, 133, 209		171
PONTEFRACT, Mrs. M. A., 4, Crawshaw Gardens, Pudsey, Leeds 85, 108, 128, 135, 195, 212		193
POOLE, D. I., A.T.I., 1063, Grangefield Avenue, Thornbury, Bradford, 3	202	197
POSTILL, Mrs. S., 6, Lodge Lane, Beeston, Leeds, 11		174
POTTS, W. L. J., B.Sc., A.R.I.C.S., A.M.I.Min.E., 174, Nursery Lane, Leeds, 17	125, 133, 214	200
POUSAO, Miss S., Licda. em. Fil. e Let., Department of Spanish, The University, Leeds, 2		169
PRESTON, Professor R. D., Ph.D., D.Sc., F.Inst.P., F.L.S., F.R.S., Berkstone, 233, Otley Road, Leeds, 16	123, 132, 135, 212	148
PRICE, Miss B. M., B.Sc., 107, Becketts Park Crescent, Leeds, 6		163
PRICE, H. L., M.A., M.Sc., Ph.D., 11, West Park Place, Leeds, 8	123, 132	157
PRICE, Sir HENRY P., Bt., Wakehurst Place, Ardingley, Sussex	58	184
PRICE, P. STANLEY, Q.C., 37, Park Square, Leeds, 1	88	157
PRICE TURNER, W., 21, St. John's Terrace, Belle Vue Road, Leeds, 3		
PRICHARD, W. J., M.Com., 23, Moor Drive, Leeds, 6	122, 137	145
PRIESTLEY, GEORGE, M.A., Hazeldene, Mount Pleasant, Robin Hoods Bay 71, 119		200
PRIESTLEY, Mrs. J. H., 50, Hinton Way, Great Shelford, Cambridge	92	
PRIESTLEY, Miss M., 29, Queenswood Drive, Leeds, 6		198
PRIESTMAN, G., M.B., Ch.B., 546, Toller Lane, Bradford	92	
PRINCE, Miss M., B.Sc., 59, Victoria Road, Leeds, 6		180
PRINGLE, G. E., B.A., Ph.D., A.Inst.P., 1, Alder Hill Cottages, Stonegate Road, Leeds, 6	123, 133	160
PRIOR, A. G., M.A., 26, Sefton Avenue, Leeds, 11	87	
PRIOR, Professor A. N., University of Manchester	218	
PRITCHARD, F. C., M.A., Ph.D., Woodhouse Grove School, Apperley Bridge, Bradford	87	
PROSSER, L. J., M.B., Ch.B., 39, Harlow Oval, Harrogate	92	
PROUD, J. R., B.Sc., N.D.A., Headley Hall Farm, near Tadcaster		176
PURTON, M. J., B.Sc., M.Sc., 13, North Hill Road, Headingley, Leeds, 6		159
PYBUS, A. E., L.R.A.M., 15, William Rise, Leeds, 15	118	
PYE, J. W., B.Sc., 13, Midland Road, Leeds, 6		172
PYRAH, Professor L. N., M.Sc., Ch.M., F.R.C.S., 29, Park Square, Leeds, 1	73, 108, 128, 135	190
QUANTRILL, Miss V. S., 124, Claremont Road, Boothtown, Halifax		202
QUICK, P., B.A., 67, Cookridge Drive, Leeds, 16		206

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RADFORD, Miss JEAN B. D., 36, Hollin Lane, Leeds, 16			178
RADFORD, W. G., A.I.S.T., 34, Gledhow Wood Avenue, Leeds, 8			168
RAINNIE, G. F., M.A., 9, St. Michael's Crescent, Leeds, 6	122, 131		154
RAMSEY, Alderman B., C.B.E., 27, Thornfield Road, Linthorpe, Middlesbrough	60, 66		
RAMWELL, P. W., B.Sc., Ph.D., 37, Moor Grange View, Leeds, 16			191
RANDALL, Councillor W., 33, Orwell Street, Middlesbrough		138	
RAPER, Miss D., Woodland View, Bramham Road, Clifford, Boston Spa		149	151
RAPER, F. P., M.B., Ch.B., F.R.C.S., Eastfield, Dib Lane, Leeds, 8	128, 135		190
RAPER, G. F., M.A., Storrs Gate, Bowness, Windermere			173
RATTENBURY, The Rev. H. M., M.A., Wesley College, Leeds, 6	105, 121		151
RAVETZ, J. R., B.A., Ph.D., 68, Chapel Lane, Leeds, 6		123	149
RAWSON, Mrs. J. A., M.A., Department of Italian Language, The University, Leeds, 2			147
RAYBOULD, Professor S. G., B.Sc.(Econ.), Ph.D., 49, Kent Road, Harrogate	87, 108, 121, 130, 136, 137, 210, 214		199
RAYNER, Miss DOROTHY H., M.A., Ph.D., 16, Moor Park Drive, Leeds, 6			
	123, 132, 212, 214		164
READ, D., B.Litt., M.A., 103, Tinhill Road, Cookridge, Leeds, 16		121	148
READ, D. A., B.Sc., Ph.D., 38, Morris Lane, Kirkstall, Leeds, 5		123	159
READ, Miss E. M., B.A., A.L.A., 13, Burton Crescent, Leeds, 6			200
READ, Sir HERBERT, Kt., D.S.O., M.C., Litt.D., M.A., Stonegrave House, Stonegrave, York			83
READ, Emeritus Professor T. TALMAGE, M.Ch.D., F.R.F.D.S.(G.), F.D.F.R.C.S., H.H.D.(G.), L.R.C.P.E., Fairlands, Foxhill Drive, Weetwood, Leeds, 16		110	
READ, W. J., 15, Carberry Avenue, Southbourne, Bournemouth			58
REAKS, G., M.A., British Leather Federation, 9, St. Thomas Street, London, S.E.1			89
RECKERT, Professor S., The University College of South Wales, Cardiff			218
REDMAN, T. F., T.D., M.B., Ch.B., F.R.C.S.E., F.R.C.O.G., 29, Park Square, Leeds, 1			191
REED, G. W., M.Sc., 23, Temple Gate, Leeds, 15		128	191
REED, R., M.Sc., Ph.D., 3, Woodhall Park Avenue, Stanningley, Leeds			
	125, 133		176
REEDER, Miss B. A., 68, Black Moor Road, Leeds, 17			198
REES, E. T., B.A., Hartshead Vicarage, Liversedge			200
REES, J. K. S., M.A., 41, Front Street, Acomb, York			177
REES, W. J., B.A., M.A., 20, Bracken Edge, Leeds, 8	121, 131, 134		149
REEVES, C. M., M.A., Ph.D., 35, Kingsley Avenue, Leeds, 16		123	158
REID, The Rev. Professor J. K. S., M.A., B.D., D.D., 44, Headingley Mount, Leeds, 6	87, 108, 121, 130, 210, 211, 217		150
RENNIE, Miss J. M. M., M.A., Underwood Grange, Rawdon, Leeds			206
RUEBEN, Miss S. J., 54, Carr Manor Road, Leeds, 17			207
REX, J. A., B.A., Ph.D., Flat B, 90, Clarendon Road, Leeds, 2	122, 138		155
RHODES, Miss L., University House, University Road, Leeds, 2			209
RHODES, P., B.Sc., Ph.D., A.Inst.P., 244, Harrogate Road, Leeds, 7			
	123, 133		159
RICH, R. W., M.A., Ph.D., City of Leeds Training College, Beckett Park, Leeds, 6	87, 140, 141		
RICHARDS, G. O., M.A., Mus.B., F.R.C.O., Oakdene, Newlay Wood Drive, Horsforth, Leeds			197
RICHARDSON, A., B.Sc., A.M.I.E.E., A.M.Brit.I.R.E., Flat 2, 33, Shire Oak Road, Leeds, 6	125, 132		168
RICHARDSON, G. W., M.A., 24, Weetwood Road, Leeds, 16	121, 130		148
RICHARDSON, Miss J. E., M.A., Department of Education, The University, Bristol 8			197

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RICHARDSON, Emeritus Professor J. H., M.A., Ph.D., 7, Otley Road, Harrogate	110	
RICHARDSON, NIGEL W., M.C., T.D., J.P., F.R.I.C.S., F.A.I., 14, Park Crescent, Leeds, 8	63, 67, 71, 76, 81, 84, 85, 96, 100, 101	
RICKETTS, T. R., B.Sc., 2, Grosvenor Terrace, Leeds, 6		182
RIDDINGTON, Miss B. M., 67, Seaforth Avenue, Leeds, 9		207
RIDER, S., 60, Mexborough Drive, Leeds, 7		167
RIDSDALE, Miss B. D., 6, Locarno Avenue, Bradford, 9		200
RIGBY, W., B.Sc., Ph.D., Ph.C., 28, Parklands Gate, Bramhope, Leeds	123, 133	162
RILEY, Miss D., A.R.C.A., Margaret McMillan Training College, Trinity Road, Bradford 5		141
RIMMER, W. G., M.A., A.M., 3, Vale Avenue, Leeds, 8		121 148
RINGSLEBEN, Miss M. R. E., B.A., Ph.D., 24, Regent Park Terrace, Leeds, 6		206
RIPON, The Right Rev. The Lord Bishop of, M.A., D.D., Bishop Mount, Ripon	57	
ROBERTS, Professor A. L., B.Sc., Ph.D., F.Inst.F., F.R.I.C., F.I.Ceram., Hon.M.Inst.Gas E., Hillside, 6, King's Road, Bramhope, Leeds	63, 66, 71, 91, 108, 125, 132, 195, 210, 214, 217	170
ROBERTS, J. M., M.D., D.P.M., 21, Fearnville Place, Leeds, 8		128, 135 188
ROBERTS, J. P., M.A., B.Sc., Ph.D., A.Inst.P., F.I.Ceram., Woodley Hall, Clarendon Road, Leeds, 2		125, 133, 211 171
ROBERTS, W. N., M.A., 25, St. Martin's Road, Leeds, 7		172
ROBERTSON, D. M., B.Sc., Ph.D., A.R.I.C., 1, High Street, Starbeck, Harrogate		181
ROBERTSON, G. H., University of Edinburgh		218
ROBERTSON, J. H., B.Sc., Ph.D., A.R.I.C., 38, Headingley Lane, Leeds, 6	123, 134	160
ROBERTSON, Professor J. M., University of Glasgow		219
ROBERTSON, Miss R., 20, Crescent Gardens, Leeds, 17		202
ROBINSON, Miss C., Dargai Street, Leeds, 7		203
ROBINSON, Mrs. EDITH, B.Sc., Ph.D., 1, Grange Court, Leeds, 6	123, 213	163
ROBINSON, H., 88, Scott Hall Road, Leeds, 7		167
ROBINSON, Miss MARY P., 14, The Turnways, Leeds, 6		196
ROBSON, Miss W. F., M.A., 143, Gledhow Valley Road, Leeds, 7		118
ROCHE, J. W., The Grammar School, Barnsley		62
RODGERS, Miss M. E., 14, Talbot Avenue, Leeds, 8		207
ROGERS, E., B.A., 9, Brooklands Terrace, Skipton, Yorks.		138
ROGERS, H. C., B.A., Glenaire, Raikes Wood, Skipton, Yorks.		138
ROMSTEDT, Fräulein H., Tetley Hall, Moor Road, Leeds, 6		147
ROOK, Dr. A., 12, Brook Street, Cambridge		220
ROOKE, Miss J. M., B.Sc., A.Inst.P., 3, Meadow End, Bramhope, Leeds		164
ROSE, G. A., D.M., M.A., A.R.I.C., 6, Moor Allerton Gardens, Leeds, 17	128	185
ROSE, H. E., B.Sc., Department of Mathematics, The University, Leeds, 2	123	157
ROSE, Mrs. V. C., Leacroft, 11, The Fairway, Leeds, 17		198
ROSE, Miss V. C. C., Leacroft, 11, The Fairway, Leeds, 17		158
ROSE, W. H., M.Sc., M.I.C.E.I., M.I.Struct.E., F.G.S., Messrs. G. & T. Earle, Ltd., Wilmington, Hull		167
ROSS, Miss D., 29, Park Lane, Leeds, 8		202
ROSS, J. H., B.Ch.D., L.D.S., 9a, The Poplars, Bramhope, Leeds	128	194
ROTH, Professor M., Kings College, University of Durham	220	
ROTHERY, P., 45, Cliff Road, Leeds, 6		158
ROTHSTEIN, E., Ph.D., D.Sc., A.R.C.S., 107, West End Avenue, Harrogate		
	123, 132	162
ROTHWELL, W., M.A., Doc. de l'Université de Paris, 179, Stonegate Road, Leeds, 6		121 146
ROWE, K. R., M.A., 25, The Drive, Alwoodley, Leeds, 17	121, 131	144
ROWE, R., M.A., A.M.A., Temple Newsam House, Leeds		71
ROWELL, J. A., B.Sc., The Grammar School, Leeds, 2		165
ROWELL, N. R., M.B., B.S., M.R.C.P., D.C.H., 8, West End Close, Hall Lane, Horsforth, Leeds		128 185

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ROWLAND-JONES, A., M.A., 66, Henconner Lane, Leeds, 7			206
RUDALL, K. M., M.Sc., Ph.D., D.Sc., 14, Farrar Lane, Leeds, 16	123, 132		165
RUMFITT, A., F.I.M.L.T., A.I.S.T., 55, Ridgeway, Leeds, 8			182
RUNTON, County Alderman Mrs. K. RYDER, C.B.E., Wheatley Chase, Ben Rhydding, Ilkley, Yorks.			59
RUSBY, Dr. J. E., O.B.E., M.C., T.D., J.P., 10, Ring Road, Shadwell, Leeds, 17			94
RUSE, Professor H. S., M.A., D.Sc., F.R.S.E., The University, Leeds, 2			
	78, 103, 104, 105, 108, 124, 130, 132, 210, 212		157
RUSSELL, The Rev. Principal D. S., B.D., B.Litt., M.A., Rawdon College, Rawdon, Leeds			150
		121, 131	
RYDER, Professor E. C., University of London		219	
ST. EDMUNDSBURY AND IPSWICH, The Rt. Rev. the Lord Bishop of, M.A., LL.B., D.D., Bishop's House, Ipswich			94
SALT, Miss P. A., 5, Lidgett Park Avenue, Leeds, 8			207
SALTER, H., F.I.S.T., 30, Cliff Mount, Leeds, 6		77, 102	180
SALVAGE, B. F., B.Sc., Ph.D., M.I.E.E., 10, Wetherby Road, Leeds, 8			169
SAMPSON, The Rev. Canon C. B., Q.H.C., M.A., Leeds Vicarage, 81, Clarendon Road, Leeds, 2		63, 67, 104	
SANDERSON, S. F., M.A., 433, Harrogate Road, Leeds, 17		121	145
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SARGAN, J. D., M.A., 6, Moor Park Drive, Leeds, 6		122, 130	154
SARJANT, Emeritus Professor R. J., O.B.E., D.Sc., F.Inst.F., 80, Totley Nook Road, Totley Rise, Sheffield			75
SARJEANT, Captain L. J., The Dower House, Wheatley Lane, Ben Rhydding, Ilkley			79
SATTERTHWAITE, Miss M., M.Sc., 68, Cliff Road, Leeds, 6			182
SAUNDERS, J. W., M.A., B.Litt., 91, Cambridge Road, Linthorpe, Middlesbrough			
	121, 137, 213, 214, 217		199
SAUNDERS, M., B.Ch.D., L.D.S., 128, Street Lane, Leeds, 8		128	194
SAWYER, Miss M., 27, Raynel Drive, Leeds, 16			159
SAXTON, J. E., M.A., B.Sc., D.Phil., 30, Parklands, Bramhope, Leeds 124, 134			162
SCARBROUGH, The Right Hon. The Earl of, K.G., P.C., G.C.S.I., G.C.I.E., G.C.V.O., T.D., LL.D., Sandbeck Park, Rotherham, Yorks.			57
SCARGILL, Alderman M., c/o The Town Hall, Dewsbury			60
SCARR, F., 19, Lingfield Drive, Leeds, 17			194
SCHEIN, Miss N. E., B.S., 24, Springbank Crescent, Leeds, 6			160
SCHOFIELD, Miss M., Dip.Phys.Ed., Department of Physical Education, The University, Leeds, 2			124
SCHOFIELD, P. J., B.A., M.A., LL.B., 20, Monkbridge Road, Leeds, 6			122
SCHOLTZ, J., 7, Graveleythorpe Road, Leeds, 15			125
SCOTT, Mrs. E., Graham House, 124, Redhill Drive, Airedale, Castleford			197
SCOTT, J. R., 7, Chatsworth Road, Leeds, 8			164
SCOTT, Miss L. I., M.Sc., F.L.S., 96, West Coker Road, Yeovil, Somerset			118
SCOTT, Rev. Dr. P., University of Manchester			218
SCOTT, R. A. MURRAY, M.A., M.D., 239, Harrogate Road, Leeds, 17			128
		63, 65, 80	185
SCRUTON, Alderman R., The Croft, Grange Garth, York			
SEDGWICK, G. F., Blenheim Institute, Blackman Lane, Leeds, 2	80, 137, 138, 139		
SEEDS, W. E., B.A., B.Sc., Ph.D., Department of Biomolecular Structure, The University, Leeds, 2			165
SELBY, D. R., A.T.D., Leeds College of Art, Vernon Street, Leeds, 2			141
SELBY, Miss G. V. M., Netherscar, Chapel-le-Dale, via Carnforth, Lancs.			118
SEMPLE, Professor W. H., University of Manchester			218
SENIOR, Miss M., 151, Broadway, Horsforth, Leeds			207
SEYMOUR, E. F. W., M.A., D.Phil., A.Inst.P., 26, Carr Manor Road, Leeds, 17			
	124, 133		159

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SHACKLETON, Miss V., 186, Park Road, Guiseley, Leeds	202	174
SHACKLOCK, C. W., Ph.D., M.Sc., F.R.I.C., F.I.R.I., Dewsbury and Batley Technical College, Dewsbury	87	
SHAPLEY, C. S., O.B.E., M.I.Mech.E., M.Inst.Gas E., Roman Way, Alwoodley Lane, Leeds, 17	75	
SHARP, J. A., M.B., Ch.B., Ph.D., 11, Cumberland Road, Leeds, 6	128	179
SHARP, Miss M., 20, Park Avenue, Outwood, Wakefield		207
SHARPER, Miss L. HELEN, Flat 10, 19, Cromer Terrace, Leeds, 2		178
SHAW, D. L., M.B., Ch.B., F.R.C.S., Havelock House, Hook Road, Goole		212
SHAW, Councillor C., M.Sc., Ph.D., 1, Lumb Lane, Almondbury, Huddersfield	87	
SHAW, G. A., 33, Temple Rhydding Drive, Baildon, Shipley		164
SHAW, Mrs. I. B., J.P., Grey Willows, Huntington, York	94	
SHAW, Miss J. E., North Grange, North Grange Road, Leeds, 6		168
SHAW, R., B.A., 34, Farfield Road, Shipley	121, 137, 138	199
SHAW, S. H., O.B.E., Ph.D., A.R.S.M., M.I.M.M., Director, Colonial Geological Surveys Imperial Institute, South Kensington, London, S.W.1	82	
SHAW, W. M. H., B.Sc., M.B., Ch.B., F.R.C.S., High Trees, Beechwood, Brownberrie Lane, Horsforth, Leeds	128	189
SHEA, F. W., M.B., B.S., M.Ch.Orth., F.R.C.S., 358, Oakwood Lane, Leeds, 8		189
SHEARD, P. M., B.A., F.C.A., 11, Stanley Drive, Leeds, 7	60, 122, 130, 211, 216	154
SHEEPSHANKS, Lt.-Col. A. C., D.S.O., M.A., Arthington Hall, Leeds	61	
SHELDRIK, B., B.Sc., 17, Nethercliffe Crescent, Guiseley, Leeds		160
SHEVADE, V. S., B.Sc., 33, Cromer Terrace, Leeds, 2		175
SHELL, F. A. O'M., M.B., B.Ch., B.A.O., B.Sc., 451, Otley Road, Leeds, 16	128	181
SHILTON, R., B.Sc.(Eng.), A.M.I.Mech.E., M.I.Prod.E., Fairholme, Thornfield Road, Lockwood, Huddersfield	125, 132	168
SHIMMIN, Emeritus Professor A. N., C.B.E., M.A., Hebans, Wheatley Lane, Ben Rhydding, Ilkley	110, 213	
SHIRT, Miss M. A., M.A., Ellerslie Hall, Leeds, 2	121, 205	152
SHONE, J. A. V., L.M.S.S.A., L.R.C.P., M.R.C.S., The Fair Havens, Creskeld Lane, Bramhope, Leeds		181
SHORROCKS, Mrs. L., 62, Otley Old Road, Leeds, 16		147
SHORTRIDGE, D., Hillcrest, Hilltop, Leeds, 6	73	
SHUCKSMITH, H. S., T.D., B.Sc., M.B., Ch.B., F.R.C.S., 29, Park Square, Leeds, 1	128, 135	188
SHUTTLEWORTH, R., B.Sc., Ph.D., 7, Monkbridge Road, Leeds, 6	125, 133	172
SIDDLE, F. J., B.Sc., Ph.D., 14, Warwick Crescent, St. James Park, Harrogate	99	
SIDE, H. J. A., B.A., 5a, Woodhouse Cliff, Leeds, 6		174
SIGSWORTH, E. M., B.A., Ph.D., Church Hill, Thorner, Leeds	122, 131	154
SIKORSKI, J., Dipl.Ing., M.Sc., Ph.D., A.Inst.P., 37, Moor Park Villas, Leeds, 6		174
SILCOX, Miss L. A., Royd, Arnside, via Carnforth, Lancs.	118	
SIMCOCK, N. D., 8, Moorlands View, Halifax		208
SIMPSON, Mrs. H., 10, Eldon Terrace, Leeds, 2		158
SIMPSON, HUGH B., M.A., 41, Park Square, Leeds, 1	63, 64, 67, 82, 103	
SIMPSON, I. G., M.Sc., 91, Victoria Road, Leeds, 6	126	178
SIMPSON, Mrs. MORAG C., B.Sc.(Econ.), M.Sc.(Agric.), 91, Victoria Road, Leeds, 6	126	178
SINGLETON, F. B., M.A., 4, Grove Court, Grove Road, Pudsey, near Leeds	138	
SISSONS, Miss EDNA, B.Sc., 75, Becketts Park Crescent, Leeds, 6	143	
SKERTCHLY, A., B.Sc., M.Sc., Ph.D., A.Inst.P., 6, Ridgeway, Gledhow, Leeds, 8	126	174
SKINNERS COMPANY, MASTER OF (John F. E. Goad, O.B.E.), 8, Dowgate Hill, London, E.C.4	59, 89	
SLATER, N. B., M.A., Ph.D., F.R.S.E., 3, Grosvenor Terrace, Leeds, 6		
	80, 109, 124, 132, 138, 205, 213	157

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			Staff List
SLAUGHTER, C., B.A., 30, Cross Green Lane, Leeds, 15	122		155
SLEDGE, W. A., B.Sc., Ph.D., 9, St. Chad's Drive, Leeds, 6	60, 124, 132		163
SLEDGE, Mrs. W. A., B.A., 9, St. Chad's Drive, Leeds, 6	97, 104, 105,		203
SMAILLES, Miss P. M., Brook House, Gilling East, York			202
SMELLE, Professor K. B., London School of Economics and Political Science, University of London	219		
SMIDDY, F. G., M.B., Ch.M., F.R.C.S., 26, Sutherland Avenue, Leeds, 8	128, 135		189
SMITH, Miss A. F., 65, Newlay Lane, Whitecote, Leeds, 13			200
SMITH, A. G., A.R.C.S., B.Sc., D.I.C., A.F.R.Ae.S., Blackburn & General Aircraft Co., Brough, E. Yorks.	78		
SMITH, C. C., M.A., Ph.D., 45, Moor Park Villas, Leeds, 6	60, 121, 131		148
SMITH, D. R., B.Sc., Lyddon Hall, Virginia Road, Leeds, 2			161
SMITH, Mrs. DORIS N. AMBERY, L.R.C.P., M.R.C.S., D.A., F.F.A.R.C.S., Dean's Cottage, 8, King's Place, Leeds, 6	128		190
SMITH, Miss G., Yorkshire Training College of Housecraft, Vernon Road, Leeds, 1	87, 141		
SMITH, G. F., Ph.D., Beechwood, Collingham, Wetherby, Yorks.			
SMITH, Colonel Sir HAROLD, K.B.E., D.L., J.P., M.I.C.E., Hon.M.Inst.Gas E., Cowslade Farm, Hartley Wintney, Hampshire	109, 124, 132, 136		161
SMITH, County Alderman Mrs. J., Wood View, Manchester Road, Marsden, Huddersfield	75		
SMITH, J. A. S., M.A., D.Phil., 146, Otley Road, Leeds, 6	59, 87, 92		
SMITH, County Alderman J. FULLER, J.P., 28, Carr Road, Calverley, near Leeds	124, 134		160
	63, 65		
SMITH, Mrs. KATHLEEN, 26, Oakwood Walk, Leeds, 8			194
SMITH, Miss M. METCALFE, M.A., N.F.F., Dipl. Psych., 19, Cardigan Road, Leeds, 6	121, 141, 211		197
SMITH, P. A., B.Sc., 21, Long Meadows, Bramhope, Leeds	126		173
SMITH, R. A., 34, Hollin Park Road, Leeds, 8			208
SMITH, T. J. B., B.Sc., Flat 2, Ridge End Court, Shire Oak Road, Leeds, 6			172
SMITHIES, D., B.Sc., Ph.D., Flat 2, 1 West Hill Terrace, Leeds, 7			161
SNAITH, The Rev. Principal N. H., M.A., D.D., Wesley College, Leeds, 6	121		150
SNOWBALL, Miss M., 27, High Street, Cleckheaton	138		
SNOWBALL, S., F.S.A.A., F.T.I.L., 9, Farrar Lane, Leeds, 16			154
SNOWDEN, D. C., M.Sc., F.T.I., Cruachan, 27, Gainsborough Avenue, Leeds, 16	126, 132, 215		173
SOBEY, F. T., O.B.E., M.C., Messrs. E. Wadsworth & Son, Ltd., Broomfield Mills, Cleckheaton	99		
SOLLITT, E., 34, Ash Road, Leeds, 6			166
SOULSBY, J. A., M.A., Department of Geography, The University, Leeds, 2			149
SOUTHAM, F. L., L.D.S., 309, Harrogate Road, Leeds, 17			196
SPALDING, A., B.A., Director of Education, Town Hall, Bradford	60, 87, 140		
SPAUL, Professor E. A., Ph.D., D.Sc., 14, Weetwood Road, Leeds, 16	90		
SPEAKMAN, Professor J. B., D.Sc., F.R.I.C., F.T.I.(Hon.), 181, Otley Road, Leeds, 6	64, 80, 81, 89, 96, 98, 108, 126, 130, 132, 215-17		173
SPEAKMAN, P. T., M.A., D.Phil., 181, Otley Road, Leeds, 6	126, 174		205
SPEEDING, Miss K., Gomersal Hall, near Leeds			207
SPEIGHT, H., B.A., 43, Low Lane, Durkar, Wakefield	122, 213, 217		154
SPENCER-PEET, J., M.B., B.S., 41, King George Avenue, Leeds, 7	128		182
SPICER, A., B.A., L. ès L., 72, Rawdon Road, Horsforth, Leeds	121		152
SPIERS, Professor F. W., Ph.D., D.Sc., Lanesfield House, Old Lane, Bramhope	73, 85, 108, 128, 136, 195, 215		192
SPILLINGS, Miss B. C., 13, Moorland Crescent, Guiseley, Leeds			165
SQUIBBS, Miss A. E. A., S.R.N., D.N., S.T.D., The General Infirmary, Leeds, 1			185
STAFF OFFICER (Educn.), NORTHERN COMMAND (NORTH), Catterick Camp, Yorks.			138

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STAFF OFFICER (Educn.), NORTHERN COMMAND (SOUTH), H.Q. North Midland, Nottingham	138
STAGG, K. G., B.Sc., 29, Vernon Road, Leeds, 1	170
STANTHORPE, E. S., 42, Hill Court Drive, Leeds, 13	180
STAINSBY, G., M.A., Ph.D., F.R.I.C., 29, Gainsborough Avenue, Adel, Leeds, 16	126, 134 176
STANSFIELD, H., M.Sc., A.M.I.Mech.E., Laurel Dene, 10, Henley Drive, Rawdon, Leeds	126, 214 168
STANSFIELD, Mrs. J., 33, Beechwood Avenue, Bradford, 6	87
STANSFIELD, Miss M. P., School of Dentistry, Leeds, 2	196
STANSFIELD, W. S., F.T.I., High Trees, Wyke, Bradford	99
STEAD, Miss AUDREY C., 4, Hillingdon Way, Leeds, 17	145
STEAD, P., Messrs. C. F. Stead and Co., Ltd., Sheepscar Leather Works, Leeds, 7	89
STEELE, L. W., A.B., Ph.D., M.B.A., Department of Economics and Commerce, The University Leeds, 2	153
STEIN, W., B.A., Brooklyn, Parish Ghyll Road, Ilkley	121, 137 199
STEINER, Miss ELISE, Dip. Soc. Studies, 26, Blenheim Terrace, Woodhouse Lane, Leeds, 2	215 197
STEPHENSON, Miss D. M., 31, Moor Park Villas, Leeds, 6	155
STEPHENSON, F., B.A., City of Leeds Training College, Beckett Park, Leeds, 6	141
STEPHENSON, L. M., B.Sc. (Eng.), Ph.D., A.C.G.I., 48, Long Meadows, Bramhope, Leeds	126 169
STEPHENSON, T. E., B.A., 10, North Hill Court, Leeds, 6	121, 137 199
STEVENS, C. B., B.Sc., Ph.D., F.S.D.C., 11, Wynford Mount, Leeds, 16	126 175
STEVENS, Miss FRANCES M., B.A., 8, Moor Park Avenue, Leeds, 6	121, 141, 211, 213, 216 197
STEVENS, Miss J., 8, Butts Place, Leeds, 12	207
STEVENS, R., 58, Poole Crescent, Leeds, 15	168
STEVENS, R. T. H., M.A., M.Litt., Hollin House, Station Road, Upper Poppleton, York	121 151
STEVENSON, Alderman Mrs. GERTRUDE A., 2, Stainburn Terrace, Leeds, 17	63, 65
STEWART, J. A., 360, Whitehall Road, Leeds, 12	162
STEWART, T. MORTON, M.D., 25, Albion Street, Hull	92
STICKLAND, L. H., M.A., Ph.D., 8, Wedgwood Grove, Leeds, 8	128, 136 184
STILL, R. J., M.A., M.B., B.Chir., D.Obst.R.C.O.G., 27a, Cumberland Road, Leeds, 6	93, 102, 104, 105, 128, 136, 203 193
STIRLING, Mrs. A. C., Edinburgh School of Agriculture, West Main Road, Edinburgh, 9	220
STOCKDALE, E., 222, Moore Avenue, Bradford	138
STONER, Professor E. C., B.A., Sc.D., F.Inst.P., F.R.S., Penylan, 10, Winston Mount, Leeds, 6	69, 78, 99, 108, 124, 132, 136, 217 158
STRAIN, Mrs. J. M., 25, West End Lane, Horsforth, Leeds	182
STREET, G. B., B.Sc., Lyddon Hall, Virginia Road, Leeds, 2	172
STREETER, Mrs. D. J., B.Sc., School of Medicine, Leeds, 2	184
STROTHER, Miss MARJORIE, Beechcroft, Crabtree Hill, Collingham, Wetherby, Yorks.	197
STUART, W. S., M.Eng., A.M.I.E.E., Wordsley Manor Park, Burley-in-Wharfedale	118
SUMMERSCALES, Miss J. W., M.Sc., 3, Hill Rise Grove, Leeds, 13	182
SUTCLIFFE, F. K., M.Sc., Ph.D., Kilnhurst Cottage, Kilnhurst, Todmorden	126, 133 175
SUTCLIFFE, P., B.Sc. (Tech.), A.M.I.C.E., A.M.I.P.H.E., 46, Cardigan Road, Leeds, 6	126 167
SUTHERLAND, R., M.D., D.P.H., 49, Harlow Moor Drive, Harrogate	97, 128, 136 193
SUTHERLAND, T. W., M.D., Woodleigh, 70, Batley Road, Alverthorpe, Wakefield	128, 136 181

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SWALES, R., 9, Low Moor Side, Leeds, 11			173
SWALLOW, A. G., A.R.I.C., 9, Springfield Mount, Leeds, 2			160
SWANN, D. A., B.Sc., M.Sc., Tudor House, Oakwood Grove, Leeds, 8	126		177
SWINBURNE, K., M.A., M.B., B.Chir., Lower Willow Hall, Sowerby Bridge			185
SWINNERTON-DYER, H. P. F., University of Cambridge		218	
SYKES, J. G., B.Ch.D., F.D.S.R.C.S., St. Mary's House, Bootham, York		128	195
SYKES, Canon J. R., Cairduna, Halifax Road, Brighouse		87	
SYKES, Alderman Miss M. E., B.A., LL.B., J.P., 24, Britannia Buildings, St. Peter's Street, Huddersfield		92	
SYKES, Miss M. G., M.A., Leeds Girls' High School, Leeds, 6		62	
SYMONDS, H. E., M.A., B.D., Hostel of the Resurrection, Springfield Mount, Leeds, 2		118	
SYMOMS, ALAN V., Wings Cottage, Kemerton, nr. Tewkesbury, Glos.		58	
SYMOMS, Emeritus Professor H. W., M.B., Ch.B., F.R.C.S., 4, Headingley Terrace, Leeds, 6		110	
TALLANT, A., 173a, Beeston Road, Leeds, 11	80,	138	
TANCOCK, L. W., University College, London		218	
TANNER, L. H., B.A., 8, Otley Old Road, Leeds, 16		126	168
TATE, W. E., B.Litt., F.S.A., 23, Cliff Road Gardens, Leeds, 6		121	151
TATE, W. K., M.A., M.I.C.E., M.Inst.Gas E., 48, Grosvenor Gardens, London, S.W.1		75	
TATTERSALL, Mrs. JOAN M., M.B., Ch.B., Oakleigh, 6, Wood Lane, Leeds, 6		203	
TATTERSALL, R. N., O.B.E., M.D., F.R.C.P., Oakleigh, 6, Wood Lane, Leeds, 6		128, 136	185
TAVERNER, D., M.B.E., M.D., F.R.C.P., Springfield Cottage, Gomersal, Leeds		128, 136	185
TAYLOR, A. L., M.D., D.P.H., L.D.S., 8, Rayleigh Road, Harrogate			193
TAYLOR, A. R., M.A., 1, Birchwood Mount, Leeds, 17	121,	130	146
TAYLOR, County Alderman EZRA, M.B.E., J.P., Acacia, Lumby Street, Whitwood Mere, Castleford		59, 87	
TAYLOR, E., R.E., A.R.C.A., Leeds College of Art, Leeds, 2	70,	87, 141	
TAYLOR, E. W., C.B.E., D.Sc., F.R.S., 11, The Avenue, York		78	
TAYLOR, GEORGE, M.A., L.R.A.M., Education Department, Calverley Street, Leeds, 1		87, 141	
TAYLOR, G. R. T., Allerton Hill, Windlesham, Surrey		58	
TAYLOR, J., M.A., Storey Cottage, Kirkby Overblow, near Harrogate	121,	131	148
TAYLOR, L., 11, Virginia Road, Leeds, 2			208
TAYLOR, N., 45, Eastville Terrace, Harrogate			208
TAYLOR, Miss P. A., 38, Whiteley Street, Leeds, 12			194
TAYLOR, W., M.A., Education Department, Calverley Street, Leeds, 1		141	
TEASDALE, G. E., 3, Grosvenor Mount, Leeds, 6	77,	102	178
TEEMAN, R., LL.M., 954, Scott Hall Road, Leeds, 17			156
TELLING, O. M., M.A., D.M., F.R.C.P., 29, Park Square, Leeds, 1	128,	136	185
TEMPEST, R. K., M.Sc., Ph.D., 36, Fearnville View, Leeds, 8	124,	134	157
TENNENT, R. M., B.Sc., Ph.D., D.I.C., 89, Becketts Park Drive, Leeds, 6		124	159
TERRY, NOEL G., Goddards, York		57	
TETLEY, FRANCIS E., D.S.O., The Brewery, Leeds, 10		58	
TETLEY, Brigadier J. NOEL, D.S.O., T.D., LL.D., A.D.C., D.L., The Brewery, Leeds, 10	56, 57, 64, 65, 69-86, 88-105, 138, 140, 142		
THACKERAY, Miss S. A., El-Fasqiya, Wyncroft Grove, Bramhope, Leeds			194
THACKRAY, County Alderman C., B.A., 18, North Street, Heckmondwike		61	
THACKRAY, Mrs. E., 168, Tinsill Mount, Leeds, 16			163
THACKRAY, HAROLD E., M.A., J.P., Messrs. Herbert Denison & Thackray, Permanent House, The Headrow, Leeds, 1		59, 88	

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	Staff List
THEAKER, W. S., LL.B., J.P., Messrs. Craven, Clegg & Theaker, 6, East Parade, Leeds, 1	88
THEOBALD, G. W., M.A., B.Chir., M.D., M.R.C.P., F.R.C.S.E., F.R.C.O.G., 2, Walmer Villas, Bradford	191
THOMAS, A. F., B.Sc., M.A., D.Phil., 38, Moor Road, Leeds, 6	124, 134 162
THOMAS, Mrs. GRETTA M., M.D., 469, Street Lane, Leeds, 17	143 184
THOMAS, TERRY, M.A., Ph.D., LL.D., J.P., 25, Shire Oak Road, Leeds, 6	94
THOMAS, W. J., University of Manchester	220
THOMPSON, B. J., B.Sc.(Tech.), Ph.D., A.M.C.T., A.Inst.P., 603, Scott Hall Road, Leeds, 7	124 159
THOMPSON, E. P., B.A., Holly Bank, Whitegate, Siddal, Halifax	121, 137, 138 199
THOMPSON, Mrs. E. P., Holly Bank, Whitegate, Siddal, Halifax	213
THOMPSON, G. L., M.B., B.Chir., L.R.C.P., 16, Ramshill Road, Scarborough	213
THOMPSON, H., M.D., 6, Edgbaston Walk, Leeds, 17	128 181
THOMPSON, I. B., B.A., M.A., Devonshire Hall, Cumberland Road, Leeds, 6	121 149
THOMPSON, W. B., B.A., Woodlands, Otley, Yorks.	121, 210, 212, 216 151
THOMSON, R. L., M.A., B.Litt., 25, Castle View, Stonegate Road, Leeds, 17	121, 131 146
THORNBURN, P. C., B.Sc., 2, Carr Manor Avenue, Leeds, 7	209
THORNHAM, C. B., B.Ch.D., L.D.S., 5, Weetwood Avenue, Leeds, 16	128 194
THOMPSON, Mrs. A., 28, Woodland Drive, Pledwick, Wakefield	138
THORPE, J. R., 113, Barkley Road, Leeds, 11	159
THYNNE, J., B.Sc., Ph.D., 14, Blandford Gardens, Leeds, 2	161
THYSS, Mlle. M-L., L. ès L., Dip.E.H.E.C., Agrégée de l'Université, Department of French, The University, Leeds, 2	121 146
TODD, Mrs. E. M., The Terrace, Pateley Bridge, Harrogate	212
TOLSON, Alderman J. E., J.P., 52, Bywell Road, Dewsbury	87, 140
TONER, W. H., 52, Springfield Place, Leeds, 2	202
TOOTHILL, C., B.Sc., 18, Springfield Mount, Leeds, 2	128 182
TOPHAM, K., 35, Carrholm Road, Leeds, 7	165
TOPPING, J. F., M.A., M.Com., Huddersfield Training College, Huddersfield	141
TOWERS, J. R. H., M.A., M.D., F.R.C.P., 42, Park Square, Leeds, 1	94, 128, 136 185
TOWERS, K. G., B.V.Sc., M.R.C.V.S., Britannia House, Albion Street, Clifford, Boston Spa	126, 133 178
TOWN, A. W., M.A., 42, Westminster Crescent, Burn Bridge, Harrogate	203
TOWNEND, P. P., B.Sc., Ph.D., F.T.I., Milford, Tredgold Avenue, Bramhope, Leeds	126, 132, 143 173
TOWNSEND, W. N., B.Sc., Court Ash, Woodacres Crescent, Bardsey, Leeds	126, 133 177
TOWNSHEND, Mrs. M., B.Sc., Windsor House, Main Street, Thorner, Leeds	172
TRENAMAN, J., B.Litt., 181, Wetherby Road, Leeds, 17	155
TREWICK, Miss M., M.A., Flat B, 3, Grosvenor Road, Leeds, 6	152
TRICKETT, W. H., M.Sc., 9, Woodbine Terrace, Leeds, 6	124, 133, 143, 212 157
TRIM, J. L. M., 4, Lansdowne Road, Cambridge	218
TRIPPETT, S., B.A., Ph.D., The Bungalow, The Drive, Bardsey, Leeds	124, 133 162
TRUTER, E. V., B.Sc., Ph.D., A.R.C.S., D.I.C., A.R.I.C., Flat 3, 9, Cavendish Road, Leeds, 2	126, 133 174
TRUTER, Mrs. M. R., B.Sc., Ph.D., A.R.C.S., Flat 3, 9, Cavendish Road, Leeds, 2	77, 102, 124, 132 160
TSEUNG, C. C. A., Dip. Ing., 2, Blenheim Square, Leeds, 2	171
TUCKER, P. E., B.Litt., M.A., A.L.A., 9, St. Michael's Villas, Cardigan Road, Leeds, 6	201
TUDBALL, F. C., The Turner Tanning Machinery Co., Ltd., Bramley, Leeds, 13	89
TUFT, Mrs. B. S., 3, King's Road, Bramhope, Leeds	192
TUNBRIDGE, Professor R. E., O.B.E., M.Sc., M.D., F.R.C.P., J.P., The Gables, 5, Grove Lane, Leeds, 6	73, 85, 90, 92, 94, 97, 108, 128, 136, 215, 216 184

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		<i>Staff List</i>
TUNBRIDGE, Mrs. R. E., M.Sc., The Gables, 5, Grove Lane, Leeds, 6	61, 142	211
TUPPER, H. G., B.A., 33, Lyddon Terrace, Leeds, 2		201
TURNBULL, DONALD, LL.M., Messrs. Scott, Turnbull & Kendall, Bar Chambers, 105, Albion Street, Leeds, 1		88
TURNBULL, Colonel L., M.C., T.D., J.P., 3, Scarcroft Grange, Scarcroft, Leeds	90	
TURNBULL, Miss M. M., B.Sc., 5, Spring Road, Leeds, 6		181
TURNER, Miss DOROTHY M., M.Sc., Dip.Hort., Kirkby Overblow, Harrogate		
	126, 132, 213	177
TURNER, G. C., M.D., 29, King's Mount, Leeds, 17		183
TURNER, JOSEPH, Messrs. Sir Joseph Turner & Sons, Viaduct Street, Huddersfield	58	
TURNER, J. SELWYN, M.Sc., M.R.I.A., F.G.S., Faversham Hotel, Springfield Mount, Leeds, 2	124	164
TURNER, Miss M. D. B., 11, Grange Court, Leeds, 6		207
TURNER, Mrs. M. M., 20, Hollin Lane, Leeds, 16		158
TURNER, W. P., 21, St. John's Terrace, Leeds, 3	121	145
TWEDDLE, W., O.B.E., T.D., LL.M., 41, Park Square, Leeds, 1	214	
ULLMANN, Professor S., Dr.Phil., D.Litt., Rydal House, Grosvenor Road, Leeds, 6	108, 121, 130, 139, 212	146
UNDERWOOD, Councillor J. H., 44, Iveson Rise, Leeds, 16	61, 87	
URSELL, H. D., M.A., 3, Edgerton Road, Leeds, 16	121, 130, 132	157
USHER, F. L., D.Sc., The Tollgate Cottage, Hurstbourne, Tarrant Andover, Hants.		118
VALENTINE, J., M.B., Ch.B., D.P.M., Scalebor Park Hospital, Burley-in-Wharfedale	128	188
VARIN, R. L., C.B.E., 25, bis rue Alexis Fourcault, Versailles-et-O, France		197
VAUGHAN, E. A., B.Com., 6, St. Michael's Terrace, Leeds, 6	122, 215	155
VEALE, DEREK T., M.A., F.C.A., Messrs. Peate, Marwick, Mitchell and Co., 2, Park Place, Leeds, 1	72	
VEALE, GEOFFREY, Q.C., West House, Wetherby, Yorkshire	57	
VERITY, Miss S., 1, Cliff Side Gardens, Leeds, 6		207
VERSEY, Emeritus Professor H. C., D.Sc., F.G.S., 1, Stainburn Terrace, Leeds, 17		157
	80, 91, 110, 124, 132, 138, 139, 211, 212, 215	167
VICKERS, E., M.A., A.L.A., 28, Clarendon Place, Leeds, 2		201
VICKERY, Mrs. K. M., 77, St. Mark's Road, Leeds, 2		178
VINING, Emeritus Professor C. W., M.D., F.R.C.P., D.P.H., 31, Park Square, Leeds, 1	92, 110	
VIRGO, S. R., M.B.E., 4, Queen's Road, Harrogate	121, 137	200
WADDINGTON, G., B.Sc., Ph.D., F.R.I.C., Hartshead Moor, Cleckheaton, Yorks.		143
WADDINGTON-FEATHER, Mrs. S. M., B.Sc., East View, Warren Lane, Eldwick, Bingley		162
WADE, DONALD W., M.A., LL.B., M.P., Messrs. Booth, Wade, Lomas-Walker and Colbeck, 1, Central Bank Chambers, Leeds, 1	88	
WADE, J. LEONARD, B.A., LL.B., Messrs. Wade and Co., Lloyds Bank Chambers, Hustlergate, Bradford	88	
WADE, N., A.T.I., 75, Sowerby New Road, Sowerby Bridge		174
WADSWORTH, Miss S., 20, Silk Mill Drive, Leeds, 16		178
WAGSTAFF, D. St. J. R., M.A., LL.B., 37, Park Square, Leeds, 1		156
WAINWRIGHT, H. S., O.B.E., The Heath, Adel, Leeds, 16	57	

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WAKEFIELD, Miss A. B., 8, Kirkwood Avenue, Leeds, 16	178
WALKER, Rev. G. S. M., M.A., B.D., Ph.D., 83, Otley Old Road, Leeds, 16	150
	121 183
WALKER, P. D., B.Sc., Ph.D., 29, Birstwith Road, Harrogate	
WALKER, P. H., B.Sc.(Eng), Ph.D., A.M.I.E.E., 18, Cecil Avenue, Horton Park, Bradford, 7	126, 134 168
WALKER, R. CLIVE, Messrs. William Walker and Sons, Ltd., Rose Hill Tannery, Bolton, Lancs.	89
WALKER, S., 20, William Street, Staincliffe, Dewsbury	163
WALKER, Miss V., 17, Rothbury Gardens, Leeds, 16	207
WALKER, Miss V. R. M., B.A., Thoresby High School, Great George Street, Leeds, 1	141
WALL, A. E., M.Sc., M.B., Ch.B., F.R.C.S., Manby House, East Chevin, Otley	128 189
WALLACE, E. W., B.Sc., Ph.D., 24, Hyde Terrace, Leeds, 2	124 157
WALLBANK, Miss S. ANNIE, B.Sc., New Grange, Selby Road, Leeds, 15	
	121, 211, 214 151
WALLS, W. K. J., M.B., Ch.B., L.R.C.P., M.R.C.S., 2, Greenhead Road, Leeds, 16	74, 128, 136 179
WALSH, Miss A. M., 19, Sandringham Drive, Moortown, Leeds, 17	144
WALSH, Alderman J. S., LL.B., Vince's Chambers, Victoria Square, Leeds, 1	
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WALSH, Professor W., M.A., 27, Moor Drive, Headingley, Leeds, 6	144
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WALTON, A. W., B.Sc., 39, The Drive, Leeds, 8	124, 133, 195 162
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WELCH, G. E., M.B., B.S., D.P.H., 36, Ayresome Terrace, Leeds, 8	128 193
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WHITAKER, W., B.Sc., M.D., M.R.C.P., 20, Clarendon Road, Leeds, 2	128, 136 185
WHITE, Mrs. A. E., B.Sc., 52, Cardigan Road, Leeds, 6	180
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WILSON, L., 56, Strathmore Terrace, Leeds, 9			169
WILSON, Miss M. H., Flat 2, 7, Clarendon Place, Leeds, 2			155
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