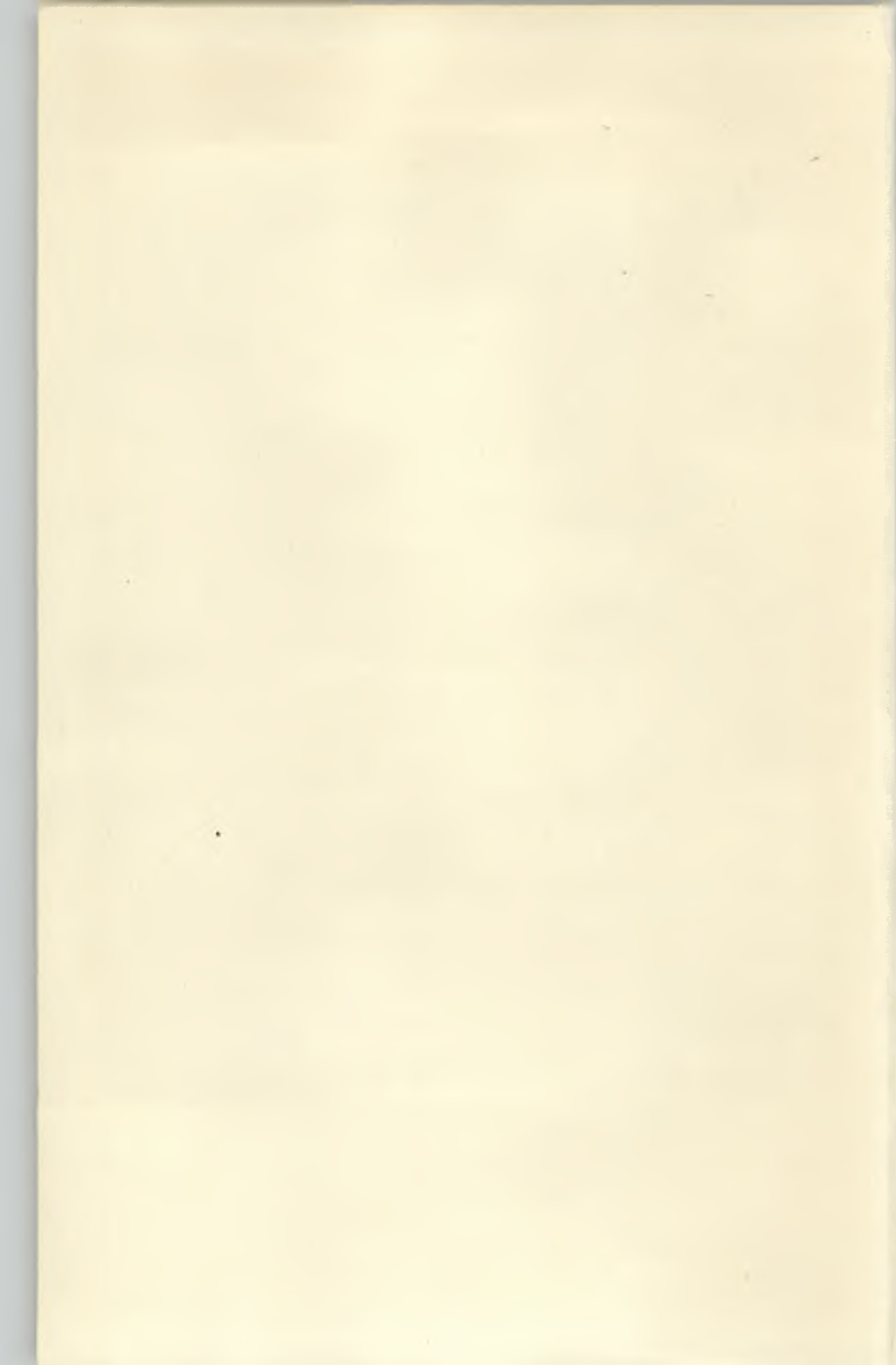


Mr. F. J. Manning.
Registrar's Office.

LEEDS
UNIVERSITY
ARCHIVES





CALENDAR, 1961-62

CALIFORNIA, 1901-02

UNIVERSITY OF LEEDS
CALENDAR

1961-62

2nd set

CALENDAR, 1961-62

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ALMANAC

SESSION 1961-2

1ST TERM Tuesday, 3 October
 Friday, 15 December

2ND TERM Tuesday, 16 January
 Friday, 23 March

3RD TERM Wednesday, 25 April
 Friday, 6 July

SESSION 1962-3

1ST TERM Tuesday, 2 October
 Friday 14 December

OCTOBER 1961

- 1 S.
- 2 M. Registration of students
- 3 Tu. FIRST TERM BEGINS
Registration 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. *Public Lecture*
- 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. *Inaugural Lecture*
- 17 Tu. Brotherton Collection Committee, 2.15 p.m.
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. *Medical Inaugural Lecture*
- 21 S.
- 22 S.
- 23 M.
- 24 Tu. *Institute of Education Annual Service*
- 25 W. Senate Business Committee, 2 p.m.
- 26 Th.
- 27 F.
- 28 S.
- 29 S. *University Sermon*
- 30 M. *Midday Recital*
Public Lecture
- 31 Tu. Institute of Education Executive Committee, 2.30 p.m.
University Lecture

ALMANAC

NOVEMBER 1961

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

ALMANAC

DECEMBER 1961

1	F.		<i>University Lecture</i>
2	S.		
3	S.		
4	M.		<i>Inaugural Lecture</i>
5	Tu.		
6	W.	Senate, 2 p.m.	<i>Music Society Concert</i>
7	Th.	Masterships Committee, 4.5 p.m. M.Sc. Committee, 4 p.m.	
8	F.		
9	S.		
10	S.		
11	M.	Ph.D. Committee, 4.15 p.m.	<i>Carol Singing</i>
12	Tu.	Union Building Advisory Committee, 2.30 p.m. Board of the Institute of Education, 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.		
10			

ALMANAC

JANUARY 1962

1	M.	
2	Tu.	
3	W.	
4	Th.	
5	F.	
6	S.	
7	S.	
8	M.	
9	Tu.	
10	W.	
11	Th.	
12	F.	
13	S.	
14	S.	
15	M.	
16	Tu.	SECOND TERM BEGINS Board of the Faculty of Medicine, 5 p.m.
17	W.	
18	Th.	
19	F.	
20	S.	
21	S.	
22	M.	Public Lecture
23	Tu.	
24	W.	
25	Th.	Public Lecture
26	F.	
27	S.	
28	S.	
29	M.	Art Lecture
30	Tu.	Midday Recital
31	W.	Senate Business Committee, 2 p.m. Chamber Music Concert

ALMANAC

FEBRUARY 1962

- | | | | |
|----|-----|---|--|
| 1 | Th. | | <i>Public Lecture</i> |
| 2 | F. | Last day for entry for examinations to be held in March and June other than medical and dental examinations held in June. | |
| 3 | S. | | |
| 4 | S. | | |
| 5 | M. | | <i>University Lecture</i> |
| 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. | <i>Public Lecture</i> |
| 9 | F. | Library Committee, 4 p.m. | <i>Midday Recital</i> |
| 10 | S. | | |
| 11 | S. | | |
| 12 | M. | Ph.D. Committee, 4.15 p.m. | <i>Inaugural Lecture</i> |
| 13 | Tu. | 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. | <i>Midday Recital</i>
<i>Public Lecture</i> |
| 16 | F. | | |
| 17 | S. | | |
| 18 | S. | | |
| 19 | M. | | <i>Public Lecture</i> |
| 20 | Tu. | Board of the Faculty of Medicine, 5 p.m. | |
| 21 | W. | Council, 2.15 p.m. | <i>Chamber Music Concert</i> |
| 22 | Th. | | |
| 23 | F. | | <i>Midday Recital</i> |
| 24 | S. | | |
| 25 | S. | | |
| 26 | M. | | <i>Midday Recital</i>
<i>Art Lecture</i> |
| 27 | Tu. | Institute of Education Executive Committee, 2.30 p.m. | |
| 28 | W. | Senate Business Committee, 2 p.m. | |

ALMANAC

MARCH 1962

1	Th.		<i>Midday Recital</i>
2	F.		
3	S.		
4	S.		<i>University Sermon</i>
5	M.		<i>Inaugural Lecture</i>
6	Tu.		<i>University Lecture</i>
7	W.	Senate, 2 p.m.	<i>Chamber Music Concert</i>
8	Th.	M.Sc. Committee, 4 p.m. Masterships Committee, 4.5 p.m.	
9	F.		<i>Midday Recital</i>
10	S.		
11	S.		
12	M.	Ph.D. Committee, 4.15 p.m.	<i>Public Lecture</i>
13	Tu.	Board of the Institute of Education, 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.	<i>Music Society Concert</i>
15	Th.	Board of the Faculties of Science and Technology, 5 p.m.	
16	F.		
17	S.		
18	S.		
19	M.		<i>Inaugural Lecture</i>
20	Tu.	Union Building Advisory Committee, 2.30 p.m. Board of the Faculty of Medicine, 5 p.m.	
21	W.	Council, 2.15 p.m.	
22	Th.		
23	F.	SECOND TERM ENDS	
24	S.		
25	S.		
26	M.		
27	Tu.		
28	W.		
29	Th.		
30	F.		
31	S.		

ALMANAC

APRIL 1962

- 1 S.
- 2 M.
- 3 Tu.
- 4 W.
- 5 Th.
- 6 F.
- 7 S.
- 8 S.
- 9 M.
- 10 Tu.
- 11 W.
- 12 Th.
- 13 F.
- 14 S.
- 15 S.
- 16 M.
- 17 Tu.
- 18 W.
- 19 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)
- 20 F. Good Friday. University buildings closed
- 21 S. University buildings closed
- 22 S. Easter Day
- 23 M. University buildings closed
- 24 Tu. University buildings closed
- 25 W. THIRD TERM BEGINS
Senate Business Committee, 2 p.m.
- 26 Th.
- 27 F.
- 28 S.
- 29 S.
- 30 M. *University Lecture*

ALMANAC

MAY 1962

- 1 Tu.
- 2 W. Senate, 2 p.m.
- 3 Th. Masterships Committee, 4.5 p.m.
- 4 F. Library Committee, 4 p.m.
- 5 S.
- 6 S.
- 7 M. *Selig Brodetsky Memorial Lecture*
- 8 Tu. Board of the Faculty 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.
- 12 S.
- 13 S. *University Sermon*
- 14 M. Ph.D. Committee, 4.15 p.m.
- 15 Tu. Board of the Faculty of Medicine, 5 p.m.
- 16 W. Council, 2.15 p.m.
Court, 3.30 p.m.
- 17 Th. Board of the Faculties of Science and Technology, 5 p.m.
- 18 F.
- 19 S.
- 20 S.
- 21 M.
- 22 Tu.
- 23 W. Honorary Degrees Ceremony, 3 p.m.
- 24 Th.
- 25 F.
- 26 S.
- 27 S.
- 28 M.
- 29 Tu. Institute of Education Executive Committee, 2.30 p.m.
- 30 W. Senate Business Committee, 2 p.m.
- 31 Th.

ALMANAC

JUNE 1962

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

ALMANAC

JULY 1962

1	S.	
2	M.	
3	Tu.	Union Building Advisory Committee, 2.30 p.m.
4	W.	Senate, 2 p.m.
5	Th.	
6	F.	THIRD TERM ENDS
7	S.	
8	S.	
9	M.	
10	Tu.	
11	W.	Finance Committee, 2.15 p.m.
12	Th.	
13	F.	
14	S.	
15	S.	
16	M.	
17	Tu.	
18	W.	Council, 2.15 p.m.
19	Th.	
20	F.	
21	S.	
22	S.	
23	M.	
24	Tu.	
25	W.	
26	Th.	
27	F.	
28	S.	
29	S.	
30	M.	
31	Tu.	

ALMANAC

AUGUST 1962

1	W.	
2	Th.	
3	F.	
4	S.	University buildings closed (except the Brotherton Library)
5	S.	
6	M.	University buildings closed
7	Tu.	University buildings closed
8	W.	
9	Th.	
10	F.	
11	S.	
12	S.	
13	M.	
14	Tu.	
15	W.	
16	Th.	
17	F.	
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.	
31	F.	
18		

ALMANAC

SEPTEMBER 1962

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

OCTOBER 1962

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

NOVEMBER 1962

- 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.
- 10 S.
- 11 S.
- 12 M. Ph.D. Committee, 4.15 p.m.
- 13 Tu. 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. Library Committee, 4 p.m.
- 17 S.
- 18 S.
- 19 M.
- 20 Tu. Board of the Faculty of Medicine, 5 p.m.
- 21 W. Council, 2.15 p.m.
Court, 3.30 p.m.
- 22 Th.
- 23 F.
- 24 S.
- 25 S.
- 26 M.
- 27 Tu.
- 28 W. Senate Business Committee, 2 p.m.
- 29 Th.
- 30 F.

DECEMBER 1962

- 1 S.
 2 S.
 3 M.
 4 Tu.
 5 W. Senate, 2 p.m.
 6 Th. Masterships Committee, 4.5 p.m.
 7 F.
 8 S.
 9 S.
 10 M. Ph.D. Committee, 4.15 p.m.
 11 Tu. Board of the Faculties of Arts, Economic and Social Studies
 and Law, 5 p.m.
 12 W. Finance Committee, 2.15 p.m.
 13 Th.
 14 F. FIRST TERM ENDS
 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. University buildings closed
 25 Tu. Christmas Day
 26 W. University buildings closed
 27 Th. University buildings closed
 28 F.
 29 S.
 30 S.
 31 M.
 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 examina-

CHARTER

tions, 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.

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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.

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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

CHARTER

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.

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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.

CHARTER

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.

CHARTER

'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

1. 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.

STATUTES

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.

STATUTES

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.

STATUTES

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.

STATUTES

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.

STATUTES

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 degree 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 in this college is recognised as exempting from intermediate (or introductory) courses in the University in the first of the years of study for the degrees of Bachelor of Arts and Bachelor of Science.

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

I. 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.

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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 examinations for such degree.

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

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

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

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

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

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.

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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

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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 CONVOCAION

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 Articles 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 of the Board who shall be the Bursar of the University.

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

7. The Board of the Institute:

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

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

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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.

ORDINANCES

- (v) To recommend persons for appointment as external examiners.
- (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 action as may from time to time be required by the Board.

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

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

10. Dissolution: The University, after giving not less than two years' notice of its intention, may dissolve the Institute of Education and in that event the premises, equipment and all assets of the 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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PROFESSOR A. G. WARD, O.B.E., M.A., F.Inst.P., <i>Leather Industries, 1959-61, Food and Leather Science, 1961</i>	1959
PROFESSOR J. H. WESTERN, B.Sc., Ph.D., <i>Agricultural Botany</i>	1959
PROFESSOR C. S. WHEWELL, B.Sc., Ph.D., F.R.I.C., F.T.I., <i>Textile Technology</i>	1954
PROFESSOR J. G. WILSON, M.A., Ph.D., F.Inst.P., <i>Physics</i>	1952
PROFESSOR D. R. WOOD, B.Sc., B.M., B.Ch., M.A., <i>Pharma- cology</i>	1960
PROFESSOR E. J. WOOD, M.A., <i>Latin Language and Literature</i>	1938

THE SENATE

F. W. CHATTAWAY, M.Sc., Ph.D., <i>Biochemistry</i> [Annual appointment]	1961
F. J. FOWLER, B.A., Ph.D., <i>Geography</i> [Annual appointment]	1961
F. E. HOARE, M.Sc., Ph.D., A.R.C.S., F.Inst.P., <i>Physics</i> [Annual appointment]	1961
E. W. KELLERMANN, Dr.Phil., Ph.D., F.Inst.P., <i>Physics</i> [Annual appointment]	1961
A. LAING, M.A., Ed.B., <i>Education</i> [Annual appointment]	1961
R. H. MARTIN, B.A., M.A., <i>Latin</i> [Annual appointment]	1961
A. B. PAIN, T.D., Ch.M., F.R.C.S., <i>Surgery</i> [Annual appointment]	1961
R. J. STILL, M.A., M.B., B.Chir., D.Obst.R.C.O.G., <i>Student Health Service</i> [Annual appointment]	1961

EMERITUS PROFESSORS

- ALDRED FARRER BARKER, M.Sc.
THE REV. LAURENCE EDWARD BROWNE, M.A., D.D.
DONALD BURTON, *M.B.E.*, D.Sc., F.R.I.C.
FREDERICK CHALLENGER, B.Sc., Ph.D., D.Sc., F.R.I.C.
BONAMY DOBRÉE, *O.B.E.*, M.A., Docteur de Dijon
WALTER MANOEL EDWARDS, M.C., M.A.
FRANK SCOTT FOWWEATHER, M.Sc., M.D., F.R.C.P., D.P.H.,
F.R.I.C.
JOHN WILFRED HARVEY, M.A.
JOHN DAVID IVOR HUGHES, B.C.L., M.A.
JOHN JOHNSTONE JERVIS, M.D., D.P.H.
JOHN HARRY JONES, M.A., LL.D.
WILLIAM MACADAM, M.A., B.Sc., M.D., F.R.C.P., D.P.H.
JAMES WALTER McLEOD, *O.B.E.*, M.B., Ch.B., Sc.D., F.R.S.
WILLIAM PROCTER MILNE, M.A., LL.D., D.Sc.
PERCIVAL JOHN MOIR, M.C., M.B., Ch.B., F.R.C.S.
RICHARD DOUGLAS PASSEY, M.C., M.D., D.P.H., L.R.C.P., M.R.C.S.
THOMAS TALMAGE READ, M.Ch.D., F.R.F.P.S.(G.), F.D.F.R.C.S.,
H.H.D.(G), L.R.C.P.E.
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ERIC ARTHUR SPAUL, Ph.D., D.Sc.
HUBERT WALLACE SYMONS, M.B., Ch.B., F.R.C.S.
HENRY CHERRY VERSEY, D.Sc., F.G.S.
CHARLES WILFRED VINING, M.D., F.R.C.P., D.P.H.
JOHN THOMAS WHETTON, D.S.O., *O.B.E.*, M.C., T.D., M.Sc.
RICHARD WHIDDINGTON, *C.B.E.*, M.A., D.Sc., F.R.S.
ALBERT VICTOR WILLIAMSON, M.A.
RUPERT ALLAN WILLIS, D.Sc., M.D., F.R.C.P.

EMERITUS LIBRARIAN

- RICHARD OFFOR, B.A., Ph.D., F.L.A.

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

ANDRIANO UNGARO	
[non-professorial appointment]	1933-40
MATTHEW FONTAINE MAURY MEIKLEJOHN	
[non-professorial appointment]	1946-49

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
ASA BRIGGS (Modern History)	1955-61

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
JOHN KELMAN SUNDERLAND REID	1952-61

Education

JAMES WELTON	1904-16
JOHN STRONG	1919-33
FRANK SMITH	1933-47
ROGER NOEL ARMFELT	1949-55
WILLIAM ROY NIBLETT	1948-59

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

FORMER PROFESSORS

Zoology

WALTER GARSTANG	1907-33
ERIC ARTHUR SPAUL	1933-60

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

Biomolecular Structure

WILLIAM THOMAS ASTBURY	1945-61
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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
WILLIAM BRADLEY	1948-61

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

FORMER PROFESSORS

Metallurgy

NORMAN JAMES PETCH 1956-59

Mining

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

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
 JOHN MCGREGOR 1934-61

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

Experimental Pathology and Cancer Research

RICHARD DOUGLAS PASSEY 1926-53

FORMER PROFESSORS

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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Surgery

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

Clinical Surgery

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

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
ANDREW MOYNIHAN CLAYE	1936-61

Pharmacology

WILLIAM ALEXANDER BAIN	1946-59
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FORMER PROFESSORS

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

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

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
WINIFRED MARY BURBURY	1960
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
JEAN PHILIPPE 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>
HAMPSON BAINES	1960
EDWARD ERNEST BIBBY	1951
ELIZABETH MARIA BLACKBURN	1946
SYDNEY BURR	1950

RETIREED MEMBERS

MARY CONSTANCE CALDWELL	1956
ERNEST EDWARD CATON	1953
AGUSTIN DE IRIZAR	1958
JOHN CRUICKSHANKS GILLIES	1960
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

THE FACULTIES

THE FACULTY OF ARTS

Dean - PROFESSOR G. T. CLAPTON

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PROFESSOR J. M. CAMERON
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DR. P. P. DAWS
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PROFESSOR R. E. DICKINSON
MR. W. A. G. DOYLE-DAVIDSON
MR. A. DRESSLER
MR. J. DRYHURST
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DR. D. C. EARL
MR. S. ELLIS
DR. S. R. EYRE
PROFESSOR B. A. FLETCHER
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DR. F. J. FOWLER
DR. K. GARRAD
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DR. H. B. GOTTSCHALK
PROFESSOR W. D. B. GRANT
DR. G. HAINSWORTH
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MR. B. R. HARTLEY
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MR. G. W. HILL
MISS BEATRICE HONIKMAN
THE REV. W. E. HOUGH
MISS ELISABETH HUNKIN
MR. G. B. B. HUNTER
MR. G. W. IRELAND
MR. J. C. IRESON
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PROFESSOR A. N. JEFFARES
MR. D. W. JEFFERSON
MR. B. JENNINGS

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 Mr. R. S. JOHNSON
 MR. C. M. JONES
 MR. G. R. J. JONES
 DR. P. J. JONES
 PROFESSOR R. FURNEAUX
 JORDAN
 MR. A. M. KEAN
 MR. L. W. KEATES
 MR. A. KELLY
 DR. A. C. KETTLE
 DR. D. KIRBY
 PROFESSOR G. WILSON
 KNIGHT
 MR. A. LAING
 MR. D. LAYTON
 MR. F. A. LEEMING
 PROFESSOR J. LE PATOUREL
 MR. P. LONG
 DR. K. LOVELL
 MR. A. D. LOWE
 MR. S. LOWY
 MR. P. A. D. MacCARTHY
 MISS VERENA N. R.
 McCRIRICK
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 DR. R. MAUDE
 MR. F. MAY
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 MR. R. T. H. STEVENS
 PROFESSOR P. D. STREVENSON
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 PROFESSOR A. J. TAYLOR
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 MR. J. TAYLOR
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 MR. W. B. THOMPSON
 MR. R. L. THOMSON
 MLE. MARIE-LOUISE THYSS
 MR. W. PRICE TURNER
 PROFESSOR S. ULLMANN
 MR. H. D. URSELL
 MR. S. R. VIRGO
 THE REV. G. S. M. WALKER
 MISS S. ANNIE WALLBANK

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MR. J. T. WRIGHT

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DR. A. E. C. HARE
MR. W. G. HEAD
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MR. H. C. HILLMANN
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MR. M. KIRK

MR. E. A. LOWE
MR. H. G. MARTINS
MR. W. T. NEWLYN
MR. W. J. PRICHARD
MR. G. F. RAINNIE
DR. J. A. REX
MR. J. D. SARGAN
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MR. C. SLAUGHTER
MR. H. SPEIGHT
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DR. B. R. WILSON
DR. H. V. WISEMAN
MR. A. G. WITTS

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Dean - Professor P. S. JAMES

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DR. M. R. R. DAVIES
PROFESSOR P. J. FITZ-
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<i>Reader in Mathematical Chemistry</i>	D. W. J. CRUICKSHANK, M.A., Cambridge, B.Sc.(Eng.), London, Ph.D., Leeds, sometime Fellow of St. John's College, Cambridge
<i>Reader in Structural Crystallography</i>	Mrs. MARY R. TRUTER, B.Sc., Ph.D., London, A.R.C.S.
<i>Senior Lecturer</i>	F. J. GARRICK, M.A., Oxford
<i>Lecturers</i>	G. E. PRINGLE, B.A., Ph.D., Cambridge, A.Inst.P. J. A. S. SMITH, M.A., D.Phil., Oxford J. H. ROBERTSON, B.Sc., Ph.D., Edinburgh, A.R.I.C. D. C. MUNRO, M.A., D.Phil., Oxford B. L. SHAW, B.Sc., Manchester, D.Phil., Oxford
<i>Brotherton Research Fellow</i>	S. S. SAHOTA, M.Sc., Punjab, Ph.D.
<i>Assistant Lecturer</i>	L. D. PETTIT, B.A., D.Phil., Oxford
<i>Temporary Assistant Lecturer</i>	A. G. SYKES, B.Sc., Ph.D., Manchester
<i>Research Fellows</i>	Miss MARYON W. DOUGILL, B.Sc., London, Ph.D., Leeds D. ALT, A.B., St. Louis, M.S., Minnesota, Ph.D., Texas

SCIENCE

Fulbright Foundation Fellow Demonstrators

W. E. CLIFFORD, B.S., M.S., *California*
A. G. SWALLOW, A.R.I.C.
B. SHELDRICK, B.Sc., *London*
S. D. ROBINSON, B.Sc., *London*
A. O. S. MACZEK, B.A., *Oxford*

Research Assistants

J. D. GRACE, B.A., *Denison, Ohio*,
M.S., *Pennsylvania State*
J. G. F. SMITH, B.Sc., *Leeds*
P. HUDSON, B.Sc., *Leeds*

One vacancy

Secretary

Mrs. MAUREEN J. KIBBLE

PHYSICAL CHEMISTRY

Professor

F. S. DAINTON, M.A., *Oxford*, Sc.D.,
Cambridge, F.R.I.C., F.R.S., Honorary
Fellow of St. Catharine's College,
Cambridge

Reader

P. GRAY, M.A., Ph.D., *Cambridge*,
sometime Fellow of Gonville and Caius
College, *Cambridge*

Senior Lecturers

G. F. SMITH, Ph.D., *Wales and Cambridge*
J. W. BELTON, Ph.D., D.Sc., *Liverpool*
E. F. CALDIN, M.A., D.Phil., *Oxford*
K. J. IVIN, B.Sc., *London*, M.A., Ph.D.,
Cambridge

Senior Lecturer and Radiation Protection Officer Lecturers

E. COLLINSON, M.A., Ph.D., *Cambridge*
D. BUNN, B.Sc., Ph.D., *Leeds*
A. S. CARSON, M.Sc., *Belfast*, Ph.D.,
Manchester
P. B. AYSCOUGH, M.A., Ph.D.,
Cambridge

Assistant Director of Graduate Studies

D. SMITHIES, B.Sc., Ph.D., *Manchester*

Assistant Lecturer in Radiochemistry

P. GLENTWORTH, B.Sc., Ph.D.,
Liverpool

Assistant Lecturer

M. J. HENCHMAN, M.A., *Cambridge*,
Ph.D., *Yale*

Visiting Lecturers

G. A. ELLIOTT, M.Sc., Ph.D., *London*
A. H. SPONG, M.Sc., *London*, Ph.D.,
Cambridge
J. R. URWIN, Ph.D., *Adelaide*
L. R. CSANYI, Dr.Phil.Nat., *Szeged*

THE STAFF

Brotherton Research Lecturer

D. C. WALKER, B.Sc., *St. Andrews*,
Ph.D., *Leeds*

Demonstrators

J. H. O'DONNELL, B.Sc., *Western*
Australia

J. W. ARMITAGE, B.A., *Cambridge*

B. E. FLEISCHFRESSER, M.Sc.,
Queensland

I.C.I. Research Fellows

D. L. BAULCH, M.Sc., Ph.D.,
Melbourne

J. B. PEDLEY, M.Sc., Ph.D., *Manchester*

S. R. LOGAN, B.Sc., Ph.D., *Queen's*
University, Belfast

J. W. Wootton Research Fellow

G. A. SALMON, B.Sc., Ph.D., *Leeds*

Grace Research Fellow

Vacant

G.E.C. Fellow

F. T. JONES, B.S., *Pennsylvania State*,
Ph.D., *Brooklyn Polytechnic*

Research Fellows

B. MILE, B.Sc., Ph.D., *Birmingham*

J. THYNNE, B.Sc., Ph.D., *Nottingham*

F. WILKINSON, B.Sc., Ph.D., *Leeds*

R. WILLIX, B.Sc., Ph.D., *Western*
Australia

U.S. Public Health Service
Research Fellow

M. E. JAYKO, Ph.D., *Washington*

International Atomic Energy
Agency Fellow

E. WEZRANOWSKI, M.Sc., *Cracow*,
Ph.D., *Warsaw*

Secretary

Miss ELAINE C. HARE

ORGANIC CHEMISTRY

Professor and Chairman of the
School of Chemistry, 1959-62

B. LYTHGOE, M.A., *Cambridge*, Ph.D.,
Manchester, F.R.I.C., F.R.S., some-
time Fellow of King's College, *Cam-*
bridge

Senior Lecturers

W. A. WIGHTMAN, M.A., *Oxford*,
F.R.I.C.

E. ROTHSTEIN, Ph.D., D.Sc., *London*,
A.R.C.S.

P. A. BRISCOE, B.Sc., *Bristol*, Ph.D.,
Leeds, F.R.I.C.

Lecturers

A. T. AUSTIN, M.Sc., *Melbourne*, Ph.D.,
London, A.R.I.C.

S. TRIPPETT, B.A., Ph.D., *Cambridge*

J. E. SAXTON, M.A., B.Sc., D.Phil.,
Oxford

SCIENCE

	W. RIGBY, B.Sc., Ph.D., <i>London</i> , Ph.C.
	D. I. DAVIES, B.Sc., Ph.D., <i>London</i>
	P. R. BROOK, B.Sc., Ph.D., <i>London</i>
	G. A. MORRISON, B.Sc., Ph.D., <i>Glasgow</i>
<i>Demonstrators</i>	Mrs. SHEILA M. WADDINGTON- FEATHER, B.Sc., <i>London</i>
	R. C. WHITFIELD, B.Sc., <i>Leeds</i>
	R. M. SCROWSTON, B.Sc., <i>Leeds</i>
<i>Brotherton Research Fellow</i>	R. S. DAVIDSON, A.R.I.C.
<i>Secretary</i>	Miss MARGARET A. COWLING

TECHNICAL AND CLERICAL STAFF, SCHOOL OF CHEMISTRY

<i>Lecture Demonstrator</i>	D. WHITELEY
<i>Microanalyst</i>	J. A. STEWART
<i>Assistant Analyst</i>	F. R. DAUBNEY
<i>Clerks</i>	Miss DOROTHY L. CASPERSON
	Miss MAVIS LEE
	Miss M. ELIZABETH JOLLEY
	Miss L. PATRICIA BEDFORD
	Miss KATHLEEN BLACKBURN
<i>Library Assistant</i>	Mrs. EVELYN THACKRAY
<i>Chief Technicians</i>	S. WALKER
	H. WOMACK, A.I.S.T.
	J. T. C. JOHNS, A.I.S.T.
	F. LEE
<i>Glassblower</i>	H. S. BUTLER

ZOOLOGY

<i>Professor</i>	J. M. DODD, B.Sc., <i>Liverpool</i> , Ph.D., <i>St. Andrews</i> , F.R.S.E.
<i>Reader</i>	T. KERR, M.A., D.Sc., <i>Glasgow</i>
<i>Senior Lecturers</i>	H. HENSON, Ph.D., D.Sc., <i>Birmingham</i>
	E. BROADHEAD, M.A., B.Sc., D.Phil., <i>Oxford</i> , F.R.E.S.
<i>Lecturers</i>	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. CHADWICK, B.Sc., Ph.D., <i>Bristol</i>

THE STAFF

Research Assistant in Insect Ecology

Demonstrator (part-time)

Research Assistant

Secretary

Senior Technician

A. J. WAPSHERE, B.Sc., *Exeter*, Ph.D., *Leeds*

Mrs. ELCY C. BROADHEAD, B.Sc., *Aberdeen*

P. J. EVENNETT, B.Sc., *Liverpool*

Miss D. NORA MASON

H. NEWBY, A.I.S.T.

BOTANY

Professor

Professor of Plant Biophysics

Senior Lecturer

Lecturers

Miss IRENE MANTON, B.A., Ph.D., Sc.D., *Cambridge*, Hon. D.Sc., *McGill*, F.R.S.

R. D. PRESTON, Ph.D., D.Sc., *Leeds*, F.Inst.P., F.L.S., F.R.S.

W. A. SLEDGE, B.Sc., Ph.D., *Leeds*

Mrs. EDITH ROBINSON, B.Sc., *Durham*, Ph.D., *Leeds*

A. WESLEY, B.Sc., *London*, A.R.C.S., F.G.S., F.L.S.

Miss EVA FREI, Dr. Sc. Nat., *Zürich*

J. D. LOVIS, B.Sc., *London*, Ph.D., *Leeds*

D. D. BARTLEY, B.Sc., Ph.D., *Wales*

D. H. JENNINGS, B.A., *Cambridge*, M.A., D.Phil., *Oxford*

G. F. LEEDALE, B.Sc., Ph.D., *London*

Mrs. BRENDA J. NELMES, B.Sc., *London*

One vacancy

T. S. CROSBY, B.Sc.(Hort.), *London*

Miss J. M. DENISON

Miss E. D. LISTER, B.Sc., *Leeds*

J. R. SCOTT

G. A. SHAW

K. OATES

Demonstrators

Garden Curator

Secretary

Secretary (Plant Biophysics)

Senior Technicians

GEOLOGY

5 *Hillary Place, Leeds 2*

Professor and Head of the Department

Senior Lecturer

Lecturers

W. Q. KENNEDY, D.Sc., *Glasgow*, F.R.S. F.G.S.

J. HARTLEY, B.Sc., *Leeds*, F.G.S.

Miss DOROTHY H. RAYNER, M.A., Ph.D., *Cambridge*

SCIENCE

	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.
	I. G. GASS, M.Sc., Ph.D., <i>Leeds</i> , F.G.S.
	One vacancy
<i>Lecturer in Palæontology</i>	J. SELWYN TURNER, M.Sc., <i>London</i> , M.R.I.A., F.G.S.
<i>Lecturer in Geology and Geochemistry</i>	P. G. HARRIS, M.Sc., <i>New Zealand</i> , Ph.D., <i>Leeds</i>
<i>Oppenheimer Geological Fellows</i>	O. VON KNORRING, M.Sc., <i>Helsinki</i> , Ph.D., <i>Leeds</i>
	T. N. CLIFFORD, B.Sc., Ph.D., <i>Leeds</i> , F.G.S.
	R. L. JOHNSON, B.Sc., Ph.D., <i>Leeds</i> ,
	K. G. COX, M.A., <i>Oxford</i> , Ph.D., <i>Leeds</i> F.G.S.
	J. R. VAIL, M.Sc., <i>British Columbia</i> , Ph.D., <i>Leeds</i>
<i>Spectrographer</i>	Miss JOAN M. ROOKE, B.Sc., <i>Leeds</i> , A.Inst.P.
<i>Analyst (part-time)</i>	Mrs. MARGARET H. KERR, B.Sc., <i>Glasgow</i>
<i>Secretary</i>	Mrs. MARY MARSHALL
<i>Clerk</i>	Miss BERYL C. SPILLINGS
<i>Chief Technician</i>	W. L. WILSON

BIOMOLECULAR STRUCTURE

<i>Readers</i>	K. M. RUDALL, M.Sc., <i>New Zealand</i> , Ph.D., D.Sc., <i>Leeds</i> , F.Inst.P.
	J. MacARTHUR, M.A., B.Sc., Ph.D., <i>Glasgow</i>
<i>Lecturer</i>	F. G. E. PAUTARD, M.Sc., <i>Birmingham</i> , Ph.D., <i>Leeds</i> , A.R.I.C.
<i>Research Fellows</i>	W. E. SEEDS, B.A., M.Sc., <i>Trinity College, Dublin</i> , Ph.D., <i>London</i>
	E. A. C. FOLLETT, B.Sc., Ph.D., <i>Glasgow</i>
<i>Research Assistants</i>	E. BEIGHTON, B.Sc., Ph.D., <i>Leeds</i>
	K. D. PARKER, B.A., <i>Cambridge</i> , Ph.D., <i>Leeds</i>
	G. N. GRAHAM, B.Sc., Ph.D., <i>Leeds</i>
	P. G. KELLY, B.Sc., <i>Leeds</i>

THE STAFF

*Research Assistant for
Electron Microscope
Clerk
Technician*

A. MILLARD

Mrs. DORIS E. BEIGHTON
K. TOPHAM

PSYCHOLOGY

4, 15-17 Lifton Place, Leeds 2
Professor

Lecturers

G. P. MEREDITH, M.Sc., M.Ed., *Leeds*,
Ph.D., *London*, F.B.Ps.S.

J. R. MORRISBY, B.A., *Western
Australia*

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*,
Ph.D., *Durham*

*Temporary Lecturer
Senior Technician*

J. W. T. RICHARDS, B.A., *Bristol*
E. SOLLITT

PHILOSOPHY

See page 150. Faculty of Arts

GEOGRAPHY

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PHYSIOLOGY

See page 181. Faculty of Medicine

ANATOMY

See page 181. Faculty of Medicine

BACTERIOLOGY

See page 185. Faculty of Medicine

BIOCHEMISTRY

See page 182. Faculty of Medicine

PHARMACOLOGY

See page 183. Faculty of Medicine

TECHNOLOGY

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

Dr. GARSIDE
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.

Senior Lecturer

E. W. BENNETT, M.Sc., *Bristol*,
Ph.D., *Leeds*, A.M.I.C.E.

Honorary Lecturer

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

Lecturers

R. D. MACKEY, B.Sc., *Durham*,
A.M.I.C.E.

P. SUTCLIFFE, B.Sc.(Tech.), *Manchester*,
A.M.I.C.E., A.M.I.P.H.E.

A. W. CHRONOWICZ, Dipl.-Ing.,
Lvov and Polish Technical University, London

A. L. YETTRAM, B.A., B.A.I., *Dublin*

W. G. COLLINS, B.Sc., *London*,
F.R.C.S.

J. A. FOX, B.Sc., *Bristol*, A.M.I.C.E.

W. HOUGHTON-EVANS, A.R.I.B.A.,
A.M.P.T.I.

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

D. MICHAEL, B.Sc., *Edinburgh*

J. S. HIGGINS, H.N.D.

Assistant Lecturer

Temporary Assistant Lecturer

*Laboratory Instructor
and Draughtsman*

Clerks

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

Miss VALERIE K. BURDIN

Miss SUSAN M. DOBSON

S. RIDER

H. ROBINSON

Chief Technician

Senior Technician

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*

*Reader in Applied Thermo-
dynamics*

Senior Lecturer

Lecturers

*Superintendent of Mechanical
Engineering Laboratories*

Computational Assistant

Draughtsmen Demonstrators

Laboratory Instructor

Clerical Staff

Senior Technicians

Vacant

A. S. LEAH, B.Sc., Ph.D., *Leeds*,
A.M.I.C.E., M.I.Mech.E.

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

D. APPLEYARD, M.Sc., *Leeds*

H. STANSFIELD, M.Sc., *Manchester*,
A.M.I.Mech.E.

F. R. MOBBS, M.Sc., *Leeds*, D.I.C.

W. B. PALMER, M.A., *Cambridge*,
Ph.D., *Leeds*, A.M.I.Mech.E.

D. DOWSON, B.Sc., Ph.D., *Leeds*,
A.M.I.Mech.E., A.S.M.E.

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

G. R. HIGGINSON, B.Sc., Ph.D.,
Leeds, A.M.I.Mech.E.

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

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

B. B. MIATT, M.Sc., *Manchester*,
G.I.Mech.E.

B. PARSONS, B.Sc., Ph.D., *Leeds*,
G.I.Mech.E.

C. I. E. RABAGLIATI, B.Sc., *Leeds*,
M.I.Mech.E.

A. V. WHITAKER, B.A., *Cambridge*

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

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

D. ASTY, G.I.Mech.E.

Mrs. JOSEPHINE E. WHITAKER

Mrs. PATRICIA MANNING

W. DAVIS

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

R. STEVENS

W. G. RADFORD, A.I.S.T.

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

A. T. LAWSON, A.I.S.T.

ELECTRICAL ENGINEERING

Professor

G. W. CARTER, M.A., *Cambridge*,
M.I.E.E., Mem.A.I.E.E.

TECHNOLOGY

Senior Lecturers

A. RICHARDSON, B.Sc., *Durham*,
A.M.I.E.E., A.M.Brit.I.R.E.
P. H. WALKER, B.Sc.(Eng.), *London*,
Ph.D., *Manchester*, A.M.I.E.E.
A. E. GUILF, B.Sc.(Eng.), Ph.D.,
London, A.M.I.E.E.

Lecturers

G. S. BRAYSHAW, B.Sc.(Eng.), Ph.D.,
London, A.M.I.E.E., Sen.M.I.R.E.
B. F. SALVAGE, B.Sc.(Eng.), Ph.D.,
London, M.I.E.E.
J. R. RICHARDSON, B.Sc., Ph.D.,
M.I.R.E., *Leeds*
P. J. LAWRENSON, M.Sc., *Manchester*,
A.M.I.E.E.
J. M. STEPHENSON, B.Sc., G.I.E.E.,
Leeds

Laboratory Instructor

Two vacancies

Clerical Staff

L. WILLIAMS

Chief Technician

Miss JANET L. HOW

W. E. EARNSHAW

C. S. PETCH

Senior Technicians

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

H. J. KING, B.Sc.(Eng.), Ph.D., *London*,
A.M.I.Min.E.

Lecturer in Mining

W. L. J. POTTS, B.Sc., *Durham*,
A.R.I.C.S., A.M.I.Min.E.

Lecturer in Mining and Mine Surveying

J. McFARLANE, B.Sc., *Manchester*,
B.Eng., *Sheffield*, F.G.S.

Lecturer in Metal Mining and Mine Surveying

A. PECK, B.Sc., *Leeds*, A.M.I.M.M.

Lecturer in Mine Surveying and Applied Geophysics

J. O. MYERS, B.Sc., Ph.D., *Leeds*,
A.M.I.Min.E.

Lecturer in Colliery Engineering

N. BROOK, B.Sc.(Eng.), *London*,
Ph.D., *Leeds*, G.I.Mech.E.,
A.M.I.Min.E.

Lecturers in Dressing of Minerals and Coal Preparation

A. JOWETT, B.Sc., Ph.D., *Leeds*
C. C. DELL, B.Sc.(Eng.), *London*,
A.R.S.M., A.M.I.M.M.
C. C. HARRIS, B.Sc., *London*, Ph.D.,
Leeds

THE STAFF

Honorary Lecturers in Mineral Dressing and Coal Preparation

Hugh Wood Memorial Research Fellow in Mining
Research Assistants

Demonstrator/Draughtsman Clerk
Chief Technician
Senior Technicians

A. GROUNDS, B.Sc.(Tech.), Manchester, A.M.C.T., M.I.Min.E., F.Inst.F.
L. W. NEEDHAM, M.Sc., Birmingham, A.R.I.C., F.Inst.F.

Vacant

K. G. STAGG, B.Sc., Leeds
Five vacancies

P. M. DAVEY
Miss CYNTHIA NORTH
G. R. BARROWS
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.]

Livesey Professor of Coal Gas and Fuel Industries and Chairman of the School

A. L. ROBERTS, B.Sc., Ph.D., Leeds, F.Inst.F., F.R.I.C., F.I.Ceram., Hon.M.Inst.Gas.E.

GAS ENGINEERING AND GENERAL FUEL SCIENCE WITH CERAMICS

Senior Lecturer in Fuel Technology

J. E. GARSIDE, B.Sc., Ph.D., Leeds, M.Inst.F.

TECHNOLOGY

*Senior Lecturer in Gas
Chemistry*

Lecturer in Fuel Technology

Honorary Lecturers

Lecturer in Gas Engineering

CERAMICS

*Lecturers in Ceramics and
Refractory Materials*

Lecturer in Ceramics

Honorary Lecturer

Arthur Duckham Research Fellow,

Institution of Gas Engineers

Research Fellow

Research Assistants

Analyst

CHEMICAL ENGINEERING

*Brotherton Professor and Head
of the Department*

Brotherton Senior Lecturer

Lecturers

J. C. MACRAE, B.Sc., *Glasgow*,
F.R.I.C., M.Inst.F.

S. C. MITCHELL, B.Sc., *London*,
A.R.I.C., A.M.Inst.F.

F. J. DENT, O.B.E., Ph.D., D.Sc., *Leeds*,
M.Inst.Gas.E.

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

B. A. LILLEY, B.Sc., Ph.D., *Leeds*

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.

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

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

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

W. D. SCOTT B.S., *Illinois*, M.S.,
Ph.D., *California*

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

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

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

E. W. ROBERTS, B.Sc., *Bristol*

G. J. ROBERTS, B.Sc., *Birmingham*,
A.R.I.C., A.I.Ceram.

J. C. V. RUMSEY, B.Sc., *Wales*
A. HEUER, B.S., *City College of New York*

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

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

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

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, M.A., D.Phil., *Oxford*

THE STAFF

Assistant Lecturers

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

One vacancy

Demonstrator

Vacant

METALLURGY

*Professor and Head of the
Department*

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

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*,
A.I.M.

P. M. KELLY, M.A., Ph.D., *Cambridge*

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

Honorary Lecturer

R. B. McLELLAN, B.Met., *Sheffield*

I.C.I. Fellow

JOINT RESEARCH COMMITTEE OF THE GAS COUNCIL AND THE UNIVERSITY

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

Senior Research Chemists

G. DIXON-LEWIS, M.A., D.Phil.,
Oxford

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

Research Chemists

L. BARKER, B.Sc., Ph.D., *Leeds*,
A.R.I.C.

J. R. CATCHPOLE, B.Sc., *Leeds*

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

E. G. JACKSON, B.Sc., Ph.D., *Leeds*

D. WHITE, B.Sc., *London*, Ph.D., *Leeds*

A. WILLIAMS, B.Sc., Ph.D., *Leeds*

Research Assistants

P. G. DUNHAM, B.Sc., *Leeds*

N. W. HOLLINGWORTH, B.Sc.,
Leeds

M. HUTCHINSON, B.Sc., *Leeds*

D. JONES, D.L.C.

M. KERSHAW, B.Sc., *Leeds*, A.M.Inst.F.

G. B. STREET, B.Sc., *Leeds*

C. P. WARD, B.Sc., *Leeds*

A. VARTY, B.Sc., *Leeds*

TECHNOLOGY

<i>Clerical Staff</i>	Miss C. JOAN HOCKIN Miss MAUREEN FARRAR Miss FRANCES HILL Miss ALISON J. MOODY Miss PATRICIA A. HILL
<i>Chief Technicians</i>	R. METCALF B. CARTER
<i>Senior Technicians</i>	R. SWALES W. BELL G. FLETCHER E. H. CAMM J. M. GALLIVAN

TEXTILE INDUSTRIES

[Endowed by the Clothworkers' Company of the City of London]	
<i>Professor and Head of the Department</i>	J. B. SPEAKMAN, D.Sc., <i>Manchester</i> , F.R.I.C., F.T.I. (Hon.)
<i>Research Professor of Textile Engineering</i>	P. GROSBERG, M.Sc. (Eng.), Ph.D., <i>Witwatersrand</i>
<i>Professor of Textile Technology</i>	C. S. WHEWELL, B.Sc., Ph.D., <i>Leeds</i> , F.R.I.C., F.T.I.
<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>Senior Lecturer in Textile Testing</i>	W. J. ONIONS, B.Sc., <i>Wales</i> , F.T.I.
<i>Lecturers in Textile Engineering</i>	D. L. MUNDEN, B.Sc., <i>Leeds</i> , F.T.I. Two vacancies
<i>Honorary Lecturer in Textile Engineering</i>	G. F. RAPER, M.A., <i>Cambridge</i>
<i>Lecturers in Textile Industries</i>	L. PETERS, B.Sc., <i>London</i> , M.Sc., Ph.D., <i>Leeds</i> G. BROOK, B.Sc., Ph.D., <i>Leeds</i> P. A. SMITH, B.Sc., Ph.D., <i>Leeds</i> , A.T.I.
<i>Lecturer in the Chemistry of High Polymers</i>	A. R. MATHIESON, M.Sc., <i>Durham</i> , Ph.D., <i>Nottingham</i> , F.R.I.C.

THE STAFF

<i>Lecturers in Textile Chemistry</i>	J. W. BELL, B.Sc., Ph.D., <i>Leeds</i> E. V. TRUTER, B.Sc., Ph.D., <i>London</i> , A.R.C.S., D.I.C., A.R.I.C.
	P. T. SPEAKMAN, M.A., D.Phil., <i>Oxford</i>
<i>Lecturer in Textile Physics</i>	J. SIKORSKI, Dipl. Ing., <i>Warsaw</i> , M.Sc., Ph.D., <i>Leeds</i> , A.Inst.P.
<i>Assistant Lecturers in Textile Physics</i>	Two vacancies
<i>Lecturer in Cloth Analysis and Cloth Structure</i>	D. YOUNG, A.T.I.
<i>Textile Technologists</i>	D. I. POOLE, A.T.I. N. WADE, A.T.I. D. S. WARDEN, H.N.C.
<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> B. D. STONE, B.Sc., <i>London</i> , M.Sc., <i>Leicester</i> , A.R.I.C.
<i>Wool Textile Research Council Fellows</i>	K. HEPWORTH, B.Sc., <i>London</i> A. B. McNAMARA, B.Sc.(Eng.), <i>Dublin</i>
<i>I.C.I. Fellow</i>	J. M. WOODHOUSE, M.A., D.Phil., <i>Oxford</i>
<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> G. C. PRIESTLEY, B.Sc., <i>Durham</i>
<i>Museum Curator and Librarian</i>	Miss VERA SHACKLETON
<i>Departmental Secretary</i>	Miss KATHLEEN M. EULER
<i>Clerks</i>	Miss JOYCE DICKINSON Miss MARIE E. PHILPOTT Mrs. BRENDA McCLELLAND
<i>Chief Technicians</i>	T. F. GRIFFIN H. WOOD L. BRAYSHAW E. A. MATHER
<i>Senior Technicians</i>	F. H. DUGGAN P. M. HARRISON R. HAYNES A. E. TURLEY R. K. WATSON

TECHNOLOGY

<i>Technician</i>	W. BUTTERWICK
<i>Director of Research Students at Torridon</i>	A. B. D. CASSIE, C.B.E., M.A., Ph.D., D.Sc., <i>Edinburgh</i> , F.Inst.P.

COLOUR CHEMISTRY AND DYEING

[Endowed by the Clothworkers' Company of the City of London]

<i>Professor</i>	Vacant
<i>Senior Lecturer in Dyeing</i>	C. L. BIRD, M.Sc., <i>Leeds</i> , F.R.I.C., F.S.D.C.
<i>Senior Lecturer in Colour Chemistry</i>	A. T. PETERS, Ph.D., D.Sc., <i>Manchester</i> , A.Mus.T.C.L.
<i>Research Lecturer</i>	F. K. SUTCLIFFE, M.Sc., <i>Manchester</i> , Ph.D., <i>Leeds</i>
<i>Lecturer in Dyeing</i>	C. B. STEVENS, B.Sc., Ph.D., <i>Leeds</i> , F.S.D.C.
<i>Lecturer in Lakes and Pigments</i>	D. PATTERSON, M.Sc., Ph.D., <i>Bristol</i>
<i>Lecturer in Colour Chemistry</i>	F. JONES, B.Sc.(Tech.), <i>Manchester</i> , Ph.D., <i>Leeds</i>
<i>Honorary Fellow</i>	W. S. DENHAM, B.Sc., <i>London</i> , D.Sc., <i>St. Andrews</i> , F.R.I.C.
<i>Assistant in Dyeing</i>	Vacant
<i>Research Assistant</i>	V. S. SHEVADE, B.Sc., <i>Banaras</i> , B.Sc. (Tech.), <i>Bombay</i>
<i>Brotherton Research Fellow in Physical Chemistry</i>	Vacant
<i>Assistant Dyer</i>	F. D. DICKINSON
<i>Secretary</i>	Miss ALISON E. COBB, B.A., <i>Oxford</i>

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<i>Procter Professor of Food and Leather Science</i>	A. G. WARD, O.B.E., M.A., <i>Cambridge</i> , F.Inst.P.
<i>Lecturers</i>	R. REED, M.Sc., <i>Manchester</i> , Ph.D., <i>Leeds</i>
	Miss F. OLGA FLINT, B.Sc., Ph.D., <i>Leeds</i>
	H. E. NURSTEN, B.Sc., Ph.D., <i>Leeds</i> , F.R.I.C.
	C. H. PEARSON, B.Sc., <i>Leeds</i>
	G. STAINSBY, M.A., Ph.D., <i>Cambridge</i> , F.R.I.C.

THE STAFF

<i>Lecturer and Supervisor of the Experimental Tannery</i>	J. SCHOLTZ
<i>Research Assistants</i>	Two vacancies
<i>Research Fellow</i>	D. F. HORLER, B.Sc., London, Ph.D., Leeds
<i>Procter Memorial Fellow</i>	Vacant
<i>British Boot, Shoe and Allied Trades Association Fellow</i>	D. POPPLEWELL, B.Sc., Leeds
<i>Clerk</i>	Miss GILLIAN A. JAMES
<i>Senior Technician</i>	E. BELL
<i>Technician</i>	A. W. GRIFFITHS

PROCTER INTERNATIONAL RESEARCH LABORATORY

[Endowed in 1914 by public subscription to commemorate the services rendered by the late Emeritus Professor H. R. Procter to science and the leather industry]

<i>Honorary Director</i>	Professor A. G. WARD, O.B.E., M.A., Cambridge, F.Inst.P.
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AGRICULTURE

<i>Professor of Agriculture and Head of the Department</i>	T. L. BYWATER, B.Sc., Wales, M.S., Wisconsin
<i>Clive Behrens Lecturer</i>	Vacant

AGRICULTURE

<i>Senior Lecturers</i>	T. G. BOAZ, M.B.E., M.A., Dip.Agric., Cambridge
	R. HOLLIDAY, B.Sc., Leeds
<i>Lecturer and Farm Director</i>	J. DALLEY, B.Sc., Leeds
<i>Lecturer and Deputy Farm Director</i>	J. R. PROUD, B.Sc., Leeds, N.D.A.
<i>Lecturers</i>	D. R. HODGSON, B.Sc., Ph.D., Leeds, Dip. Agric., Cambridge
	One vacancy
<i>Assistant Lecturer</i>	D. C. DALTON, B.Sc.(Agric.), Durham, Ph.D., Wales
<i>Demonstrators</i>	W. WHITTINGHAM, B.Sc.(Agric.), Leeds
	R. W. WILLEY, B.Sc.(Agric.), Nottingham

TECHNOLOGY

* <i>Research Assistant in Pig Husbandry</i>	Vacant
‡ <i>B.O.C.M. Research Fellow</i>	Miss LUCIA S. PEARSON, B.A., Dip.Agric., <i>Cambridge</i>
† <i>Regional Trials Officer</i>	M. J. FURBER, B.Sc. (Agric.), <i>Reading</i> , Dip.Agric., <i>Cambridge</i>
† <i>Assistant Regional Trials Officer</i>	R. O. SMITH, B.Sc., <i>Leeds</i>

AGRICULTURAL BACTERIOLOGY

<i>Senior Lecturer</i>	J. WOLF, M.Sc., <i>Reading</i>
<i>Lecturer</i>	A. N. BARKER, M.Sc., Ph.D., <i>Leeds</i>

AGRICULTURAL BOTANY

<i>Professor</i>	J. H. WESTERN, B.Sc., Ph.D., <i>Wales</i>
<i>Lecturers</i>	A. POWELL JONES, M.Sc., <i>Wales</i> D. J. HARBERD, M.Sc., <i>Wales</i>
<i>Assistant Lecturer</i>	Miss MARGERY J. WREN, B.Sc., Ph.D., <i>Manchester</i>
* <i>Research Assistant</i>	G. H. WILLIAMS, B.Sc., <i>Wales</i>

AGRICULTURAL CHEMISTRY

<i>Senior Lecturer</i>	J. S. WILLCOX, B.Sc., <i>London</i> , F.R.I.C.
<i>Lecturer</i>	W. N. TOWNSEND, B.Sc., <i>Leeds</i>
<i>Assistant Lecturer</i>	D. A. SWANN, B.Sc., M.S., <i>Reading</i>
<i>Analyst</i>	G. R. LAX, A.R.I.C.

AGRICULTURAL ECONOMICS

<i>Senior Lecturer and Principal Agricultural Economist</i>	W. H. LONG, M.A., <i>Oxford</i>
<i>Senior Lecturer</i>	A. G. JEFFREY, B.Com., <i>Leeds</i>
<i>Lecturers</i>	J. B. BUTLER, M.Sc., <i>London</i> , M.Com., <i>Birmingham</i> G. B. CLARKE, B.Sc.(Econ.), <i>London</i> , Dip.Agric.Sc., <i>Cambridge</i> C. J. BLACK, B.Sc., <i>London</i> , B.Litt., Dip.Agric.Econ., <i>Oxford</i> , N.D.A.

*Appointed under a grant from the Agricultural Research Council.

†By arrangement with the National Institute of Agricultural Botany.

‡Appointed under a grant from the British Oil and Cake Mills Ltd.

THE STAFF

I. G. SIMPSON, M.Sc., *Reading*
 A. J. WYNNE, B.Sc., *London*, N.D.A.
 Mrs. MORAG C. SIMPSON,
 B.Sc.(Econ.), M.Sc.(Agric.), *London*
 A. A. MARSH, B.Sc.(Agric.), *Reading*,
 Dip.Agric.Econ., *Oxford*

Investigational Assistants

A. OLDFIELD
 Miss JEAN B. D. RADFORD
 E. DAWSON, B.Sc., *Leeds*, N.D.A.,
 N.D.D.
 Miss EDITH M. WRIGHT, B.Sc.,
Nottingham
 L. W. BOLTON, A.C.W.A., A.C.I.S.
 E. G. HUNT
 A. W. HALES, B.Sc.(Hort.), *Reading*

AGRICULTURAL ZOOLOGY

Lecturers

N. H. E. GIBSON, B.Sc., *London*, Ph.D.,
Leeds
 B. WHITTINGTON, B.Sc., Ph.D.,
Sheffield

VETERINARY SCIENCE

Veterinary Officer and Lecturer

K. G. TOWERS, B.V.Sc., *Liverpool*,
 M.R.C.V.S.

Administrative Assistant Senior Clerks

Miss L. HELEN SHARPER
 Mrs. AUDREY WILSON
 Miss ALICE L. NEWSTEAD

Clerical Staff

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 MARY C. BENSKIN, Miss
 DOREEN E. BIELBY, Miss AVRIL
 Y. BLOOMFIELD, Miss GWEN-
 DOLINE BURTONSHAW, Miss
 JUDITH A. DEREWONKO, Miss
 HILARY FLINT, Miss MARIAN
 HAZELWOOD, Miss A. BLANCHE
 WAKEFIELD, Miss KATHLEEN
 WOOD, R. WOOD

Chief Technician Senior Technicians

G. E. TEASDALE
 W. P. DAVIES
 Mrs. B. T. MATTHEWS

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Dean	Mr. PAIN
Sub-Dean	Dr. DIVINE
Honorary Adviser for the Medical Library	Professor DURWARD

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Professor	A. DURWARD, M.D., <i>New Zealand</i> , F.R.S.E.
Senior Lecturers	G. I. BOYD, M.D., <i>Edinburgh</i> , F.R.C.S.E. W. K. J. WALLS, M.B., Ch.B., <i>Leeds</i> , L.R.C.P., M.R.C.S.
Lecturers	J. A. SHARP, M.B., Ch.B., Ph.D., <i>Leeds</i> R. G. BURWELL, B.Sc., M.D., <i>Leeds</i> , F.R.C.S.
Honorary Lecturer	K. M. RUDALL, M.Sc., <i>New Zealand</i> , Ph.D., D.Sc., <i>Leeds</i>
Demonstrators	G. H. FARRINGTON, M.B., Ch.B., <i>Leeds</i> P. FOGGITT, M.B., Ch.B., <i>Leeds</i> G. G. BIRD, M.B., Ch.B., <i>Leeds</i> K. R. PEEL, M.B., Ch.B., <i>Leeds</i>
Honorary Demonstrator	H. AGAR, B.Sc., M.B., Ch.B., <i>Leeds</i> , M.B., B.S., <i>London</i> , F.R.C.S., F.R.C.O.G.
Research Assistant	G. A. WICKHAM, M.Agric.Sc., <i>New Zealand</i>
Clerk	Miss ANN M. CAMERON
Chief Technician	W. HUTCHINSON, A.I.S.T.

PHYSIOLOGY

Professor	A. HEMINGWAY, M.B., Ch.B., M.Sc., <i>Leeds</i>
Senior Lecturers	H. R. NOLTIE, M.A., B.Sc., <i>Aberdeen</i> W. J. O'CONNOR, M.A., <i>Cambridge</i> , M.D., <i>Adelaide</i>
Lecturers	W. J. ALLEN, M.D., <i>Belfast</i> J. C. G. COLERIDGE, B.Sc., M.B., Ch.B., <i>Leeds</i> C. KIDD, B.Sc., Ph.D., <i>Durham</i>

THE STAFF

	R. J. LINDEN, M.B., Ch.B., Ph.D., <i>Leeds</i>
	P. P. NEWMAN, M.D., <i>Liverpool</i>
	J. H. WOLSTENCROFT, M.A., Ph.D., <i>Cambridge</i>
<i>Demonstrators</i>	J. R. LEDSOME, M.B., Ch.B., <i>Edinburgh</i>
	D. L. MATTHEWS, B.Sc., M.B., Ch.B., <i>Leeds</i>
<i>Clerk</i>	Miss JANE E. NELSON
<i>Chief Technician</i>	H. SALTER, F.I.S.T.
<i>Senior Technicians</i>	E. S. STAINTHORPE
	P. W. HARGREAVES

BIOCHEMISTRY

9 Hyde Terrace, Leeds 2

Professor

*Reader in Physico-chemical
Aspects of Biochemistry*

Senior Lecturers

Lecturers

Lecturer (part-time)

Honorary Lecturer

Demonstrator

Research Assistants

Clerk

Chief Technician

F. C. HAPPOLD, Ph.D., D.Sc., *Manchester*

S. DAGLEY, M.A., B.Sc., *Oxford*, D.Sc.,
London, F.R.I.C.

B. A. KILBY, M.A., Ph.D., *Cambridge*

F. W. CHATTAWAY, M.Sc., Ph.D.,
London

R. P. HULLIN, M.Sc., Ph.D., *Wales*,
F.R.I.C., J.P.

T. J. BOWEN, M.A., B.Sc., *Oxford*

D. G. WILD, M.A., D.Phil., *Oxford*

A. J. KENNY, M.B., B.S., *London*,
Ph.D., *Cambridge*

T. A. SCOTT, B.Sc., Ph.D., *Leeds*

Mrs. JANE E. BURCH, B.A., Ph.D.,
Cambridge

S. M. WEIDMANN, Dr.Ing., *Darmstadt*, Ph.D., *Leeds*

D. WOOLLEY, B.Sc., *Leeds*

Miss MARGARET PRINCE, B.Sc.,
Sheffield

Mrs. AUDREY E. WHITE, B.Sc.,
London and Sheffield, Ph.D., *Sheffield*

J. S. BEST, B.Sc., *Leeds*

Mrs. ELIZABETH KEMP

L. H. DAVIS

PHARMACOLOGY

*Professor of Pharmacology and
Head of the Department*

Senior Lecturer in Pharmacology

Lecturers in Pharmacology

*Lecturer in Pharmacological
Chemistry*

Lecturer in Pharmaceutics

Lecturer in Pharmacognosy

*Assistant Lecturer in Pharmaceutics
Clerk*

D. R. WOOD, B.M., B.Ch., B.Sc.,
M.A., Oxford

G. A. MOGEY, M.D., Belfast

K. A. EXLEY, M.D., Leeds,
D.Obst.R.C.O.G.

D. MACKAY, B.Sc., Ph.D., Aberdeen

E. R. CLARK, B.Pharm., Wales, Ph.D.,
London, F.R.I.C.

R. C. KAYE, B.Pharm., Ph.D., London,
F.P.S.

G. A. NELSON, M.Sc., Ph.D., Leeds,
F.P.S., F.L.S.

E. T. ABBS, B.Sc., Leeds, M.P.S.

Miss MARY M. TURNBULL, B.Sc.,
London

PATHOLOGY

Professor

Senior Lecturers

Lecturers

Lecturer (part-time)

Senior Lecturer in Hæmatology

Senior Lecturer in Neuropathology

Lecturer in Urological Pathology

*Lecturer (part-time) in
Gynæcological Pathology*

*Lecturer (part-time) in Blood
Transfusion*

Assistant Lecturer

Honorary Research Fellow

C. E. LUMSDEN, M.D., Aberdeen

T. W. SUTHERLAND, M.D., Leeds

C. J. E. WRIGHT, M.Sc., M.D., Leeds

H. THOMPSON, M.D., Glasgow

F. A. O'M. SHIEL, M.B., B.Ch., B.A.O.,
B.Sc., National University of Ireland

C. G. WOODS, M.B., Ch.B., B.Sc.,
Leeds

W. GOLDIE, M.A., M.B., Ch.B., Aber-
deen, F.R.C.P., London and Edinburgh

J. E. MacIVER, B.A., M.D., F.R.S.M.,
Cambridge

D. G. F. HARRIMAN, M.D., Belfast,
M.R.C.P.

C. K. ANDERSON, M.B., Ch.B.,
St. Andrews

N. LISSIMORE, M.D., Leeds

J. A. V. SHONE, L.M.S.S.A., L.R.C.P.,
M.R.C.S.

Vacant

Emeritus Professor R. A. WILLIS, D.Sc.,
M.D., Melbourne, F.R.C.P.

THE STAFF

<i>Lyons Research Fellow</i>	R. BLIGHT, M.B., B.S., <i>London</i> , D.Obst.R.C.O.G.
<i>Portsmouth Research Fellow</i>	D. M. ROBERTSON, B.Sc., Ph.D., <i>St. Andrews</i> , A.R.I.C.
<i>Research Assistants in Experimental Cytology</i>	Miss MARGARET SATTER- THWAITE, M.Sc., <i>Leeds</i> D. HUGHES, B.Sc., <i>Reading</i>
<i>Clerical Staff</i>	The Hon. ZAIDÉE MILNER Miss CLAIRE EDWARDS Mrs. MARGARET J. GREAVES Mrs. BETTY HAINSWORTH Miss ANNE LADLEY
<i>Chief Supervisor in Hæmatological Technique</i>	C. W. BUCHAN, F.I.M.L.T.
<i>Senior Research Technician</i>	Miss ROSEMARY J. T. PIPER, A.I.M.L.T.

CHEMICAL PATHOLOGY

<i>Professor</i>	G. H. LATHE, M.Sc., M.D.C.M., Ph.D., <i>McGill</i>
<i>Lecturers</i>	W. N. ANDERSON, B.Sc., Ph.D., <i>Belfast</i> T. HARGREAVES, M.B., B.S., B.Sc., <i>London</i> , M.R.C.S., L.R.C.P.
<i>Lecturers (temporary)</i>	J. B. HOLTON, B.Sc., <i>London</i> , A.R.C.S. M. J. LEVELL, M.A., <i>Cambridge</i> Miss DOROTHY C. PARK, M.Sc., <i>Durham</i>
<i>Demonstrators</i>	J. SPENCER-PEET, M.B., B.S., <i>London</i> C. TOOTHILL, B.Sc., <i>London</i> , Ph.D., <i>Leeds</i>
<i>Research Assistant</i>	T. R. RICKETTS, B.Sc., <i>Leeds</i>
<i>Analysts</i>	Miss E. M. DUDELL, B.Sc., <i>London</i> P. S. LORD, A.R.I.C. Miss JEAN W. SUMMERSCALES, M.Sc., <i>Leeds</i>
<i>Clerks</i>	One vacancy Mrs. JANE M. STRAIN Mrs. JUNE FISHER Mrs. JOYCE E. MORTON
<i>Chief Technician</i>	A. RUMFITT, F.I.M.L.T., A.I.S.T.

MEDICINE

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Bacteriology*

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Lecturers

Lecturer in Medical Mycology

Demonstrator

Honorary Demonstrators

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Research Assistants

*Honorary Adviser in Electron
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D.L.O., D.T.M. & H.

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A. MYERS, A.I.M.L.T.

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*Professor of Experimental
Pathology and Director of
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M.D., *Sheffield*

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<i>Senior Research Fellow and Assistant Director of Cancer Research</i>	Vacant
<i>Reader in Cancer Research</i>	Mrs. GEORGIANA M. BONSER, M.D., <i>Manchester</i> , F.R.C.P., M.R.C.S., Morbidity Anatomist to St. James's Hospital
<i>Senior Lecturer in Experi- mental Biochemistry</i>	L. H. STICKLAND, M.A., Ph.D., <i>Cambridge</i>
<i>Lecturer in Experimental Pathology</i>	J. O. LAWS, M.A., M.B., B.Chir., <i>Cambridge</i> , Ph.D., <i>London</i> , M.R.C.P., M.R.C.S.
<i>Lecturers</i>	D. B. CLAYSON, B.A., <i>Oxford</i> , Ph.D., <i>Leeds</i> J. W. JULL, B.Sc., Ph.D., <i>Leeds</i>
<i>Research Assistants</i>	H. J. SMITH, B.Sc., <i>London</i> Mrs. DOROTHY J. STREETER, B.Sc., <i>Sheffield</i> Miss BARBARA M. PRICE, B.Sc., Ph.D., <i>London</i> P. F. WILDE, B.Sc., <i>Leeds</i> J. E. BAGNESS, B.Sc., <i>London</i> Miss ANN HARRIS, B.A., <i>Cambridge</i> J. J. CHILDS, B.Sc., <i>Leeds</i> , M.Sc., <i>Sheffield</i> Miss SANDRA PRENDERGAST, B.Sc., <i>Manchester</i> Mrs. LUCY E. SUTHERLAND, B.Sc., <i>London</i>
<i>Research Assistants (part-time)</i>	Mrs. MARJORIE PARSONS, M.B., Ch.B., <i>Leeds</i> Mrs. GRETTE M. THOMAS, M.D., <i>Leeds</i> Mrs. HONOR M. ANTHONY, M.B., Ch.B., <i>Leeds</i> Miss MARY R. ANDERSON, M.B., B.S., <i>Durham</i> , D.C.H., D.P.H.
<i>Analyst</i>	R. TURNER, H.N.C.
<i>Cancer Research Fellows:</i>	
<i>Henry Oxley Fellow</i>	Vacant
<i>Elizabeth and Louisa Ward Fellow</i>	Vacant

MEDICINE

<i>J. W. Wootton Research Fellow</i>	G. A. SALMON, B.Sc., Ph.D., <i>Leeds</i>
<i>Angus Rhodes Research Fellow</i>	L. R. A. BRADSHAW, B.Sc., <i>Sheffield</i> , Ph.D., <i>Leeds</i>
<i>Electron Microscopist</i>	Mrs. PAMELA REED
<i>Secretary</i>	Miss BETTY D. RIDSDALE
<i>Chief Technician</i>	G. LITTLEWOOD, A.I.M.L.T.

MEDICINE

MEDICINE

<i>Professor</i>	R. E. TUNBRIDGE, O.B.E., M.Sc., M.D., <i>Leeds</i> , F.R.C.P., J.P.
<i>Professor of Clinical Medicine</i>	S. J. HARTFALL, T.D., B.Sc., M.D., <i>Leeds</i> , F.R.C.P.
<i>Reader</i>	D. TAVERNER, M.B.E., M.D., <i>Leeds</i> , F.R.C.P.
<i>Senior Clinical Lecturers</i>	J. R. H. TOWERS, M.A., M.D., <i>Cambridge</i> , F.R.C.P. O. M. TELLING, M.A., D.M., <i>Oxford</i> , F.R.C.P.
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<i>Lecturers</i>	M. ATKINSON, M.D., <i>London</i> , M.R.C.P. P. G. F. NIXON, M.B., B.S., <i>Durham</i> , M.R.C.P. G. A. ROSE, D.M., M.A., <i>Oxford</i> , A.R.I.C. C. R. BLAGG, M.B., Ch.B., <i>Leeds</i> , M.R.C.P.
<i>Lecturer in Rheumatology</i>	V. WRIGHT, M.D., <i>Liverpool</i> , M.R.C.P.
<i>Lecturer in Biochemistry in Relation to Medicine</i>	D. A. HALL, B.Sc., Ph.D., <i>Leeds</i>
<i>Part-time Lecturer in the General Practice of Medicine</i>	R. A. MURRAY SCOTT, M.A., M.D., <i>Cambridge</i>
<i>Part-time Lecturer</i>	J. R. FOUNTAIN, M.D., <i>Edinburgh</i> , M.R.C.P.E.
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THE STAFF

<i>Senior Registrar and Tutor</i>	J. P. BINGLE, M.A., B.M., B.Ch., Oxford, M.R.C.P., D.Obst. R.C.O.G.
<i>Research Fellows</i>	J. W. CZERKAWSKI, B.Sc., <i>London</i> , Ph.D., <i>Leeds</i> Mrs. JEAN WILKINSON, B.Sc., Ph.D., <i>London</i> A. D. M. SMITH, B.Sc., M.B., B.Ch., <i>Wales</i> , M.R.C.P.
<i>Research Assistant</i>	E. P. LANGWORTH, M.B., Ch.B., <i>Leeds</i>
<i>Research Assistant in Clinical Medicine</i>	K. SWINBURNE, M.A., M.B., B.Chir., <i>Cambridge</i>
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<i>Clerks</i>	Miss BARBARA KNOWLES Miss ANNE P. PADGETT Miss CAROL L. BURDIN

DERMATOLOGY

<i>Senior Clinical Lecturers</i>	F. F. HELLIER, O.B.E., M.A., <i>Cam-</i> <i>bridge</i> , M.D., <i>London</i> , F.R.C.P. S. T. ANNING, T.D., M.A., M.D., <i>Cambridge</i> , F.R.C.P.
<i>Lecturer in Medical Mycology</i>	C. J. P. LA TOUCHE, M.Sc., L.A.H., <i>Dublin</i>
<i>Assistant Lecturer</i>	Vacant
<i>Honorary Demonstrator</i>	A. J. E. BARLOW, M.D., <i>Leeds</i> , L.R.C.P., M.R.C.S.
<i>Senior Registrar and Tutor</i>	Vacant

INFECTIOUS DISEASES

<i>Senior Clinical Lecturer</i>	E. C. BENN, M.B., Ch.B., D.P.H., <i>Liverpool</i> , Medical Superintendent, Seacroft Hospital
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NEUROLOGY

<i>Senior Clinical Lecturer</i>	H. G. GARLAND, T.D., M.D., <i>Leeds</i> , F.R.C.P.
<i>Clinical Lecturer</i>	M. J. PARSONAGE, B.Sc., M.B., Ch.B., <i>Manchester</i> , M.R.C.P., D.C.H.

RHEUMATISM RESEARCH

<i>Research Fellow in the Surgery of Rheumatism</i>	Vacant
<i>Research Fellow in Rheumatism</i>	Vacant

MEDICINE

THERAPEUTICS

Professor

Vacant

TUBERCULOSIS

Part-time Lecturer

G. F. EDWARDS, *M.B.E., M.B., B.S.,
London, M.R.C.P.*

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Clinical Lecturer

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L.R.C.P., M.R.C.P.(E.)*

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Mrs. JESSIE R. G. BUCHANAN, *M.B.,
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PÆDIATRICS AND CHILD HEALTH

27 Blundell Street, Leeds 1

Professor

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Edinburgh, F.R.C.P.E., F.R.C.P.,
F.R.S.E.*

Senior Clinical Lecturer

E. C. ALLIBONE, *Ph.D., Birmingham,
M.D., Leeds, F.R.C.P., D.P.M.*

Lecturers

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Edinburgh, F.R.C.P.E., D.C.H.,
London*

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D.C.H., London, M.R.C.P.E.*

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London, M.R.C.P., D.C.H.*

Part-time Lecturer

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Leeds, D.C.H., London*

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*B.Sc., M.D., Leeds, L.R.C.P.,
M.R.C.S., D.R.C.O.G., D.C.H.,
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Assistant

A. BOGDAN, *M.D., M.R.C.P.E.,
D.C.H., London*

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Nursing Procedure*

Miss MARGARET L. LANGHORNE,
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15 Hyde Terrace, Leeds 2

*Nuffield Professor and Head of
the Department*

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Leeds, M.R.C.P.E., M.R.C.S.,
L.R.C.P., F.B.Ps.S.

Senior Lecturers in Psychiatry

E. A. M. WOOD, M.B., Ch.B., *Edin-*
burgh, M.R.C.P.Ed., D.P.M.

One vacancy

*Senior Research Fellow (Medical
Research Council)*

M. HAMILTON, M.D., B.S., *London*,
L.R.C.P., M.R.C.S., D.P.M.

Temporary Lecturer in Psychiatry

D. G. BROWN, M.B., Ch.B.,
M.R.C.P.E., D.P.M., *Leeds*

Lecturers in Clinical Psychology

A. J. YOUNG, M.A., *Cambridge*, B.Ed.,
Edinburgh

R. G. WEBSTER, M.A., *Aberdeen*

*Lecturer in Psychiatric Social
Work*

Miss MARION B. H. WHYTE, M.A.,
Edinburgh

Senior Registrar and Tutor

M. W. ATKINSON, M.B., Ch.B.,
D.P.M., *Leeds*

Psychiatric Social Worker

Miss NANCY NEWBIGIN, M.A.,
Oxford

Part-time Lecturers in Psychiatry

J. VALENTINE, M.B., Ch.B., *Glasgow*,
D.P.M.

A. H. WILSON, M.B., Ch.B., *Aberdeen*,
D.P.M.

R. E. D. MARKILLIE, M.B., B.S.,
D.P.M., M.R.C.S., L.R.C.P.

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D.P.M., *Leeds*

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D.P.M., *Durham*, M.R.C.P.E.

J. B. COOK, M.D., *London*, M.R.C.P.

*Part-time Demonstrator in
Neurology*

The Rev. H. J. S. GUNTRIP, B.A.,
B.D., Ph.D., *London*, F.P.Ps.S.

Part-time Psychotherapist

MEDICINE

Administrative Assistant

Miss LUCY W. MITCHELL, M.A.,
Cambridge

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SURGERY

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Professorial Surgical Unit*

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F.R.C.S.

*Senior Lecturer and Assistant
Director, Professorial Surgical Unit*

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F.R.C.S.

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D.M., M.Ch., *Oxford*, F.R.C.S.

A. J. C. LATCHMORE, M.B.E., M.S.,
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M.B., Ch.B., *Leeds*, F.R.C.S.

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Cambridge, F.R.C.S., L.R.C.P.,
D.T.M.&H.

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Lecturer

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L.R.C.P., F.R.C.S.

*Honorary Lecturer in Plastic
Surgery*

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Leeds, F.R.C.S.

Senior Registrar and Tutor

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Adelaide, F.R.C.S.

Senior Technician

M. P. WALKER

Medical Artist

Miss MARY D. BROWN, A.T.D.

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Clinical Lecturer

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Manchester, F.R.C.S.

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M.D., *Melbourne*, F.R.C.S.

G. W. BLACK, M.B., B.S., *London*,
F.R.C.S.

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

Honorary Lecturer

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Senior Registrar and Tutor

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O. C. LORD, Ch.M., Leeds, D.L.O., F.R.C.S.E.

Clinical Lecturer

C. P. MILLS, M.B., B.S., London, F.R.C.S.

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Senior Clinical Lecturer

GEOFFREY H. WOOLER, T.D., M.A., B.Chir., M.D., Cambridge, F.R.C.S., L.R.C.P.

Clinical Lecturer

J. A. AYLWIN, M.B., Ch.B., Leeds, F.R.C.S.

Temporary Lecturer

D. A. WATSON, M.B., B.S., London, F.R.C.S.

UROLOGICAL SURGERY

Professor of Urological Surgery

L. N. PYRAH, M.Sc., Ch.M., Leeds, F.R.C.S.

Clinical Lecturer

F. P. RAPER, M.B., Ch.B., Leeds, F.R.C.S.

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Research Assistants

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L. MARTINDALE, B.Sc., Edinburgh

Miss B. A. CHORLTON, B.Sc., Leeds

N. EDWARDS, B.Sc., Bristol

Senior Technician

P. M. ZAREMSKI, F.I.M.L.T.

ANÆSTHETICS

24 Hyde Terrace, Leeds 2

*Reader and Head of the
Department*

Senior Clinical Lecturer

Clinical Lecturers

Lecturer

Secretary

Senior Technician

Technician

R. P. HARBORD, M.D., *Liverpool*,
D.A., F.F.A.R.C.S.

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Leeds, D.A., F.I.C.A., F.F.A.R.C.S.

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L.R.C.P., M.R.C.S., D.A.,
F.F.A.R.C.S.

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B.A.O., *Belfast*, D.A., F.F.A.R.C.S.

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F.F.A.R.C.S.

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D.A., F.F.A.R.C.S.

J. J. L. ABLETT, M.B., B.S., *London*,
L.R.C.P., M.R.C.S., D.A.,
F.F.A.R.C.S.

S. J. S. WEBB, M.B., Ch.B., B.Sc.,
New Zealand, F.F.A.R.C.S.

Miss O. EVELINE DEERING

K. HORNER

B. GOUGH

OBSTETRICS AND GYNÆCOLOGY

OBSTETRICS AND GYNÆCOLOGY

28 Hyde Terrace, Leeds 2

Professor

Senior Lecturer

Senior Clinical Lecturers

Clinical Lecturer

J. S. SCOTT, M.D., *Glasgow*, F.R.C.S.E.
M.R.C.O.G.

Miss URSULA M. LISTER, M.D.,
London, F.R.C.S.E., F.R.C.O.G.

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F.R.C.S., F.R.C.O.G.

H. AGAR, B.Sc., M.B., Ch.B., *Leeds*,
M.B., B.S., *London*, F.R.C.S.,
F.R.C.O.G.

J. B. FARQUHAR, M.B., Ch.B.,
Birmingham, F.R.C.S., F.R.C.O.G.

THE STAFF

<i>Lecturer</i>	R. R. MACDONALD, M.B., Ch.B., <i>Glasgow</i> , D.Obst.R.C.O.G., M.R.C.O.G.
<i>Part-time Lecturer</i>	T. F. REDMAN, T.D., M.B., Ch.B., <i>Manchester</i> , F.R.C.S.E., F.R.C.O.G.
<i>Honorary Lecturer</i>	G. W. THEOBALD, M.A., B.Chir., M.D., <i>Cambridge</i> , M.R.C.P., F.R.C.S.E., F.R.C.O.G.
<i>Senior Registrar and Tutor</i>	Vacant
<i>Secretary</i>	Miss JANET ASHWELL
<i>Clerk</i>	Miss E. JEAN GILYARD

RADIOLOGY RADIODIAGNOSIS

<i>Professor</i>	A. S. JOHNSTONE, M.D., <i>Edinburgh</i> , F.R.C.S.E., F.F.R., D.M.R.E., <i>Cam-</i> <i>bridge</i>
<i>Part-time Lecturers</i>	G. H. ILLINGWORTH, M.A., <i>Oxford</i> , M.D., <i>Leeds</i> , L.R.C.P., M.R.C.S., D.M.R.Ed. One vacancy
<i>Temporary Research Fellow</i>	A. HUGH, M.B., B.Ch., <i>Wales</i> , M.R.C.P.E., D.M.R.D.
<i>Part-time Radiographer</i>	Vacant

RADIOTHERAPY

<i>Senior Clinical Lecturer</i>	J. R. NUTTALL, M.D., <i>Manchester</i> , D.M.R., F.F.R.
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MEDICAL PHYSICS

<i>Professor</i>	F. W. SPIERS, Ph.D., D.Sc., <i>Birmingham</i>
<i>Senior Lecturers</i>	G. W. REED, M.Sc., <i>Leeds</i> G. A. HAY, M.Sc., <i>Durham</i>
<i>Lecturers</i>	Mrs. NORMA JACOBS, B.Sc., <i>Leeds</i> F. HEPBURN, M.A., M.Sc., <i>Cambridge</i> , Ph.D., <i>Nottingham</i>
<i>Medical Research Council Fellow</i>	J. B. DAWSON, B.Sc., <i>Manchester</i> , Ph.D., <i>Leeds</i>
<i>Research Assistants</i>	Miss M. SUSAN CHESTERS, B.Sc., <i>London</i> , M.Sc., <i>Birmingham</i> P. W. HENSON, B.Sc., <i>Exeter</i> T. A. IINUMA, M.Sc., <i>Tokyo</i>

MEDICINE

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<i>Honorary Director</i>	Professor F. W. SPIERS, Ph.D., D.Sc., <i>Birmingham</i>
<i>Deputy Director</i>	P. R. J. BURCH, M.A., <i>Cambridge</i> , Ph.D., <i>Leeds</i>
<i>Research Fellow</i>	D. HUGHES, B.Sc., Ph.D., <i>Nottingham</i> , A.Inst.P., A.M.I.E.E.
<i>Research Assistant</i>	J. C. DUGGLEBY, B.Sc., <i>London</i>

PREVENTIVE MEDICINE AND PUBLIC HEALTH

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<i>Mechanical Maintenance Engineer</i>	A. HARPER, A.M.Inst.F.
<i>Senior Technical Assistant</i>	A. GILPIN, F.R.P.S.
<i>Technical Assistant</i>	J. WARDMAN
<i>Architectural Assistant</i>	B. HILL
<i>Draughtsman</i>	K. REED
<i>Electrical Technical Assistant</i>	D. L. McGRAIL
<i>Mechanical Technical Assistant</i>	D. H. ALLEN
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<i>Assistant Clerks of Works</i>	R. A. SMITH S. COLLINS
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<i>Foreman Joiner</i>	P. LYONS
<i>Foreman Plumber</i>	H. BARROWCLOUGH
<i>Foreman Painter</i>	L. TAYLOR
<i>Superintendent of Gardens</i>	B. G. BROOKS, D.H., <i>Edinburgh</i>
<i>Head Groundsman</i>	C. L. HILL
<i>Head Porter</i>	J. BRUMPTON, T.D.
<i>Superintendent of Cleaners</i>	Mrs. MAY KELLY

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<i>Secretary</i>	D. G. F. EASTWOOD, B.Sc., <i>Leeds</i>
<i>Clerk to the University Union</i>	H. BLOOD, M.B.E.

ADMINISTRATIVE

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<i>Porter-Caretaker of the Union Building</i>	E. H. JONES

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<i>President of the London Branch</i>	LORD NETHERTHORPE, B.Sc., LL.D.
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<i>Deputy Chief Catering Officer and Manageress of the Senior Common Room</i>	Miss LILIAN RHODES
<i>Manageress of the Coffee Lounge</i>	Miss ELIZABETH MILLER

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41 University Road, Leeds 2

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<i>Administrative Officer (W.R.A.C.)</i>	Vacant
<i>Adjutant</i>	Captain H. O. PARKER

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<i>Commanding Officer</i>	Squadron Leader A. V. E. PALMER
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REPRESENTATIVES OF THE UNIVERSITY ON COMMITTEES AND ON OTHER INSTITUTIONS

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

THE JOINT MATRICULATION BOARD

	<i>Appointment expires</i>
Professor EVANS	June 1962 (1)
Professor GILLIES	June 1962 (1)
Professor J. G. WILSON	June 1962 (1)
Professor E. J. WOOD	June 1962 (1)

COURTS OF OTHER UNIVERSITIES

Birmingham	Mr. B. S. PAGE	Dec. 1963 (3)
Bristol	Professor WALSH	May 1965 (7)
Hull	Professor GILLIES	July 1963 (3)
Liverpool	Professor R. F. BROWN	Dec. 1962 (3)
Nottingham	Professor ROBERTS	Feb. 1964 (3)
Sheffield	Professor CLAPTON	June 1963 (3)

EDUCATION COMMITTEES

North Riding	Professor RAYBOULD	March 1964 (3)
East Riding	Professor BYWATER	Feb. 1962 (1)
Keighley Committee for Education	Professor CAMERON	May 1962 (1)
Morley Further Education Sub-Committee	Dr. F. J. FOWLER	June 1962 (1)

AFFILIATED INSTITUTIONS AND MEMBER TRAINING COLLEGES OF THE INSTITUTE OF EDUCATION

College of the Resurrection, Mirfield	Professor RUSE	June 1963 (3)
Huddersfield Technical College	Professor CARTER	May 1962 (1)
Rawdon College (Board of Studies)		June 1962 (1)
St. John's College, York	Dr. K. LOVELL	Oct. 1962 (1)
Bingley Training College	{ Professor DENNY* { Mr. C. M. JONES	
Bretton Hall	{ Professor WHEWELL* { Mr W. B. THOMPSON	
Huddersfield Training College	Professor CARTER*	

* Nominated by the Institute of Education

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	April 1962 (1)
	{ Miss M. METCALFE SMITH*	
Ripon Training College		
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 1964 (3)
Askrigg, Yorebridge Grammar School	Dr. J. MacGREGOR	March 1964 (3)
Barnsley and District: Broadway Technical Grammar School	Professor KING	May 1964 (3)
Holgate Grammar School	Professor OAKLEY	Jan. 1962 (5)
Grammar School Foundation	Professor OAKLEY	Jan. 1964 (3)
Batley : Grammar School Foundation Group 1 Secondary Schools	Dr. J. P. ROBERTS Mrs. G. M. BONSER	March 1964 (3) July 1964 (3)
Bentham, Collingwood and Baynes Foundation	Emeritus Professor J. W. HARVEY	Dec. 1963 (5)
Beverley Grammar School	Emeritus Professor VERSEY	Dec. 1963 (3)
Bingley Grammar School	Mr. K. L. BUTCHER	Sept. 1964 (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	Aug. 1963 (3)
Brighouse: Grammar School for Girls	Miss S. A. WALLBANK	July 1964 (3)
Rastrick Grammar School	Mr. P. M. SHEARD	July 1963 (3)
Calder High School	Miss S. A. WALLBANK	July 1964 (3)
Castleford Secondary Schools	Mr. S. F. SANDERSON	July 1964 (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 1964 (3)
Cudworth Secondary School	Dr. F. J. FOWLER	July 1964 (3)
Dewsbury Secondary Schools	Dr. J. MacARTHUR	June 1963 (3)
Drax, Read Grammar School	Professor ORTON	March 1964 (3)
Easingwold Grammar and Modern School	Mr. T. B. CALDWELL	March 1964 (3)
Elland Grammar School	Mr. H. BAXANDALL	July 1964 (3)

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REPRESENTATIVES

Eston Grammar School	Dr. K. L. HUNT	March 1964 (3)
Felkirk County Secondary School	Mr. J. C. MACRAE	July 1964 (3)
Goole:		
Grammar School	} Mr. D. L. SHAW	July 1964 (3)
Modern School		
Halifax:		
Crossley and Porter Schools	Dr. J. E. GARSIDE	May 1966 (5)
Rishworth Grammar School	Professor JAMES	March 1962 (3)
Harrogate:		
County Secondary Schools (Claro Division)	Miss M. E. A. BOULTWOOD	July 1964 (3)
Grammar School	Professor POLSON	July 1964 (3)
Secondary Technical School	Dr. P. A. BRISCOE	May 1964 (3)
Hekmondwike Grammar School	Dr. E. R. CLARK	July 1964 (3)
Hemsworth:		
Grammar School	} Mr. R. E. MORGAN	July 1964 (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. 1967 (5) Nov. 1964 (3)
Keighley:		
Boys' Grammar School	} Dr. M. R. R. DAVIES	{ May 1962 (5) June 1962 (3)
Girls' Grammar School		
Drake and Tonson's Foundation	Dr. M. R. R. DAVIES	April 1964 (3)
Kinsley Modern School	Mr. R. E. MORGAN	July 1964 (3)
Knarborough, King James's Grammar School and Grammar School Foundation	Professor POLSON	April 1962 (3)
Leeds Education Committee		
Advisory Boards:		
Allerton Area	Emeritus Professor VERSEY	Oct. 1962 (1)
Central Area	Professor RUSE	Oct. 1962 (1)
East Leeds Area	Dr. K. LOVELL	Oct. 1962 (1)
Lawnswood Area	{ Dr. F. E. HOARE	Oct. 1962 (1)
	{ Miss M. S. HEWITT	Oct. 1962 (2)
Roundhay Area	{ Miss L. W. BREBNER	Oct. 1962 (1)
Seacroft Area	{ Mr. A. M. KEAN	Oct. 1962 (1)
South Leeds Area	Mr. H. BAINES	Oct. 1962 (1)
West Central Area	Mr. A. H. WOOLRYCH	Oct. 1962 (1)
West Leeds Area	} Professor PRESTON	Oct. 1962 (1)
Branch Colleges:		
Commerce	Mr. H. SPEIGHT	June 1962 (1)
Engineering and Science	Professor WARD	June 1962 (1)
Building	Dr. E. W. BENNETT	June 1962 (1)
Leeds Girls' High School	Professor ULLMANN	June 1963 (3)
Leeds Grammar School	{ Professor WALSH	May 1964 (3)
	{ Professor WILSON	May 1964 (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

Morley :		
Grammar School	}	Dr. F. J. FOWLER
Modern Schools		
		July 1964 (3)
Normanton Grammar School	}	Dr. B. L. WELCH
		Dec. 1964 (3)
		Dec. 1964 (3)
		Dec. 1964 (3)
Normanton Grammar School Foundation		Dr. B. L. WELCH
		Dec. 1961
Northallerton Grammar School		Dr. J. MacGREGOR
		May 1965 (5)
Ossett Grammar School		Mr. I. B. PERROTT
		July 1964 (3)
Otley, Prince Henry's Grammar School and Foundation		Dr. J. E. GARSIDE
		Nov. 1963 (3)
Pickering, Lady Lumley's Grammar and Modern School and Foundation		Mr. W. R. GRIST
		May 1964 (3)
Pontefract :		
The King's School	}	Dr. J. W. BELTON
The King's School Foundation		
County Secondary Boys' School	}	Mrs. E. ROBINSON
Pontefract and District Girls' High School		
Willow Park Modern School		
		July 1964 (3)
		July 1964 (3)
Pudsey :		
County Secondary Schools		Dr. L. MACKINNON
		July 1964 (3)
Fulneck Boys' School		Dr. J. W. BELTON
		March 1964 (3)
Fulneck Girls' School		Miss F. M. STEVENS
		March 1964 (3)
Redcar :		
Cleveland Grammar School		Mr. J. W. SAUNDERS
		March 1964 (3)
Coatham School		Mr. J. W. SAUNDERS
		Oct. 1964 (5)
Richmond High School for Girls		Dr. K. L. HUNT
		March 1964 (3)
Ripon Grammar School		Miss F. M. STEVENS
		July 1964 (3)
Ripon High School for Girls		Miss F. M. STEVENS
		July 1964 (3)
Rothwell Grammar School		Mr. H. SPEIGHT
		July 1964 (3)
Royston Secondary School		Dr. F. J. FOWLER
		July 1964 (3)
Scarborough :		
Girls' High School		Miss M. E. A. BOULTWOOD
		May 1964 (3)
High School for Boys		Mr. G. L. THOMPSON
		May 1964 (3)
Sedbergh School		Mr. D. E. F. BINYON
		July 1963 (3)
Selby High School for Girls		Miss V. N. R. McCRIRICK
		July 1964 (3)
Settle, Giggleswick School		Professor BYWATER
		March 1964 (3)
Settle High School		Miss A. J. MARTIN
		July 1964 (3)
Skipton :		
Girls' High School		Miss J. BLOXHAM
		April 1962 (5)
Ermysted's Grammar School		Mr. D. E. F. BINYON
		Jan. 1965 (3)
Slaitwaite Educational Foundation		Mr. H. BAXANDALL
		April 1964 (3)
South Elmsall and South Kirkby County Secondary Schools		Mr. J. W. COX
		July 1964 (3)
Sowerby Bridge County Secondary Schools		Mrs. E. P. THOMPSON
		July 1964 (3)
Stanley Modern School		Mr. H. SPEIGHT
		July 1964 (3)

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Tadcaster:		
Grammar School	Dr. D. G. BURNS	June 1964 (3)
Oglethorpe and Dawson Educational Foundation	Mr. A. K. C. OTTAWAY	Nov. 1962 (3)
Thirsk:		
Grammar School	Miss S. A. WALLBANK	March 1964 (3)
Skellfield School	Mrs. C. S. WHEWELL	
Todmorden Secondary Schools	Mr. H. STANSFIELD	July 1964 (3)
Upper Agbrigg Secondary Schools	Mr. H. BAXANDALL	July 1964 (3)
Upton Modern School	Mr. A. K. C. OTTAWAY	July 1964 (3)
Wakefield:		
Grammar School	Professor DICKINSON	July 1962 (3)
Silcoates School	Dr. J. W. BAKER	
Whitby Grammar School	Dr. K. L. HUNT	March 1964 (3)
Wortley Free School Trust	Professor ROBERTS	May 1964 (3)
Yarm Grammar School	Mr. J. W. SAUNDERS	March 1964 (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 1964 (3)
Region 5	Dr. E. LIGHTFOOT	July 1964 (3)

OTHER BODIES

Adult Education, Universities Council for	Professor CAMERON Professor RAYBOULD	
Agricultural Botany, Council of the National Institute of	Professor BYWATER	Jan. 1966 (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	Professor KING	July 1964 (3)
Bradford Institute of Technology	Professor JOHNSON	May 1962 (1)
Brighouse Children's Theatre	Mr. E. G. HAUGER	July 1964 (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 1964 (3)
Catterick Camp, Co-ordinating Committee for Higher Education in	Professor RAYBOULD	

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City and Guilds of London Institute: Advisory Committees:		
Dyeing of Textiles	Emeritus Professor BURTON	
Leather Manufacture		
Consultative Committee for Textile Subjects	Professor SPEAKMAN	
Clinical Research, Joint Com- mittee for	{ The VICE-CHANCELLOR The DEAN OF THE FACULTY OF MEDICINE	March 1962 (1) March 1962 (1) March 1962 (1)
Coxwold Charity	Professor TUNBRIDGE	
Dewsbury, Batley and Mirfield Group Hospital (Nurses Educa- tion Committee)	Mr. W. P. BAKER	Oct. 1962 (3)
	Mr. A. K. C. OTTAWAY	April 1962 (1)
Dewsbury and Batley Technical and Art College	Mr. D. C. SNOWDEN	July 1962 (3)
Domestic Studies, National Council for	Miss L. M. PITHER	
Educational Research, National Foundation for	Professor WALSH	
Federated Superannuation System for Universities, Central Council of	{ Mr. E. WILLIAMSON Mr. W. A. WIGHTMAN	Dec. 1962 (1) Dec. 1962 (1)
Field Studies, Council for the Promotion of, General Advisory Committee	{ Dr. H. HENSON Dr. W. A. SLEDGE	
General Dental Council	Professor HOPPER	July 1964 (5)
General Medical Council	Mr. A. B. PAIN	July 1962 (3)
Hamlyn Trust	Professor JAMES	
Harrogate Art School	Mr. QUENTIN C. S. BELL	March 1964 (3)
Harrogate Technical Institute	Dr. P. A. BRISCOE	March 1964 (3)
Health Visitors Training Centres Standing Conference	{ Dr. A. N. MACPHAIL Miss F. M. MAWSON	
Hemsworth Mining and Tech- nical Institute	Mr. J. McFARLANE	July 1964 (3)
Higher Education Overseas, Inter- University Council for	The VICE-CHANCELLOR	July 1964 (5)
Holgate Hill Educational Settle- ment, York	Mr. E. A. VAUGHAN	Jan. 1962 (1)
Hospital Standing Joint Commit- tee	{ The VICE-CHANCELLOR Professor SPIERS The DEAN OF THE FACULTY OF MEDICINE	April 1962 (1) April 1962 (1) April 1962 (1)
I.C.I. Fellowships, Inter- University Standing Consulta- tive Committee on	Professor LYTHGOE	
Keighley Technical College	Mr. W. J. ONIONS	May 1964 (3)
Leeds Area Nurse-Training Committee	Miss U. M. LISTER	March 1966 (5)
Leeds Children's Holiday Camp Association		
Leeds College of Art	Mr. QUENTIN C. S. BELL	Oct. 1962 (1)

REPRESENTATIVES

Leeds College of Technology	Professor WILSON	Oct. 1962 (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 1962 (1)
National Advisory Council for Training and Supply of Teachers	Professor FLETCHER	
National Leathersellers College	Emeritus 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 1962 (1)
	Professor TUNBRIDGE	June 1962 (1)
Regional Rheumatism Committee	The VICE-CHANCELLOR	
	Professor HARTFALL	
	Professor HEMINGWAY	
Religious Education Council of the Diocese of Ripon	Mr. W. B. THOMPSON	May 1964 (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 Universities Council for Social Administration Committee	Professor GREBENIK	Sept. 1962 (1)
	Mr A. H. HANSON	Sept. 1962 (1)
	Professor GREBENIK	Sept. 1962 (1)
	Mrs. C. D. E. COLLINS	
Public Administration Committee	Mr. A. H. HANSON	Sept. 1962 (1)
Swarthmore Settlement Council, Leeds	Emeritus Professor J. W. HARVEY	Dec. 1962 (3)
	Dr. J. W. BELTON	Dec. 1962 (3)
Universities and Accountancy Profession, Joint Committee	Mr. P. M. SHEARD	
Wakefield, Pinderfields Hospital School of Remedial Gymnastics	Mr. R. E. MORGAN	July 1964 (3)
	Dr. S. E. FINLAY	July 1964 (3)
	Mr. P. E. OWEN	July 1964 (3)
West Riding Central Examinations Council	Dr. K. LOVELL*	June 1964 (3)
West Riding Consultative Committee for Education	Dr. K. LOVELL	March 1962 (1)
West Riding T.A. and A.F. Association	Lt.-Col. WILLIAMSON	Nov. 1963 (3)
Wool Textile Research Council	The VICE-CHANCELLOR	April 1963 (3)
	Professor SPEAKMAN	April 1963 (3)

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REPRESENTATIVES

Yorkshire Academic Board for Advanced Technology and Commerce	{ The VICE-CHANCELLOR	March 1964 (3)
	Professor CARTER	March 1964 (3)
	Professor ROBERTS	March 1964 (3)
	Professor SPEAKMAN	March 1964 (3)
Yorkshire Board of Legal Studies	{ The VICE-CHANCELLOR	June 1962 (1)
	Professor JAMES	June 1962 (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 KING	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 NUTTING	March 1962 (3)
	{ Professor ROBERTS	March 1962 (3)
Programme for the Training of Teachers	Mr. A. M. KEAN*	March 1962 (3)
Textiles	{ Mr. W. J. ONIONS	March 1962 (3)
	{ Professor WHEWELL	March 1962 (3)
Consultative Committee on Agricultural Education	Professor WESTERN	March 1962 (3)
Advisory Panels:		
Physics	Professor STONER	March 1962 (3)
Educational Activities Among Adults		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 1964 (3)
County Advisory Committee for Management Studies	Mr. F. P. G. WHITAKER	March 1964 (3)
Yorkshire County Boy Scouts' Association	Professor COWLING	
Yorkshire Federation of Women's Institutes, Committees on:		
Drama	Miss P. M. S. COBB	March 1964 (3)
Education and Public Questions	Mr. T. B. CALDWELL	March 1964 (3)
Yorkshire (W.R.) Institute of Agriculture, Askham Bryan	Professor BYWATER	March 1964 (3)
Yorkshire Rural Community Council	Mr. T. B. CALDWELL	May 1964 (3)
Young Men's Christian Association, Board of Management, City of Leeds	Mr. A. LAING	June 1964 (5)
Zion Sunday School Fund	The Rev. Mr. BARCLAY	

* Nominated by the Institute of Education

EXTERNAL EXAMINERS

The Faculty of Arts

<i>Hebrew</i>	Professor HENTON DAVIES, Regent's Park College, Oxford
<i>Arabic</i>	Dr. W. MONTGOMERY WATT, The Muir Institute, 6 Buccleugh Place, Edinburgh 8
<i>Aramaic and Syriac</i>	Rev. Professor J. WOOD, 3 East Savile Road, Edinburgh 9
<i>English Language</i>	Dr. E. J. DOBSON, Jesus College, Oxford
<i>English Literature</i>	Professor J. R. KINSLEY, University of Nottingham
<i>Portuguese</i>	Mr. H. B. HALL, University of Liverpool
<i>Geography</i>	Professor C. A. FISHER, University of Sheffield
<i>Music</i>	Professor IVOR KEYS, University of Nottingham
<i>Philosophy of Religion</i>	Professor T. E. JESSOP, University of Hull
<i>History of Religion</i>	Rev. Dr. CLIFFORD T. CHAPMAN, Abinger Rectory, Dorking, Surrey
<i>Old Testament History and Religion</i>	Rev. A. A. ANDERSON, University of Manchester
<i>New Testament Language and Literature</i>	Rev. S. I. BUSE, University College of North Wales, Bangor
<i>Phonetics</i>	Mr. J. L. M. TRIM, 4 Lansdowne Road, Cambridge
<i>Fine Art</i>	Mr. GILES H. ROBERTSON, University of Edinburgh
<i>Psychology</i>	Professor J. COHEN, University of Manchester
<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>Economics</i>	Mr. G. D. N. WORSWICK, Magdalen College, Oxford
<i>Economic History</i>	Professor H. J. HABAKKUK, All Souls College, Oxford
<i>Industrial Relations</i>	Professor M. P. FOGARTY, University College of South Wales and Monmouthshire, Cardiff
<i>Accountancy</i>	Mr. P. HELPS, University of Hull
<i>Sociology</i>	Professor D. V. GLASS, London School of Economics and Political Science, University of London
<i>Social Anthropology</i>	Dr. K. L. LITTLE, University of Edinburgh
<i>Social Medicine</i>	Professor E. M. BACKETT, University of Aberdeen

The Faculty of Law

<i>Law</i>	Professor E. C. RYDER, University College, University of London
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EXTERNAL EXAMINERS

The Faculty of Science

Organic Chemistry
Inorganic and Physical Chemistry
Zoology
Psychology
Bacteriology

Professor G. W. KENNER, University of Liverpool
Professor J. M. ROBERTSON, University of Glasgow
Professor V. C. WYNNE EDWARDS, University of Aberdeen
Professor J. COHEN, University of Manchester
Professor R. CRUICKSHANK, University of Edinburgh

The Faculty of Technology

Civil Engineering
Mechanical Engineering
Electrical Engineering
Applied Geophysics
Ceramics
Metallurgy
Colour Chemistry and Dyeing
Leather Industries
Agriculture
Agricultural Bacteriology
Agricultural Botany
Agricultural Chemistry
Agricultural Zoology
Animal Physiology and Veterinary Science

Professor S. C. REDSHAW, University of Birmingham
Professor J. P. DUNCAN, University of Sheffield
Professor M. R. GAVIN, University College of North Wales, Bangor
Professor R. McADAM, Mining Laboratories, 79 Grassmarket, Edinburgh
Dr. N. F. ASTBURY, The British Ceramic Research Association, Queens Road, Penkhull, Stoke-on-Trent
Professor G. W. AUSTIN, New Barn, Lindsell, Great Easton, Essex
Professor D. H. HEY, King's College, University of London
Dr. J. H. BOWES, British Leather Manufacturers' Research Association, Milton Park, Egham, Surrey
Professor J. D. IVINS, University of Nottingham
Mrs. A. C. STIRLING, Edinburgh School of Agriculture, West Maine Road, Edinburgh
Professor J. COLHOUN, University of Manchester
Mr. H. H. NICHOLSON, Selwyn College, University of Cambridge
Dr. M. I. CRICHTON, University of Reading
P. L. SHANKS, Esq., Veterinary Laboratories, Mill of Craibstone, Bucksburn, Aberdeen

The Faculty of Medicine

Anatomy
Physiology
Biochemistry
Pharmacology
Pathology
Bacteriology
Medicine

Professor G. M. WYBURN, University of Glasgow
Professor E. NEIL, Middlesex Hospital Medical School, Mortimer Street, London W.1
Professor J. N. DAVIDSON, University of Glasgow
Professor M. WEATHERALL, London Hospital Medical College, Turner Street, London E.1
Professor R. C. CURRAN, St. Thomas's Hospital Medical School, London S.E.1
Professor R. CRUICKSHANK, University of Edinburgh
Professor W. MELVILLE ARNOTT, University of Birmingham

EXTERNAL EXAMINERS

<i>Dermatology</i>	Dr. A. ROOK, 13 Brookside, Cambridge
<i>Pædiatrics</i>	Dr. J. O. FORFAR, Western General Hospital, Edinburgh
<i>Psychological Medicine</i>	Professor M. ROTH, King's College, University of Durham
<i>Surgery</i>	Mr. SELWYN F. TAYLOR, King's College Hospital, London S.E.5
<i>Obstetrics and Gynæcology</i>	Professor N. MORRIS, Charing Cross Hospital, 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 A. O. MACK, King's College, University of Durham, and Professor A. D. HITCHIN, Queen's College, University of St. Andrews

At the time of printing, external examiners for 1961-62 in the following subjects have not been appointed:

Greek	Applied Mathematics
Latin	Electronic Computation
Icelandic	Statistics
French (2)	Physics
Italian	Botany
German	Geology
Russian	Physiology
Spanish	Biochemistry
Modern History	Pharmacology (Science)
Medieval History	Pharmacy
Ancient History	Mining
Philosophy	Coal Preparation and Mineral Dressing
Biblical and Historical Theology	Gas Engineering and Fuel
Church History	Chemical Engineering
Education	Textile Industries
Government	Agricultural Economics
Pure Mathematics	

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.

REGULATIONS

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. These requirements are listed in the appropriate Faculty or departmental prospectus and in the pamphlet *Qualifications for Admission to First Degree Courses*, copies of which may be obtained from the Registrar.

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 1961-62 will be:

Monday, 2 October, 1961

Tuesday, 3 October, 1961

Wednesday, 4 October, 1961

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.

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- (iv) Students will then be registered as students of the University provided that they pay the appropriate fees to the office of the Bursar, or offer evidence satisfactory to the Bursar that they are holders of an award which includes payment of fees.
- (v) Except with the special permission of the Vice-Chancellor, students may not attend any lecture, laboratory or other class until they have received a registration certificate which must be presented on request to the head of the department concerned before beginning any course of study.

(b) The June Registration

Students already in attendance at the University will receive in June 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.

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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.

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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

REGULATIONS

- 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 augebitur scientia* between in chief three mullets argent and in base a rose of the last seeded proper. The crest shall be on a wreath of the colours a Greek sphinx sejant gules'.

REGULATIONS CONCERNING EXAMINATIONS

1. *Matriculation examinations*

Examinations for matriculation are conducted by the Joint Matriculation Board of the Universities of Manchester, Liverpool, Leeds, Sheffield and Birmingham.

Correspondence should be addressed to the Secretary, The Joint Matriculation Board, 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 head of department concerned and provided they are received before the last dates of entry for the examinations concerned as published in the University almanac.

5. *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.

REGULATIONS

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 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.

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.

Bodington Hall: Wardens, Mr. J. L. Woodhead, M.A.

Mr. R. D. Mackey, B.Sc., A.M.I.C.E.

Mr. G. F. Rainnie, M.A.

Mr. B. A. Kilby, M.A., Ph.D.

The halls of residence for women are:

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

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Lupton Hall: Warden, Miss Irene Werth, M.A.

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 1 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 1 August, 1957, requires the payment of a minimum of five annual subscriptions and no student who is not a life member before 1 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 1 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.

UNIVERSITY UNION

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 1s. 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. H. Harvey, M.A., 4 Caythorpe Road, Leeds 16.
Telephone: Leeds 5-1129.

Church of England

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

Assistant: The Rev. G. Lang, M.A.

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. H. V. McAtamney, S.J., 25 Clarendon Place, Leeds 2.
Telephone: Leeds 2-7421.

United Hebrew Congregation

The Senior Rabbi, 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 gymnasias 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*

In order to avail themselves of the provisions of the National Health Service, students living away from their homes during the University terms are advised to register with a local doctor in the Leeds district for the period of their University course. Students have free choice of doctor, and advice on this matter can be obtained at the time of registration from the Secretary of the Student Health Service, or from the Clerk, the Leeds Executive Council of the National Health Service, 7 Boar Lane, Leeds 1. Students may, if they wish, register with the University Medical Officers, and they will need to produce their National Health Service medical cards for this purpose.

Students who register with a Leeds doctor will be expected normally to obtain their treatment from that doctor.

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, tetanus 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.

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 C. G. Sandys, Royal Signals

Adjutant: Capt. H. O. Parker, 3rd East Anglian Regiment

W.R.A.C. Officer: Vacant.

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 main aims of the appointments board are to help students and graduates to obtain suitable employment and to give information and advice about posts in the professions (including teaching), the Civil Service, industry and commerce. Students who wish to use the services of the board to obtain permanent posts should register with the board and arrange an interview with the secretary or with one of the assistant secretaries, 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 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 the board's office, 38 University Road, Leeds 2.

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, senior 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 *Commonwealth Universities Yearbook* 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 19s. 0d. 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
Department of Colour Chemistry and Dyeing
Department of Leather Industries
Agriculture

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, 1957-8, 1958-9 and 1959-60 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 44,911 volumes and pamphlets, 1,152 manuscripts, 4,106 deeds and 34,522 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, 252 incunabula, a large number of other early printed books, the four Folios of Shakespeare, some hundreds of Civil War and other seventeenth-century political pamphlets, and numerous seventeenth- and eighteenth-century plays and poems. Lord Brotherton acquired the early printed books collected by Lord Howard de Walden with their elaborate modern bindings. The strongest section of the Collection is in nineteenth-century English literature, especially in such authors as the Brontës, Browning, Byron, Cobbett, William Morris, Sir Walter Scott, Shelley, Swinburne and Tennyson. The letters include the whole of the correspondence of Sir Edmund Gosse from such persons as Lord Haldane, Thomas Hardy, Henry James, Lord Balfour, Austin Dobson, Oliver Wendell Holmes, and very many others. The Bram Stoker letters also number many

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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 Mitresey 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.

THE LIBRARY

It is closed from 23 December at 5 p.m. up to and including 30 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.

THE LIBRARY

(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 24 to 30 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 Librarian may withhold or restrict the circulation of any book in the library. He is further permitted to grant special facilities during a limited period to any person entitled to the use of the library.

(c) Reference books, volumes on the recent accessions shelves and unbound numbers of periodicals may be borrowed only after 4 p.m. [12 noon on Saturday] and must be returned before 10 a.m. on the next day on which the library is open. 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 12.30 p.m.

It is closed from 24 to 30 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. 6d. 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

REGULATIONS

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. to 12 noon and from 2 p.m. to 5 p.m. on the following conditions:

- (a) Notice should be given to the Curator in writing, preferably at least a week before the proposed visit, stating the class of coins that the visitor wishes to see.
- (b) The Curator, or in his absence a member of the library staff, will be present whenever coins are being studied.
- (c) No coins may be moved from the Coin Room.

THE LIBRARY

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.

UNIVERSITY MUSEUM OF THE HISTORY OF EDUCATION

23 Cavendish Road, Leeds 2

Reader in the Sources of English Educational History and Curator:

W. E. Tate, B.Litt., F.S.A., F.R.Hist.S. Telephone: Leeds 31751, exts. 190
(29, 353)

Home address: 23 Cliff Road Gardens, Leeds 6. Telephone: Leeds 53349.

The Museum was established in 1950 and formally recognised by the University in 1958. It contains the only collection quite of its kind in the country. Its first aim is to document and illustrate the history of education in England generally (but especially in Yorkshire and the North) from the earliest times to the present day. It tries also to act as a centre of research and publication on its subject, and to help and advise persons interested in it, and working on it, whether or not they are members of this or any other University. It is a member of the Museums Association and it is recognised by the British Records Association for the deposit of original quasi-archival material bearing upon its special interests. It is open to junior and senior members of the University and its associated colleges, to serving teachers in the area, to members and officers of local education authorities and to members of the general public

REGULATIONS

who are seriously interested in educational matters. The Curator is generally on the premises each morning in term and he can usually arrange to be there at other times, in or out of term, by appointment.

Most of the Museum's contents (except original archives) are available for loan to responsible persons concerned with the organization of local 'Education Weeks', school 'Open Days', etc. There is no charge for admission to the Museum or in connexion with any services it may render. Persons borrowing any of its contents are expected however to make their own arrangements for transport and the safe return of any loans, and to ensure their safety while they are off the Museum premises.

The Museum owes many of the most interesting items in the collections to the goodwill and generosity of friends in and outside the University, who have deposited them as long-term loans or as outright gifts. The Curator will be most happy to accept further gifts and loans of pictorial, printed and written material suitable for inclusion in the collections. He seeks such objects as needlework samplers (especially of course any noted as worked in Yorkshire schools), old completed school exercise books, ancient school textbooks on any of the curricular subjects, obsolete teaching aids and school apparatus. He welcomes particularly engravings, photographs and other illustrations of school buildings of historical interest, and portraits of school benefactors, of distinguished local schoolmasters, or of persons of eminence, who have as children been pupils in Yorkshire schools.

The Museum is not a local record office, recognized as such by the Master of the Rolls, so it does not normally seek to gather archival material. (The Curator will be very happy to advise on the deposit of any of this in one of the local record offices.) It is very glad however, to learn of the existence of such matter bearing on its subject, and, given the necessary permission, to have photostatic or microfilm copies made of it. The lender is, of course, always asked to accept with the University's compliments copies of any prints taken. By courtesy of the University Photographer, special arrangements have been made so that such material shall not lose its 'record' value by being taken temporarily out of the hands of its owner or custodian. It is possible for him by appointment to bring it to the University, to remain while the photographs are being taken and to have it returned to him immediately, the prints being made later at the Photographer's convenience.

The Curator will be very glad to answer inquiries, to welcome visitors, to accept gifts or loans, and to give or to receive information bearing on his special field of interest.

F E E S

The fees shown on the following pages are those payable in the session 1961-2. They are expected to be revised and increased for the commencement of session 1962-3. New fees if introduced will be payable by all persons pursuing courses of study during and after the session which begins in October, 1962.

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 registration certificate entitling the student to attend such courses. This certificate must be presented by the student on request, to the professors or lecturers whose classes or lectures he is authorised to attend.

Students who, for any reason, cease to attend the University during a session have no claim to a refund of fees. Where fees are being paid in instalments (Table 2, page 264) 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 257-63.

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 264.

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 overleaf 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 265.

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 266.

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 267.

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 268.

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 269.

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 270.

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 272.

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>Postgraduate diploma in English as a second language</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>	
Students who have paid three inclusive academic fees	47
Others	57
<i>Postgraduate diploma in industrial management</i>	67

*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.

FEEES

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 (two terms)	30§
Part 2 (four terms)	50§
Part 2 (candidates proceeding to external examinations)	40§
<i>Diploma in dental surgery</i>	67
<i>Diploma in nursing</i>	28§
<i>Nurse teacher's certificate</i>	55§
<i>Health visitor's 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.

FEES

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, Commerce or Laws</i>				
First- and second-year courses	1	10	0	per subject
Final—whole examination or part thereof	3	0	0	„ „
<i>Bachelor of Science</i>				
First- and second-year courses	1	10	0	per subject
Final or principal courses	3	0	0	„ „
<i>Bachelor of Science in special studies in mathematics or geography</i>				
First- and second-year courses	1	10	0	per subject
Final—whole examination or part thereof	3	0	0	„ „
<i>Bachelor of Medicine and Bachelor of Surgery</i>				
First examination	1	10	0	per subject
Second, third and 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	per subject
Second and third examination	2	0	0	„ „
Final examination	3	0	0	„ „
<i>Master of Surgery and 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	0	„ textile
				paper
	1	10	0	„ ancillary
				subject
<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 and nurse teacher's certificate</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

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

FEES

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.

FEES

TABLE 6

FEES 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

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, a separate charge being payable for each department	2	10	0
2.	By students in the School of Dentistry, for use of dental microscope			
	in the second year	1	0	0
	in the fifth year	1	10	0
3.	By students working in the laboratories of the school of chemistry, for rental of apparatus, per session	1	0	0
4.	By overseas students working in the department of textile industries, for equipment and apparatus, per session	15	0	0
5.	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
6.	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
7.	By students reading for the degree of Bachelor of Laws, for hire of books, per session	2	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

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11. For locker rent, per session
- (a) In the Faculty of Medicine a charge of £2 is payable at the beginning of the first or second year of the course. The balance after deducting the rent of 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.
 - (b) In faculties other than the Faculty of Medicine, no locker deposit is required but students must provide their own padlock and key for their locker.
 - (c) On the lower ground floor of University House, a deposit of 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.
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 and Lyddon Halls, inclusive of lunches	57	57	57	171
Sadler and Bodington Halls, exclusive of lunches				
Monday to Friday	51.6	52	52	155.6

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. 263.

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	48	48	144.6
Shared study-bedroom (exclusive of lunches Monday to Friday)	46.6	46	46	138.6

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 42	36 to 46	105 to 134

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	41.19.6	123.13.0

For residence in *Croft Hall*, see p. 263.

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.

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

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 page 286.]

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.)

DEGREES

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 286-8).

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 286-8).

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 history
Economics and politics
Economics and sociology
English and fine art
English and history
English and music
English and Spanish
Fine art and music
Fine art and philosophy

Geography and history
Geography and politics
Geography and sociology
Italian and music
Mathematics and philosophy
Philosophy and English literature
Philosophy and subsidiary French
Philosophy and history
Philosophy and politics
Psychology and sociology
Sociology and philosophy

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

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
- Fine art
- Economics
- Economics with statistics
- Political studies
- Sociology
- Mathematics
- Textile design
- Textile management

[See also the regulations on pages 286 and 288.]

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; but see Bachelor of Science.

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 289.]

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 289

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 290.]

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.

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, except in the case of mathematics, 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.

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, except in the case of mathematics, 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.

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, except in the case of mathematics, 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 30 January. Candidates proceeding by dissertation must send in their dissertations not later than 1 May. Candidates who present a dissertation should provide at least two copies of it.]

[See also the regulations on page 290.]

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 who are not graduates, and applicants who have not obtained a Graduate Certificate in Education or its equivalent, shall present themselves for examination—written and, if necessary, oral; such applicants will be permitted to enter the

University and to become candidates for the degree of Master of Education only if they have obtained a satisfactory result in the examination; and if they are not graduates, they will also be required to fulfil the following conditions:

- (a) To be registered as 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 or 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 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 293.]

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 294.]

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 294.]

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-

DOCTOR OF MUSIC

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 295.]

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 296.]

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:

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

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

†May be taken without previous study of the subject.

‡May be taken for one year only.

GENERAL AND COMBINED STUDIES

- (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 of religion	—	Biblical studies
Economics	—	Industrial relations

- (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 307 and fol.]

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)

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

DEGREE REGULATIONS

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 346.

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, except in the case of mathematics, 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

DEGREE REGULATIONS

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

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

English as a second language

The graduate certificate in education

educational studies.

Detailed regulations governing courses of study and examination requirements for the postgraduate diploma in industrial management and the postgraduate diploma in social studies will be found on pages 400 and 401, for the diploma in the history and philosophy of science on page 462, and for the remainder of the above qualifications on page 351 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

In the first year candidates take four subjects. After successful completion of the first year of study candidates either continue in the general studies scheme, reading three subjects (see regulation 8, page 287) or apply to take one of the combined studies schemes, reading two subjects. (Under certain conditions transfer to special studies may be allowed at this stage.)

ENGLISH AND FINE ART

Two schemes are offered for combined studies in English and fine art. Details of the final examination for each scheme are listed below :

SCHEME A

1. Shakespeare and Elizabethan drama
2. English poetry: Elizabethan period to the present day
3. English prose and novel: Elizabethan period to the present day
4. *Either* Milton
 or Another special author
 or Criticism
5. History of painting and sculpture—Paper I
6. History of painting and sculpture—Paper II
7. History of architecture
8. Art criticism
9. Oral examination (fine art)
10. Candidates will be required to submit not later than 1 May an essay of 8,000 to 10,000 words on a subject which may relate to English or to fine art or to some topic combining both these subjects. The title should be submitted to the heads of the combined studies school for approval at the beginning of the third year of the course.

SCHEME B

1. History of the English language
2. Middle English literature
3. English literature: Shakespeare to Dryden
4. English literature: Pope to Byron
5. History of painting and sculpture—Paper I
6. History of painting and sculpture—Paper II
7. History of architecture
8. Art criticism
9. Oral examination (fine art)
10. Candidates will be required to submit not later than 1 May an essay of 8,000 to 10,000 words on a subject which may relate to English or to fine art or to some topic combining both these subjects. The title should be submitted to the heads of the combined studies school for approval at the beginning of the third year of the course.

ENGLISH AND HISTORY

The final examination will consist of eight papers and an essay, as follows:

SCHEME A

1. Shakespeare and Elizabethan drama
2. Poetry: Elizabethan period to the present day
3. Prose and the novel: Elizabethan period to the present day
4. American literature from Emerson to the present day
5. History of Britain from 1399 to 1688
6. History of Britain from 1688
7. History of the United States of America from 1783
8. *One of the following:*
 - History of political thought
 - History of scientific thought
 - History of Europe, 1648 to 1789
 - France and Europe, 1789 to 1870
9. An essay of 8,000 to 10,000 words on a subject relating to one of the candidate's prescribed fields of study, and chosen with the advice of the department concerned.

SCHEME B

1. History of the English language
2. Middle English literature
3. English literature: Shakespeare to Dryden
4. English literature: Pope to Byron
5. History of Britain from earliest times to 1399
6. History of Britain from 1399 to 1688
7. History of Britain from 1688
8. *One of the following:*
 - History of political thought
 - The development of medieval government
 - The Church in the later Middle Ages
 - The history of Europe, 1648 to 1789
9. An essay of 8,000 to 10,000 words on a subject relating to one of the candidate's prescribed fields of study, and chosen with the advice of the department concerned.

ENGLISH AND MUSIC

Two schemes are offered for combined studies in English and music. Details of the final examination for each scheme are listed below:

SCHEME A

- Shakespeare and Elizabethan drama
- English poetry: Elizabethan period to the present day
- English prose and novel: Elizabethan period to the present day

ENGLISH AND MUSIC

Either Milton

or Another special author

or Criticism

History of music since 1880

Harmony and counterpoint

Special subject (music)

Acoustics*

Practical and oral examinations in music

Candidates will be required to submit not later than 1 May an essay of 8,000 to 10,000 words on a subject which may relate to English literature or to music or to some topic combining both these subjects. The title should be submitted to the heads of the combined studies school for approval at the beginning of the third year of the course.

SCHEME B

History of the English language

Middle English literature

English literature: Shakespeare to Dryden

English literature: Pope to Byron

History of music since 1880

Harmony and counterpoint

Special subject (music)

Acoustics*

Practical and oral examinations in music

Candidates will be required to submit not later than 1 May an essay of 8,000 to 10,000 words on a subject which may relate to English literature or to music or to some topic combining both these subjects. The title should be submitted to the heads of the combined studies school for approval at the beginning of the third year of the course.

ENGLISH AND SPANISH

Candidates shall normally be required before entering upon the first year of study to have reached a suitable standard in Spanish at the Advanced level in a General Certificate of Education or equivalent examination.

Candidates will 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.

The final examination will consist of nine papers, as follows:

SCHEME A

1. Shakespeare and Elizabethan drama

2. English poetry: Elizabethan period to the present day

3. English prose and novel: Elizabethan period to the present day

4. *Either* Milton

or Another special author (English)

or Criticism (English)

*This course is given in alternate years and candidates will take the examination at the end of the year in which they attend the course.

B.A. IN COMBINED STUDIES

5. Translation into Spanish
6. Translation from Spanish and essay (Spanish)
7. Golden Age literature (Spanish)
8. Twentieth-century Spanish and Spanish-American literature
9. Special subject (modern Spanish literature)

In addition, candidates will be required to present by 1 May in their final year an essay (in English, about 8,000 words) on an approved topic within the field of English or Spanish, or combining both subjects; and will be required to present themselves for an oral examination in Spanish.

SCHEME B

1. History of the English language
2. Middle English literature
3. English literature: Shakespeare to Dryden
4. English literature: Pope to Byron
5. Translation into Spanish
6. Translation from Spanish and essay (Spanish)
7. Golden Age literature (Spanish)
8. Twentieth-century Spanish and Spanish-American literature
9. Special subject (modern Spanish literature)

In addition, candidates will be required to present by 1 May in their final year an essay (in English, about 8,000 words) on an approved topic within the field of English or Spanish, or combining both subjects; and will be required to present themselves for an oral examination in Spanish.

FINE ART AND MUSIC

The final examination for the degree in fine art and music will consist of the following:

- History of painting and sculpture (2 papers)
- History of architecture (1 paper)
- History of ideas and institutions connected with the arts (1 paper)
- History of music since 1880 (1 paper)
- Harmony and Counterpoint (2 papers)
- Special subject (music) (1 paper)
- Acoustics*
- Practical and oral examinations in music

In addition candidates will be required to submit, not later than 1 May, an essay of about 8,000 words on a subject which may relate to music or to fine art or to some topic combining these subjects. The title should be submitted to the heads of the combined studies school for approval at the beginning of the third year of the course.

FINE ART AND PHILOSOPHY

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

*This course is given in alternate years and candidates will take the examination at the end of the year in which they attend the course.

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 medieval *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 medieval 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~~ 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)
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.

*With the approval of the heads of the departments concerned, the special subject may be examined by dissertation.

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

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

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.

ITALIAN AND MUSIC

The final examination for the degree in Italian and music will consist of the following:

Italian

- Translation and composition (1 paper)
- Essay in Italian (1 paper)
- Italian civilization (1 paper)
- Literature† (2 papers)
- Special subject in Italian (1 paper)
- Oral examination in Italian

Music

- History of music since 1880 (1 paper)
- Harmony and Counterpoint (2 papers)
- Special subject (music) (1 paper)
- Acoustics‡ (1 paper)
- Practical and oral examinations in music.

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

†The periods of literature and drama to be examined will be (a) 960-1400 and (b) normally *either* 1400-1595 *or* 1700 to the present day.

‡This course is given in alternate years and candidates will take the examination at the end of the year in which they attend the course.

In addition candidates will be required to submit, not later than 1 May, an essay of about 8,000 words on a subject which may relate to Italian or to music or to some topic combining both these subjects. The title should be submitted to the heads of the combined studies school for approval at the beginning of the third year of the course.

Candidates 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.

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 medieval *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

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.

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 medieval *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. Political and social philosophy *or* History of scientific thought
6. Philosophy of history *or* a special subject approved by the heads of the departments of philosophy and 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.

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, and a pass in general studies at ordinary level; and should be able to produce some evidence of acquaintance with a modern language, preferably German, and knowledge of mathematics.

The scheme of study and examination 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

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 acceptance into the special studies school of Latin, candidates should normally have attained a pass at a high standard in Latin at the advanced level in the General Certificate of Education examination, or the equivalent.

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)

LATIN

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 acceptance into the special studies school of classics (alternative 1) candidates should normally have attained a pass at a high standard in Greek and Latin at the advanced level in the General Certificate of Education examination, or the equivalent. Suitable candidates who have attained a high standard in Latin but not in Greek may be considered for admission to the alternative degree scheme in classics (alternative 2).

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 and Latin.

Greek or Latin 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 acceptance into the special studies school of Latin with Greek, candidates should normally have attained a pass at a high standard in Latin at the advanced level in the General Certificate of Education examination, or the equivalent.

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

For the degree of Bachelor of Arts in special studies in Semitic languages and literatures, there will be two schemes of study—scheme A and scheme B.

For admission to scheme A, candidates must normally have obtained an approved qualification in Hebrew, such as a pass at the Ordinary level of the General Certificate of Education examination. Candidates with no such qualification may be required to attend, before admission to the three-year special studies scheme, the first year of the part-time course for the diploma in Hebrew and to pass the appropriate examination at the end of the session.

For admission to scheme B, candidates must normally have obtained approved qualifications in Hebrew and Arabic, such as passes at the Ordinary level of the General Certificate of Education examination. Candidates with no such qualifications may be required to attend, before admission to the three-year full-time special studies scheme, the first year of the part-time courses for the diploma in Hebrew and the certificate in Arabic and to pass the appropriate examinations at the end of the session.

SCHEMES A AND B

Hebrew and *either* Aramaic-Syriac *or* Arabic are studied concurrently throughout the course, Aramaic-Syriac *or* Arabic being the main supporting languages.

The scheme of study for the first academic year shall include the following four subjects:

1. Hebrew language and literature
2. *Either* Eastern and Western Aramaic *or* Arabic language and literature
- 3, 4. Two other approved subjects, which would normally be subjects taken outside the department of Semitic languages and literatures.

A qualifying examination in all these subjects must normally be passed at the end of the first year of study by candidates before they proceed to further study.

In addition, 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.

During the second and third years candidates will pursue the following courses of study:

1. Hebrew language and literature, including biblical history and archaeology; critical introduction to the literature of the Old Testament; the growth of religious ideas and institutions in the Bible; the inter-testamental period and New Testament background, studied in connection with post-biblical and rabbinic texts; mishnaic and medieval Hebrew; modern Hebrew language and literature.
2. Further study of *either* Aramaic (including Syriac) *or* Arabic

3. A special subject (studied in the third year only) normally selected, with the approval of the head of the department from the following list:

- (a) Advanced Syriac*
- (b) Advanced medieval Hebrew
- (c) Advanced Arabic*
- (d) Old Testament Greek and papyri†
- (e) Palestinian archaeology
- (f) Comparative Semitic philology and epigraphy.

In addition to the above subjects, candidates will be required, during the second and third years of the scheme of study, to pursue a prescribed course and to pass the necessary examinations in the following:

SCHEME A

One of the two outside subjects studied in the first year.

SCHEME B

either Aramaic-Syriac (3 papers) in the case of candidates who have chosen Arabic under 2 above

or Arabic (3 papers) in the case of candidates who have chosen Aramaic (including Syriac) under 2 above.

Candidates 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 following papers shall be obligatory for students following both scheme A and scheme B:

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

Either specified and unspecified texts of Aramaic, including Syriac (3 papers)
or specified and unspecified texts of Arabic (3 papers)

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

Comparative grammar of the Semitic languages, and questions on the special subject studied in the third year, as in 3(a) to (f) above (1 paper)

Specified and unspecified modern Hebrew texts:

Poetical texts and general literature questions (1 paper)

Prose texts and composition (1 paper).

*This subject is not available to candidates who have taken this language for one year only as an approved language in their first year.

†Candidates choosing this option must normally have taken Greek in their first year as one of the approved subjects.

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 364 and 366.

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

1. In the department of English literature:	Hours
The novel or the drama	1
Period	1
Prose	1
Criticism	1
Poetry	1
Tutorial class	1
2. In the department of English language and medieval literature:	
Chaucer (in alternate years)	1
either (a1) Old English literature	1
Middle English literature	1
or (a2) Middle English literature	2
History of English	1
Tutorial class	1

Third year

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

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, general linguistics and comparative philology, linguistics; 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, 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.

B.A. IN SPECIAL STUDIES

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

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 <i>or</i> 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 <i>or</i> the drama	I
Milton	I
Poetry	I
Criticism	I
American literature <i>or</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

1. Shakespeare
2. The novel *or* the drama
3. Criticism
4. Poetry
5. Essay on the selected author
6. Old English or history of English
7. Middle English texts
8. Chaucer and the fifteenth century

Scheme C

1. Shakespeare
2. The novel *or* the drama
3. Criticism
4. Poetry
5. American literature *or* selected author
6. Chaucer and Middle English literature
A dissertation on some aspect of Milton or another author must also be written.

Candidates will also be examined orally.

Candidates taking schemes A or C may also submit an original piece of work, either creative or academic, to be taken into consideration when their class is assessed.

The special author in the session 1961-2 will be Ibsen.

The selected texts for the Old English paper in part 2 in June 1963 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 1963 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 1963]: 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
 - English palaeography and bibliography
 - Phonetics
 - Anglo-Saxon art and archaeology
 - Medieval Welsh
 - The structure of present-day English
 - General linguistics and comparative philology
 - Linguistics
 - 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. Poetry (1 paper)
- Candidates will also be examined orally.

Texts for 1961-2

The selected texts for the Old English paper in June 1962 will be as for Scheme A.

The selected texts for the Middle English paper in June 1962 will be as for Scheme A, with the addition of *Early Middle English Texts* (ed. Dickens 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. Sedgfield); *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 1962): 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

For acceptance into the special studies school of French language and literature, candidates should normally have attained a pass at a high standard in French at the advanced level in the General Certificate of Education examination, or the equivalent: they must also have attained a pass in Latin at the ordinary level in the General Certificate of Education examination, or the 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
 - Seventeenth-century literature
 - Eighteenth-century novel
 - Eighteenth-century thought
 - Twentieth-century novel
 - Twentieth-century drama
 - History of French vocabulary and Semantics

*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.

Third year

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

*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.

The third term of the second year will normally be spent at a university abroad, the choice of university to be subject to the approval of the head of the department in consultation with the head of the department in which the subsidiary subject is taken. The cost of residence abroad is not included in the normal fee for an arts course.

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

For acceptance into the special studies school of French and Latin languages and literatures, candidates should normally have attained a pass at a high standard in Latin and French at the advanced level in the General Certificate of Education examination, or the equivalent.

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 329 and 331].

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 107-8].

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 a university abroad, the choice of university to be subject to the approval of the head of the department, in consultation with the head of the department in which the subsidiary subject is taken. 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).

SPANISH

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.

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 acceptance into the special studies school of German language and literature, candidates should normally have attained a pass at a high standard in German at the advanced level in a General Certificate of Education examination, or the equivalent. The scheme of study will be:

First year

1. German language and literature

GERMAN

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)

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.

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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 Dostoyevsky)

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.

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

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 signalised 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.

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 and 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) Seventeenth-century literature
 - (d) Eighteenth-century novel
 - (e) Eighteenth-century thought
 - (f) Twentieth-century novel
 - (g) Twentieth-century drama
 - (h) History of French vocabulary and Semantics

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

*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.

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
 - (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.

*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.

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 will be considered for the three-year scheme if they have obtained at least a pass at Ordinary level in Russian in the General Certificate of Education examination or reached an equivalent standard. Other candidates 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 Dostoyevsky.

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, Tragedy in the Golden Age, Larra and "el tema de nuestro tiempo".

English, schemes A and C

See special studies in English, pages 314 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)

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

HISTORY

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) The king's dominions overseas, 1259-1369
- (e) The English Church in the fourteenth century
- (f) Politics, government and society in Elizabethan England
- (g) The Puritan Revolution
- (h) Scientific and technical change in England, 1750-1830
- (i) The French Revolution
- (j) The Age of Peel

6. A dissertation

7. General history (1 paper).

Candidates may, with permission, offer one additional paper from (3) in place of (6).

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

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

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 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)

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

GEOGRAPHY

Two of the following:

- | | |
|---|----------------|
| Cartography | } 1 paper each |
| Historical geography of Britain | |
| Geography of planning | |
| Problems of economic geography | |
| Problems of political geography | |
| Problems of geomorphology | |
| Problems of the geography of population | |

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 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 15 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
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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.

BIBLICAL STUDIES

- Second year New Testament language and literature 1
 or 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
 or 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.

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.

FINE ART

It is desirable that candidates for admission to the course leading to the degree of Bachelor of Arts in special studies in fine art should in the examination for the General Certificate of Education have obtained a pass in a modern foreign language at Advanced level; previous study of art in preparation for this examination at Advanced level is not essential.

The scheme of study will be:

First year

1. Fine art including:
 - *(a) An outline study of the history of art and architecture from the earliest times until the present day (2 lectures a week)
 - *(b) The elements of art criticism (1 lecture a week)
 - (c) Practical work as prescribed by the head of the department
- 2, 3. Two approved subjects in the Faculty of Arts, one of which may with advantage be a language other than English; both must be selected from a list of subjects which, taken in conjunction with fine art, would enable the candidate if necessary, to satisfy the requirements of the degree of Bachelor of Arts in general studies.†

Second year

- *1. History of painting and sculpture: the Renaissance in Italy and the North (2 lectures a week)
- *2. History and appreciation of architecture (1 lecture a week)
- *3. History of fashion (1 lecture a week)
4. Practical art criticism (1 lecture a week)
5. Practical work as prescribed by the head of the department
6. A course in a subject approved by the head of the department; this will normally be the first year of the two-year general course in one of the approved subjects taken in the first year.

In the long vacation at the end of the second year, candidates may also, at the discretion and under the direction of the head of the department of fine art, be required to spend not less than six weeks in London studying original works of art; and to submit satisfactory evidence of the thoroughness of this study.

*These courses form the course in fine art for the degree of Bachelor of Arts in general studies, and fine art as a subsidiary subject for a first degree.

†Under present regulations, the other approved subjects must be chosen from the following list: English, history, geography, two languages other than English (provided that Greek and Latin may not be taken together).

Third year

- *1. History of painting, sculpture and architecture from the High Renaissance to the present day (3 lectures a week)
- 2. Practical work as prescribed by the head of the department
- 3. A course in a subject approved by the head of the department: this will normally be the second year of the two-year general course in the approved subject taken in the previous year.

In the long vacation at the end of the third year, candidates may also, at the discretion and under the direction of the head of the department of fine art, be required to spend not less than six weeks studying original works of art at an approved centre abroad; and to submit satisfactory evidence of the thoroughness of this study.

Fourth year

- 1. Practical work as prescribed by the head of the department
- 2. A historical study of the theory and teaching of art (1 lecture or tutorial a week).

EXAMINATIONS

First year

A qualifying examination will be held at the end of the first year, and candidates will be advised on their subsequent courses of study on the basis of their performance therein.

- *1. The history of art and architecture in Western Europe (1 paper)
- *2. The elements of art criticism (1 paper)
- *3. Oral examination
- 4. Practical test (3 hours). In addition candidates will be required to submit a portfolio representing the year's work.
- 5, 6. Two approved subjects.

Third year

Part I of the final examination, which will relate to the syllabus covered in the second and third years, will be taken at the end of the third year.

- *1. The history of painting and sculpture (2 papers)
- *2. The history of architecture (1 paper)
- 3. An essay on an approved topic
- 4. Candidates will also be required to submit for examination examples of practical work done during the year
- *5. Oral examination.

Fourth year

Part II of the final examination will be taken at the end of the fourth year.

- 1. The theory and teaching of art (1 paper)
- 2. An examination of practical work carried out during the period of the course
- 3. A dissertation on a theme approved by the head of the department.

In addition, candidates must present themselves for examination in the approved subject, as for a two-year course in a subject for the degree of Bachelor of Arts in general studies. The results of the Part I examination will be taken into account in the final assessment of the student's work.

*These courses form the course in fine art for the degree of Bachelor of Arts in general studies and fine art as a subsidiary subject for a first degree.

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 another subject, not mathematics or statistics, selected after consultation with the head of the department of mathematics from those approved under regulation 6 for the degree of Bachelor of Arts in general studies (see p. 286), and studied for one year. Candidates will be required to satisfy the examiners in statistics and in the other subject.

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
 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

One of the following by arrangement with the head of the department concerned:

Economic history or Industrial management II
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
Fibre science
Dyeing 1T
Cloth finishing 1 and 2
Mill management
Principles of pattern design

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 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

TEXTILE 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 396-9.

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.

PREScribed EXAMINATIONS

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.

MASTER OF ARTS

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

- 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.

MASTER OF ARTS

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 development
 - 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. Three papers, one of which will be on the general field of study, and two on special subjects: one of the latter will be related to the subject of the candidate's dissertation
2. A dissertation on a subject approved by the Board of the Faculties of Arts
Economic and Social Studies and Law
3. An oral examination.

POLITICS

1. Three papers, one of which will be on the general field of study, and two on special subjects: one of the latter will be related to the subject of the candidate's dissertation
2. A dissertation on a subject approved by the Board of the Faculties of Arts,
Economic and Social Studies and Law
3. 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 year: elementary biblical Hebrew, grammar including syntax, composition, re-translation and pointing of prescribed portions, translation of prescribed prose passages of Old Testament and post-biblical Hebrew; introduction to Jewish literature; outline of Jewish history to A.D. 130.

Second year: prescribed poetical passages from the Old Testament; prescribed books of modern Hebrew; comparative Hebrew grammar and syntax; modern Hebrew; outline of Jewish history from A.D. 130 and of the development of Jewish religious ideas and institutions.

EXAMINATION

Part 1 of the examination will be held at the end of the first year and part 2 at the end of the second year of the course. Candidates exempted as above from a portion of the course may be required to present themselves for parts 1 and 2 of the examination in the same year. Each examination will consist of two papers.

The diploma will be awarded to candidates who have completed the requisite period of study and have passed both parts of the examination.

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 teacher's 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 224).

ARABIC

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 1961-62:

The Qur'an

As-Suyuti: 'Itqan

Al-Mas'udi: Muruj al-Dhahab (selections)

Taha Husain: 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 scheme of study; 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. 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 1960 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 1960 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*.

THEOLOGY

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
 - Study of a particular genre
 - Shakespeare
 - Milton
 - Contemporary English literature*
 - American literature
 - Commonwealth literature
 - Contemporary English language
 - English phonetics
 - The teaching of English as a foreign language
 - Any other course (subject to the approval of the head of the department concerned).
- 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.

DIPLOMAS AND CERTIFICATES

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.

POSTGRADUATE DIPLOMA IN ENGLISH AS A SECOND LANGUAGE

All candidates must be graduates of the University of Leeds or of another approved university or must possess equivalent qualifications approved by the Senate.

Candidates will be required to attend the University of Leeds for at least one year of full-time study. By permission of the head of the department of English literature, or the head of the department of English language and medieval English literature, or the professor of contemporary English, 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. Contemporary English language

B. Such of the following courses as may be prescribed by the professor of contemporary English:

Contemporary English literature

Stylistics

General course in education

English overseas

Second-language teaching

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 and medieval English literature, or the professor of contemporary English.

Two periods of teaching practice will be arranged during the year, at least one of which will normally take place in a country where English is not the mother tongue.

Note: The courses in B will normally be covered in one year and generally not less than three 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.

The examination will consist of 4 written papers, an oral examination and the written exercise in research. The candidate's performance in teaching practice will also be taken into account.

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.

GRADUATE CERTIFICATE IN EDUCATIONAL STUDIES

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.

GREEK

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 times 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*.

Courses in Greek history will be given in the department of Greek; for details see under History, p. 378

COURSES

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
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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.

LATIN

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.

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 and/or Arabic language and literature, history and institutions, ancient and modern

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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 day 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.

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 LITERATURE

ENGLISH S 1 (schemes A and C, see pages 314 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 and C)

Second year (2nd and 3rd years for scheme B candidates); Thursday, 2 to 3.
A special period of literature. The period for 1961-2 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 1961-2 will be Ibsen.

ENGLISH S 9 (scheme C)

Third year; at times to be arranged.

American literature.

Examination: 1 paper.

ENGLISH S 10 (scheme C)

Second year; Thursday, 11 to 12.

A study of Milton and his time.

Examination: 1 paper.

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ENGLISH S 11 (scheme C)

Second year; Monday, 11 to 12.

A series of lectures on general literary subjects.

ENGLISH S 12 (schemes A and C)

Second year; Tuesday, 12 to 1.

The development of prose style.

Examination: 1 paper.

ENGLISH S 13 (scheme C)

Second year; Tuesday or Friday, 4 to 5

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, and the structure of English.

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 314 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.

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 year; Wednesday, 11 to 12.

Chaucer.

Examination: 1 paper.

This course is given in alternate years. It will be given in the session 1962-3.

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.

COURSES

ENGLISH S 28 (scheme B)

Second and 3rd years; 1 hour a week at times to be arranged.

English dialectology.

Examination by thesis.

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; 2 hours a week at times to be arranged.

The structure of present-day English.

Examination: 1 paper.

ENGLISH S 36 (Scheme B)

Second and 3rd years: 2 hours a week at times to be arranged.

General linguistics and comparative philology.

Examination: 1 paper.

ENGLISH S 37 (Scheme B)

Second and 3rd years: 2 hours a week at times to be arranged.

Linguistics.

Examination: 1 paper.

ENGLISH LANGUAGE

ENGLISH S 38 (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, and practical work.

The mechanism of utterance; classification of speech sounds; phonetic theory; the phonetics of English; ear training and gramophone listening; linguistics.

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 and Thursday, 3 to 4; 3rd year, Monday and Friday, 11 to 12; and practical work.

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 (1½ hours) and a practical examination including phonetic dictation.

COURSES

THE PHONETICS OF ITALIAN

[4]

First year special and second year general; Thursday, 4 to 5; 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 (1½ 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 (1½ 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; Tuesday 4 to 5; and practical work.

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; Wednesday 11 to 12.

PHONETICS

Introduction to linguistic analysis; advanced phonetics of modern French; comparison of the phonetic structure of English and French; the mechanism of sound changes in modern French; detailed work on the student's own 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.

COURSES

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, 17th-century literature, 18th-century novel, 18th-century thought, 20th-century novel, 20th-century drama, 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. 321.

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.

SPANISH

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.

COURSES

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; Tragedy in the Golden Age; Larra and "el tema de nuestro tiempo", 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. 323.

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.

ITALIAN

[The period for examination in June, 1962, 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 tests 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, 1962, 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.

COURSES

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, 11 to 12, 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, 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.

GERMAN

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. 326.

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. 480.

RUSSIAN

For the degree of Bachelor of Arts in general studies

RUSSIAN; ONE-YEAR COURSE

First year; 4 hours a week at times to be arranged.

Grammar, reading and translation.

Examination: 1 paper and an oral examination.

RUSSIAN; TWO-YEAR COURSE

Second and 3rd years; 4 hours a week 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 1

First year; at times to be arranged.

Language, outlines of history.

Examination: 2 papers and an oral examination.

COURSES

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. 481.

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

HISTORY

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 334-5.

PHILOSOPHY

For the degrees of Bachelor of Arts in general, combined 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.

COURSES

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.
Advanced political theory.

PHILOSOPHY 15

Second and 3rd year; 1 hour a week at a time to be arranged.
Theory of criticism.

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 pages 414-15), and from the courses in general and social psychology given in the department of psychology (see page 474).

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 and 4

Second or 3rd year; 2 hours a week at times to be arranged.
Special topics in the history of scientific thought. The history of technology and the philosophy of science.

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 to 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]

Second year; Monday, 10 to 11.
Principles of political geography; study of selected politico-geographical problems.

BIOGEOGRAPHY

[4]

Third year; at times to be arranged.
World distribution of vegetation and soil types with particular reference to Britain.

HISTORICAL GEOGRAPHY OF BRITAIN

[5]

Third year; at times to be arranged.
Selected studies in the historical geography of 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.

PROBLEMS OF ECONOMIC GEOGRAPHY

[9]

To be arranged.

COURSES

- 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; at times to be arranged.
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 and Friday, 2 to 5.
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; Tuesday, 11 to 12.
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.
- HISTORICAL GEOGRAPHY OF EUROPE** [20]
Second year; Wednesday, 10 to 11.
Studies in the historical geography of Europe.

GEOGRAPHY

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 AFRICA [22]

Third year; Tuesday, 12 to 1.
Studies in the geography of selected areas of Africa.

GEOGRAPHY OF EUROPE [23]

Third year; at times to be arranged.
Studies in the geography of selected areas of Europe.

GEOGRAPHY OF NORTH AMERICA [24]

Third year; at times to be arranged.
Studies in the geography of selected areas of North America.

CARTOGRAPHY AND PRACTICAL WORK [25]

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 [26]

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 14 and 25. 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 15, 16 and 26.

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 18 and two of the courses 19, 21, 22, 23, 24.

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 5 to 11 in lieu of courses 19, 21, 22, 23, 24.

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.

COURSES

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 1961-2 is Hinduism.

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.

THEOLOGY

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 and 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; Wednesday, 10 to 11 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 1961-2 is the Incarnation and the Trinity.

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.

COURSES

MUSIC

For the degree of Bachelor of Arts in general and combined studies

GENERAL STUDIES 1

First year; at times to be arranged.

History of music from 900 to 1700; form and analysis in music; harmony and counterpoint; practical training.

Examination: 2 papers.

For the degree of Bachelor of Arts in special studies

MUSIC SS1

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

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

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.

FINE ART

For the degrees of Bachelor of Arts and Bachelor of Science in general studies

FINE ART; ONE-YEAR COURSE

First year; 3 lecture hours a week at times to be arranged.

An outline study of the history of art and architecture from the earliest times until the present day. The elements of art criticism.

Examination: 2 papers and short *viva voce* examination.

FINE ART; TWO-YEAR COURSE

Second year; 4 lecture hours a week. Third year; 3 lecture hours and one hour of approved study a week.

*This course is given in alternate years and candidates will take the examination at the end of the year in which they attend the course.

FINE ART

History of painting and sculpture; the Renaissance in Italy and the North, and from the High Renaissance to the present day. History of architecture. History of fashion.

Examination: 3 papers.

For the degree of Bachelor of Arts in special studies

FINE ART; ONE-YEAR COURSE

The scheme of study will be the same as that for students reading for the degree of Bachelor of Arts in general studies but in addition students will undertake practical work which will be examined by a test and by the submission of a portfolio representing a year's work.

FINE ART; THREE-YEAR COURSE

During the first two years of this course the scheme of study will be the same as that for students reading for the degree of Bachelor of Arts in general studies; but with the addition of practical art criticism (no examination) and practical work which will be examined at the end of the student's third year. During the last year of the course further practical work shall be undertaken and examined; there shall during this final year, be one lecture a week on the theory and teaching of art, examined by means of one three-hour paper.

The examinations at the end of the third year will constitute Part I of the final examination and the results of this will be taken into account in the final assessment of the student's work.

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

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 390.]

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 the field of 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 the field of 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 391.]

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 283 and 293.]

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:

- (a) Economics qualifying (3 papers)
- (b) For accountancy students—Accountancy qualifying (1 paper)
either Mathematics Introductory (2 papers)
or Philosophy (2 papers)
or Politics 1 (2 papers)
- (c) For technology students—
An approved technological subject
and two of:
An approved natural science
Mathematics Introductory (2 papers)
Industrial management 1A (2 papers)
- (d) For law students—
Politics I
Accountancy qualifying (1 paper)
English legal system and Principles of English law (2 papers)

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
- (j) Company law
- (k) Bankruptcy and partnership
- (l) Contract, negotiable instruments and sale of goods
- (m) A general law paper including agency, general principles and industrial law
- (n) Essay.

MASTER OF COMMERCE

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 the field of 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 geographical thought
 - Problems of the geography of population
 - Problems of economic geography
 - Problems of political geography
 - Geography of planning
6. English economic history, 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 since 1914, and the Great Powers since 1870)
8. Economic theory
9. and 10. Two special periods or topics in economic history, selected from the following:*
- (a) 17th 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 HISTORY

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

1. The history of Britain from earliest times to 1399
2. The history of Britain, 1399 to 1688
3. The history of Britain from 1688
4. Economic theory
5. *Either* Economics of industry and labour *or* Money and finance
6. English economic history 1066-1914
7. Recent economic history (England since 1914, and the Great Powers since 1870)
8. One of the following :
 - History of the United States of America from 1783
 - The history of Europe, 1648 to 1789
 - France and Europe, 1789 to 1870
9. A special period in history or economic history.

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 I
Politics II
Political and social theory

and *three* of the following:

Economic development
Theory and practice of trade unionism
Control of industry
British fiscal and monetary policy
The government of a special area

*These subjects may be varied from time to time.

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
Theory and practice of trade unionism
Economic aspects of industrial relations
Control of industry
Social psychology
Criminology
Demography
Social administration

For the schools of combined studies in geography and politics and geography and sociology, see under the Faculty of Arts, pp. 294, 295, 297 and 298.

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 I

*These subjects may be varied from time to time.

PHILOSOPHY AND POLITICS

4. Politics II
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 | Memory and learning |
| Criminology | Language and thinking |
| Demography | Personality and human development |
| Social medicine | Defect and abnormality |
| Sociology of religion | Philosophy and history of psychology. |

SOCIOLOGY AND PHILOSOPHY

The final examination in the combined school of sociology and philosophy will consist of nine papers as follows:

- Sociology (3 papers)
- Political and social theory
- Social psychology
- Ethics
- Logic and general philosophy
- Social structure of modern England *or* History of ancient and medieval philosophy *or* History of modern philosophy
- One further philosophical subject from among those offered for the degree of Bachelor of Arts in special studies in philosophy (*see* p. 335) 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 274 and 286. Regulations prescribing the examinations in economics, in sociology and in politics for the degree of Master of Arts will be found on page 350.

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:

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)

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

British fiscal and monetary policy

Theory of income distribution

Control of industry

Economic aspects of industrial relations

Theory and practice of trade unionism

The economic history of a special period.

*This paper is taken at the end of the second year.

†Not all of these topics will necessarily be offered in any one year. New topics may be added from time to time.

POLITICAL STUDIES

ECONOMICS WITH STATISTICS

Candidates for the degree of Bachelor of Arts in special studies in economics with statistics will be required to pursue courses of study and to submit themselves to a qualifying examination consisting 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)

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)

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.

POLITICAL STUDIES

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

First year

Politics

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 (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
3. Sociology
4. Philosophy *or* mathematics† *or* another approved subject.‡

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

*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.

§Not all these topics will necessarily be offered in any one year.

SOCIOLOGY

- Group (b) (i) Politics (2 papers)
and *one* of the following subjects:*
- (ii) The government of a country or countries to be prescribed from time to time
- (iii) International relations
- (iv) Jurisprudence
- (v) Political philosophy
- (vi) Political sociology
- (vii) Public finance
- (viii) Social administration
- (ix) Industrial relations
- Group (c) (i) Social anthropology (2 papers)
- (ii) The social anthropology of a selected region or a special subject
- Group (d) (i) Development of 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
- (viii) Social statistics

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.

THE POSTGRADUATE DIPLOMA IN INDUSTRIAL MANAGEMENT

Candidates must normally be graduates with Honours of an approved university and must have attained a sufficient standard in mathematics.*

Candidates may be required to pass a special qualifying examination.

Candidates will be required to attend the University of Leeds for one academic year of full-time study. The University reserves the right to suspend the scheme in any year if the entry of students is insufficient.

Candidates must attend the prescribed courses and field instruction satisfactorily and satisfy the examiners in the examinations and other tests and assignments prescribed. The diploma may be awarded with distinction when the work of a student is judged to be of outstanding merit.

Students will be required to undertake field projects in industry, and to write reports on them. In their reports, students will be able to specialize in Measurement and control, Industrial engineering, or Administration.

Before completion of the course candidates will be required to have adequate knowledge of the following subjects:

Economic principles

Economic organisation

Exceptionally, for those who have not previously studied them to an adequate level, instruction will be provided and attainment will be measured by periodic assignments and tests.

The scheme of study for the diploma will include:

Section A: Measurement and control

Statistical methods

Operations research

Elements of electronic computer operations

Management economics and management accounting.

Section B: Industrial engineering

Work study and associated techniques

The logic of problem-solving and decision-making

Production management and production methods.

Section C: Administration

Organization

Administrative behaviour.

Section D: Field project work

EXAMINATION

Statistical methods

Operations research and elements of electronic computer operation

Management economics and management accounting

Production management and production methods

Organization

Administrative behaviour.

*A pass in mathematics at Advanced Level in a G.C.E. examination or a pass in Auxiliary Mathematics is the minimum requirement for entry upon the course.

REGULATIONS PRESCRIBING SCHEMES OF STUDY FOR DIPLOMAS

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 studies or as a subsidiary subject are:

General economics (2)

Tutorials (which are compulsory) are held weekly.

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.

The recommended lecture courses in the subjects required in the first year of the schemes of study for the degree of Bachelor of Arts in special studies in economics are:

The structure and working of the economy (2)

Production, consumption and markets (2)

English economic history 1066-1914 (2)

and either

Politics (2)

or Philosophy (2)

or Sociology (2)

or Mathematics Introductory (4).

Students reading for the degree of Bachelor of Commerce are recommended to attend Structure and working of the economy (2) and Production, consumption and markets (2); those taking the degree with accountancy or law as a principal subject are required to attend Accountancy I (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:

<i>Accountancy</i>	<i>Technological subject</i>	<i>Law</i>
Philosophy or Politics I or Mathematics Introductory	*Prescribed courses in the technological subject and †Mathematics Introductory or An approved natural science or ‡ Industrial management I A	Politics I English legal system (I) and Principles of English law (2)

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 (I)

For all students:

Economic theory (2)

Second-year economics seminar (I)

Tutorials—fortnightly

Third year

For students who are to be examined in economic history:

Economic history of England

Outline of industry (I)

For students who are to be examined in Economics of industry and labour:

Economics of industry and labour (2)

Money and banking (I)

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; at the discretion of the head of the department of textile industries, Auxiliary mathematics may be substituted, in certain cases, for Mathematics Introductory. With other technological principal subjects, mathematics is normally compulsory.

‡Consisting of introduction to industrial management and elementary sampling statistics.

SCHEMES OF STUDY

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

Money and banking (1)

Public finance (1)

International economics (1)

Economics of industry (2)

Economics of labour (1)

Economic statistics (2)

Recent economic history (2)

Second-year economics seminar (1)

Tutorials—weekly.

Third year

Third-year economics seminar (2)

Revision class or tutorial (1)

Classes in each of the three special subjects chosen (3-6)

The degree of Bachelor of Commerce with accountancy as a principal subject

Second year

Money and banking (1)

Public finance (1)

Accountancy (3)

Commercial law (3)

Second-year economics seminar (1)

Economics of industry (2)

Economics of labour (1)

Tutorials in economics are held weekly.

Third year

Economic statistics (2)

Economic aspects of accountancy (seminar) (1)

Third-year economics seminar (2)

Accountancy (4)

Commercial law (2)

The degree of Bachelor of Commerce with law as a principal subject

Second year

- Economics of industry (2)
- Economics of labour (1)
- Money and banking (1)
- Public finance (1)
- Accountancy 2 (2)
- Second-year economics seminar (1)
- Law of contract and negotiable instruments (2)
- Industrial law (1)
- Public law

Third year

- Economic statistics (2)
- Accountancy 3 (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

- Money and banking (1)
- Public finance (1)
- Economic statistics (2)
- Economics of labour (1)
- Economics of industry (2)
- Second-year economics seminar (1)
- Textile calculations 1B (1)
- Loom study 1
- Cloth analysis 1 and 2
- Cloth structure 1
- Knitting 1A
- Physical testing (methods)
and either
- Staple fibre yarn manufacture 2
- or Woollen yarn production 2
- and Worsted yarn production 2

Tutorials in economics are held weekly or fortnightly.

SCHEMES OF STUDY

Third year

Seminar in textile economics (1)

Third-year economics seminar (2)

Loom study 2

Cloth structure 2

Complex textiles

Cloth finishing 1

Textile chemistry 3

Textile physics 2a

Physical testing (statistics)

Two of

Staple fibre yarn manufacture 3

or Woollen yarn production 3

and Worsted yarn production 3

Tutorials in economics are held weekly or fortnightly.

COURSES IN THE FACULTY OF ECONOMIC AND SOCIAL STUDIES

ECONOMICS

THE STRUCTURE AND WORKING OF THE ECONOMY

For 1st-year students reading for the degrees of Bachelor of Commerce, or Bachelor of Arts in special studies in economics or economics with statistics. Monday 11 to 12 and Friday 2 to 3.

The circulation of money, the social accounts, the industrial and occupational structure of economies, the determinants of the level of activity, growth and fluctuations of the economy.

Examination: Parts of 3 papers of 3 hours.

PRODUCTION, CONSUMPTION, AND MARKETS

For 1st-year students reading for the degrees of Bachelor of Commerce, or Bachelor of Arts in special studies in economics or economics with statistics. Wednesday 11 to 12 and Friday 3 to 4.

The theories of production, the firm, consumer's choice, markets and distribution, with illustrative material.

Examination: Parts of 3 papers of 3 hours.

GENERAL ECONOMICS

For all 1st-year students taking economics for a degree other than Bachelor of Commerce or Bachelor of Arts in special studies in economics or economics with statistics.

Tuesday and Thursday 10 to 11.

A general 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 3rd-year students reading for the degree of Bachelor of Arts in general studies (Scheme A).

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 combined studies with economics or economic history.

Tuesday 9 to 10, Thursday 10 to 11.

ECONOMIC AND SOCIAL STUDIES

The course: (1) outlines the main stages in the development of economic theories; (2) deals with the determinants of individual and aggregate consumption; (3) analyses the cost and revenue structures of firms in different market conditions; (4) deals with the determinants of factor prices; (5) contrasts the approach to the problem of full employment of the 'classical' writers with that of the 'Keynesians' and evaluates market structures from the point of view of efficiency and equity; (6) develops some theoretical points arising from the interdependence of national economies, and deals with the basic mechanisms involved in international trade.

Examination: 1 paper of 3 hours.

ECONOMICS OF INDUSTRY

For 2nd-year students reading for the degrees of Bachelor of Arts in special studies in economics or economics with statistics, or in combined studies with economics, or Bachelor of Commerce, and 3rd-year students reading for the degree of Bachelor of Science with Honours in agricultural economics.

Monday 10 to 11 and Tuesday 12 to 1 (first half of session);

Monday 4 to 5 and Tuesday 2 to 3 (second half of session).

The first part of the course outlines the main characteristics of the British industrial structure and examines market structures and performance, including that of the public sector. The second part is concerned with particular industrial problems, including finance, advertising, productivity and location.

Examination: Part of 1 paper of 3 hours.

ECONOMICS OF LABOUR

For 2nd-year students reading for the degrees of Bachelor of Arts in special studies in economics or economics with statistics, or in combined studies with economics, or Bachelor of Commerce, and 3rd-year students reading for the degree of Bachelor of Science with Honours in agricultural economics.

Monday 10 to 11, Tuesday 12 to 1 (second half of session only).

A survey of the economic problems involved in the employment of labour, of labour organisation, and of industrial relations.

Examination: Part of 1 paper of 3 hours.

MONEY AND BANKING

For 2nd-year students reading for the degrees of Bachelor of Arts in special or combined studies in economics or Bachelor of Commerce or Bachelor of Science with Honours in agricultural economics.

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.

ECONOMICS

*PUBLIC AND INTERNATIONAL FINANCE

For 2nd-year students reading for the degrees of Bachelor of Arts in special or combined 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. 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.

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.

ENGLISH ECONOMIC HISTORY 1066-1914

For 1st-year students reading for the degrees of Bachelor of Arts in special studies in economics and Bachelor of Science with Honours in agricultural economics, for 2nd-year students reading for the degree of Bachelor of Arts in combined studies 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 Norman Conquest and the end of the first 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.

*These courses will be given in the session 1961-2. In the following session Public finance and International economics will be offered as separate courses and Economic statistics 1 and 2 will be combined.

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, 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 textile management 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 1A, 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 control, standardisation, specialisation. The scientific management movement.

Elementary Sampling Statistics

Thursday 11 to 12 (second half of session).

Introduction to statistical methods and some of their applications in industry. Probability, frequency distributions and elementary variance and regression analysis. Relevance of these to quality control, acceptance sampling, investigation and experimentation in industry.

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.

Introduction to the theory of the firm: budgeting, control and economic organisation of enterprises. The emphasis is analytical rather than descriptive.

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 control, 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 fortnightly group tutorials in the second term.

INDUSTRIAL MANAGEMENT III

For undergraduates who have completed Industrial management I and II.

Human Relations in the Firm

Monday 2 to 3.30 (seminar).

Individual and group behaviour in administration. Informal organisation; communication; response to change.

Examination: 1 paper of 3 hours.

Administrative Practice B and Industrial Method Study

Monday 3.30 to 5 (seminar).

Emphasis on quantitative methods for decision making. Operational research techniques for problem solving including model construction and mathematical programming—linear and non-linear. Applications in business and industrial contexts. Requires knowledge of differential and integral calculus.

Examination: 1 paper of 3 hours.

ACCOUNTANCY 1

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.

ACCOUNTANCY 2 and 3

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.

ECONOMICS

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

Third year, 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.

Third 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 1(a)

For first-year students reading sociology as part of a special or combined studies scheme.

One hour a week.

An analysis of industrial societies as systems of social institutions.

ECONOMIC AND SOCIAL STUDIES

- (a) The fundamental concepts of sociology: action, role, social relation, social conflict, institution, community and association; inter-relations between economic, political, religious and ideological institutions.
- (b) The consequences of industrialisation for the political, economic and class systems; social roles in industry under capitalism, class conflict and bureaucracy, the development of economic and political classes, status and social stratification, ideology and social conflict.
- (c) The consequences of industrialisation for the family and the community :
Male and female roles in the industrial family, problem of socialisation in modern society, the effect of recent social changes on family structure, community in the modern city, the nature of a mass society.

INTRODUCTION TO SOCIOLOGY 1(b)

For first-year students reading sociology as part of a special or combined studies scheme.

One hour a week.

The age and sex structure of the population of Great Britain and its development. Marriage and divorce. The family, and the employment of women. The educational system. Education and social selection. The social structure. The middle classes and the professions. The distribution of incomes and property. Poverty. Attempts to stratify the population into social groups.

POLITICS I *The Government of Great Britain*

For first-year students reading for the degree of Bachelor of Arts in special or combined studies, or 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.

SOCIOLOGICAL THEORY 2

For 2nd-year students reading sociology as a special or combined studies course.

The character and form of sociological explanation: functionalism and its modifications: system analysis. Role and status systems in contemporary society, with particular reference to the kinship system and the economic order: socialization, education, social mobility; professionalization, work in modern society, bureaucracy. Social stratification: class, class consciousness, class conflict and social status. Institutional analysis.

*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.

* This course will be given for the last time in session 1961-2.

†SOCIOLOGICAL THEORY 3

For 3rd-year students reading sociology as a special or combined studies course.

The analysis of value-systems: the social functions of religion: the structure of knowledge in modern society and its institutionalization. Social control: law and social structure. Social disorganization: *anomie*; deviance. Social change: microcosmic and macrocosmic process of change. Social conflict and social change.

SCIENTIFIC METHOD 2

For 2nd-year students reading sociology as a special studies or combined studies scheme.

An introduction to the methods used in scientific investigation in the physical, biological and social sciences. 'Explanation', 'cause' and 'scientific' laws. Illustration of scientific method from the history of science. The elements of statistical method.

METHOD OF SOCIAL INVESTIGATION

For 3rd-year students reading sociology.

For the degree of Bachelor of Arts in special studies in sociology or in general or combined studies.

Monday 10 to 11.

Deductive and inductive methods in the social sciences. The problems of observation in sociology, laws and models, value judgements and the problems of objectivity. Empirical methods in social research.

COMPARATIVE 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.

A comparative and historical approach to the structure of modern industrial society. The principal classes of modern society: their historical definition, economic basis, relation to political and state organisation and ideology. The relation of this social structure to other contemporary societies and to its own predecessors. Theories of social development, with particular reference to the character of tribal societies and the conditions of their transformations, past and present.

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.

† This course will be given for the first time in session 1962-3.

ECONOMIC AND SOCIAL STUDIES

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 ECONOMIC AND SOCIAL HISTORY OF MODERN BRITAIN 1760-1939.

For 2nd-year students reading sociology as part of a special or combined studies scheme.

Beginning with an outline of the main economic changes which have affected Britain during the past two hundred years, an account will be given of their social repercussions and background, including population changes; the growth of urban and rural society; the roles of local and national government; social legislation; changing class structure; the growth of labour organisations; religious, educational and political influences.

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 3rd-year students reading for the degree of Bachelor of Arts in special studies in sociology and in political studies, and in combined studies.

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

For 2nd-year students reading for the degree of Bachelor of Arts in special or combined studies.

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. Influences leading to changing attitudes to the role of the state in promoting community and individual welfare. The economics of welfare.

SOCIAL ADMINISTRATION 3

For students reading for the degree of Bachelor of Arts in special or combined studies.

One hour a week.

SOCIAL STUDIES

Social needs today; the structure and purpose of modern social services. Statutory, voluntary, and individual provision to meet need. An introduction to the comparative study of social security.

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

For 2nd-year students reading for the degree of Bachelor of Arts in special or combined studies.

It is essential that students taking this course have reached 'O' level standard in mathematics, and it is desirable that they should have studied the subject to 'A' level.

An introduction to demographic analysis and the study of human populations. The main sources of published population data. Death rates. Standardization. The life table. Gross and net nuptiality tables. The analysis of fecundity and fertility. The stationary and stable populations.

DEMOGRAPHY 3

For 3rd-year students reading for the degree of Bachelor of Arts in special or combined studies.

The growth of world population since 1650, and associated changes in population structure. Differential fertility. Problems of high fertility areas. Social and economic implications of demography. Population theories and policies.

SOCIAL STATISTICS 2

For 2nd-year students reading for the degree of Bachelor of Arts in special or combined studies.

Students attending this course will be expected to be familiar with the elements of the differential and integral calculus.

ECONOMIC AND SOCIAL STUDIES

Elementary statistical theory; moments and cumulants. The binomial, Poisson and normal distribution, and their application to simple sampling problems. Tests of significance. Linear regression and correlation. The standard errors of regression and correlation coefficients.

SOCIAL STATISTICS 3

For 3rd-year students reading for the degree of Bachelor of Arts in special or combined studies.

The application of statistical methods to social problems and surveys. Difficulties of sampling, and different sampling methods. Interviews and questionnaires. The design of social experiments. Statistical methods used in empirical studies. History of social statistics.

SOCIAL ANTHROPOLOGY 2

For 2nd-year students reading for the degree of Bachelor of Arts in special or combined studies.

Social anthropology as a discipline. Its relationship with allied fields of study. An outline of the institutional framework of pre-literate societies; (a) marriage and the family, (b) kinship, (c) magic and religion, (d) economic structure.

*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.

†SOCIAL ANTHROPOLOGY 3

For 3rd-year students reading for the degree of Bachelor of Arts in special or combined studies.

Pre-literate societies and social change. The effects of Western political and economic control of 'primitive' societies. Transitional communities and their development. Social change in European societies.

REGIONAL SOCIAL ANTHROPOLOGY

For 3rd-year students reading for the degree of Bachelor of Arts in special or combined studies.

Two hours a week.

The Caribbean, Brazil and North America. A study of some selected countries.

POLITICS II *British Government*

For 2nd-year students reading for the degree of Bachelor of Arts in special or combined studies.

Monday 11 to 12.

* This course will not be given after the session 1961-2.

† This course will be given for the first time in the session 1962-3.

SOCIAL STUDIES

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 second year students reading for the degree of Bachelor of Arts in special or combined studies.

A comparative study of constitutions and forms of government, the political institutions of the British Commonwealth, the United States, France, West Germany and the Soviet Union which will be treated in general outline.

Modern Foreign Governments 3

For 3rd-year students reading for the degree of Bachelor of Arts in special or combined studies.

A detailed comparative study of political institutions and problems of government, by topic; constitutions, electoral systems, parties and pressure groups, presidential and cabinet systems, parliaments, civil service organisation, local government, public enterprise, judicial control of public authorities, etc.

INTERNATIONAL RELATIONS 2

For 2nd-year students reading for the degree of Bachelor of Arts in special or combined studies.

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

For 3rd-year students reading for the degree of Bachelor of Arts in special or combined studies.

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.

THE GOVERNMENT OF THE U.S.S.R.

For 3rd-year students reading for the degree of Bachelor of Arts in special or combined studies.

ECONOMIC AND SOCIAL STUDIES

The October Revolution and the development of Soviet government. The organisation and distribution of authority. The state machinery. The Communist Party and the mass organisations. Soviet 'federalism'. The administration of the state economy. Elections and public opinion. Local government. Soviet justice. The citizen and the State. The process of decision-making.

THE GOVERNMENT OF THE U.S.A.

For 3rd-year students reading this subject as part of a special or combined studies scheme.

The development of the Constitution; the Federal system; the Presidency, Congress, the Supreme Court. The Administration. Political parties, and the electoral process. State governments. Local government and administration.

HISTORY OF SOCIOLOGICAL THEORY

Four terms, beginning in the second term of the second year.

For students reading this subject as part of a special studies scheme.

An analysis of the methods, theories and contributions to empirical sociology of some of the major sociologists.

The course will be particularly focused on the writings of Max Weber, Karl Marx, Emile Durkheim, and some contemporary sociologists.

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.

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 STUDIES

SOCIAL ADMINISTRATION (Diploma)

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 I

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.

ELEMENTS OF ENGLISH LAW

For the diploma in social studies.

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 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; 1½ 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; 1½ 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.

ECONOMIC AND SOCIAL STUDIES

ELEMENTS OF CENTRAL AND LOCAL GOVERNMENT

For the diploma in social studies. Graduate students.

ELEMENTS OF SOCIAL MEDICINE

For the diploma in social studies.

Two hours a week.

Relationship between heredity and health and disease. Environmental influences affecting health and disease. Maturation in health and disease.

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 of principal features of social organisation; the family; economic structure; political structure; social stratification; social control; systems of knowledge and belief.

PSYCHIATRIC ASPECTS OF SOCIAL CASEWORK

For the diploma in social studies.

Second year; a weekly class.

ELEMENTS OF HUMAN GENETICS

For second year students reading sociology.

Eight lectures in the second term.

Introduction to genetical theory through study of cell division, chromosomes, genes and gene mutations, Mendel's work, Mendelian genetics and exceptions to straightforward Mendelism illustrated by reference to inheritance in man. Radiation genetics. Eugenics.

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 426.]

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

MASTER OF LAWS

(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 427.]

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 283 and 293.]

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 427.]

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 either private international law or company 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 either private international law or company 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.

COMPANY LAW

Third year; Monday, 3 to 4.

General principles.

Examination: 1 paper (for *Honours* students only).

THE FACULTY OF SCIENCE

ORDINANCE V

[N.B. Students entering in session 1961-62 will be admitted under the old articles, for which see page 440.]

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 sufficiently high standard in the examinations upon which Honours may be awarded.

3. (a) Candidates who have passed the required examinations for the degree of Bachelor of Science may be awarded:
(i) the degree of Bachelor of Science with Honours, Class I
or (ii) the degree of Bachelor of Science with Honours, Class II,
division (i)
or (iii) the degree of Bachelor of Science with Honours, Class II,
division (ii)
or (iv) the degree of Bachelor of Science with Honours, Class III
or (v) the Ordinary degree of Bachelor of Science.
(b) The names of candidates who have passed the examination for the degree of Bachelor of Science shall be grouped so as to distinguish the main subject or subjects of the scheme of study in which each has passed: the names of candidates in each group shall be arranged alphabetically within the categories of (a) above.

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 schemes of study for not less than three academic years.

5. A candidate who has been awarded the degree of Bachelor of Science may not present himself a second time for an examination on the same scheme of study.

* Subject to the approval of the Court.

DEGREES

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 not later than the end of the fifth academic year from the time when he entered upon the first year of a four-year scheme of study approved by the University for the degree; or not later than the end of the fourth academic year from the time when he entered upon the second year of an approved scheme of study.
 - (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 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 Science later than the end of the sixth academic year after his entry upon the approved scheme of study.
7. Candidates may proceed to the degree of Bachelor of Science by satisfactorily completing courses in one of the following schemes of study and passing the required examinations:
 - (a) schemes of study with one main subject selected from:

Anatomy	Mathematics
Bacteriology	Pharmacology
Biochemistry	Pharmacy
Botany	Physics
Chemistry	Physiology
Geography	Psychology
Geology	Zoology
 - (b) schemes of study with two main subjects (combined).
Schemes of study including, as main subjects, two of the subjects in (a) above (with the addition of statistics and philosophy to the list) will be approved by the Senate and Council on the recommendation of the Board of the Faculties of Science and Technology.*
8. Only candidates who pass the examinations prescribed for the fourth year of a four-year scheme of study will be eligible for the award of the degree with Honours.
9. Candidates who complete the courses prescribed for the first three years of a four-year scheme of study (or such courses as may, with the approval of the Board of the Faculties of Science and Technology be substituted for them) and pass the necessary examinations, will be eligible for the award of the Ordinary degree of Bachelor of Science; candidates who complete these requirements after only two years of residence will be required to follow an approved course of study for a further year before graduating.

*Combined schemes of study will be drawn up during session 1961-62: in future publications a list of the schemes that are approved will be appended to the Ordinance. Intending candidates should address enquiries about schemes to the Director of Combined Studies in the Faculty of Science.

MASTER OF SCIENCE

10. A candidate may transfer from one scheme of study leading to the degree of Bachelor of Science to another only in conformity with the provisions laid down by the Board of the Faculties of Science and Technology.

11. Subject to the provision of articles above, a candidate who has passed the examinations prescribed for the degree of Bachelor of Science with Honours in the Faculty of Science or in the Faculty of Technology 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 on one of the above schemes of study after attending an approved course of study in the University for not less than one further year.

THE DEGREE OF MASTER OF SCIENCE

12. The degree of Master of Science may be conferred, on payment of the proper fee and subject to the conditions laid down in articles 13 and 14:

- (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 12 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.]

13. Candidates for the degree of Master of Science shall in all cases, except those accepted under article 12 (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 12 (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.

14. Candidates who are accepted under article 12, 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.

15. 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 438.]

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 283 and 293.

THE DEGREE OF DOCTOR OF SCIENCE

16. 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.

17. 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.

18. 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 439.]

DIPLOMAS

DIPLOMAS

19. 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.

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

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

[See also page 462.]

REGULATIONS

THE DEGREE OF BACHELOR OF SCIENCE *

[N.B. Students entering in session 1961-62 will be admitted under the old regulations, for which see page 443.]

1. Candidates will not be admitted to schemes of study 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. 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 may be required.

3. Candidates who have achieved a good performance in an Advanced level examination for the General Certificate of Education (or an equivalent examination) may be exempted from attendance at and examination on the corresponding courses prescribed for the first year of a scheme of study.

4. Candidates proceeding to the degree of Bachelor of Science by a scheme of study with one main subject are required, except in so far as they may be exempted from one or more first-year courses and examinations as provided in regulation 3 above, to pursue courses as prescribed in the ensuing section "Prescribed Schemes of Study for the degree of Bachelor of Science."

5. Candidates proceeding to the degree of Bachelor of Science by a combined scheme of study are required, except in so far as they may be exempted from one or more first-year courses and examinations as provided in regulation 3 above, to pursue courses in two main subjects for four academic years, and *either* courses in two other subjects, † one for two academic years and one for one academic year, *or* courses in one other subject † for three academic years, and to pass the necessary examinations: with the permission of the Director of combined studies, a candidate selecting the second of these options may substitute for the course at third-year level in the third subject an approved equivalent additional course in one of the two main subjects. Except when repeating a course, candidates will not normally be permitted to take more than three courses in any academic year.

Exemption from the whole of the first year of a combined scheme of study (i.e. from three first-year courses) may be granted to candidates who have achieved a good performance in two of the corresponding Advanced level examinations for the General Certificate of Education (or an equivalent examination) and present satisfactory evidence of study of a further subject beyond the standard required for a pass at the Ordinary level examination for the General Certificate of Education.

6. The award of the degree at the end of the fourth year of a combined scheme of study will be assessed on the results of the fourth-year examinations which will cover the content of all the courses taken in the two main subjects after the first year of the scheme.

* Subject to the approval of the Court for the necessary alteration in the Ordinance.

† These subjects may be in any Faculty.

BACHELOR OF SCIENCE

7. To qualify for the award of the Ordinary degree of Bachelor of Science candidates must, except in so far as they may be exempted from one or more first-year courses and examinations as provided in regulations 3 and 5 above, satisfactorily complete all the courses and pass the necessary examinations in the first three years of a prescribed scheme of study, except that:

- (a) candidates who have failed required examinations on a course or courses at the second-year or third-year level, may, with the approval of the Board of the Faculties of Science and Technology, offer courses and examinations of equivalent standing in substitution for one or more of the courses and examinations prescribed for the second year or third year respectively of the scheme of study.
- (b) candidates who, having been exempted from all courses and examinations in the first year of the scheme of study and having pursued courses for two academic years, have passed the prescribed examinations for the third year of the scheme of study but do not proceed to the fourth-year courses of the scheme, shall for one further year, as required by articles 4 and 9 of the Ordinance, pursue a course of study approved by the Board of the Faculties of Science and Technology and present themselves for the examinations thereon.

8. To qualify for the award of the Ordinary degree of Bachelor of Science candidates proceeding by a combined scheme of study must, except in so far as they may be exempted from one or more first-year courses and examinations as provided in regulation 3 and 5 above, complete all the courses prescribed for the first three years of the scheme of study and pass the third-year examinations in two subjects and the second-year examinations in one other subject.

9. Candidates will not be permitted to present themselves for examination in any subject unless they have regularly attended the prescribed courses and performed the work of the class to the satisfaction of the head of the department concerned.

10. Candidates must present themselves for the departmental examinations arranged in connection with any course they may take.

11. The examinations will ordinarily be held in June of each year. Examinations on first-year 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.

12. 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 permitted to present himself for the examination on a required first-year course later than two years after starting that course or later than the end of the third year of a scheme of study.

13. Normally a candidate may not proceed to a more advanced course in a subject until he has attained a sufficient standard in, or, in accordance with regulation 3, has been exempted from the examination on the preceding course laid down for the subject.

REGULATIONS

14. Candidates presenting themselves for the prescribed examination in a subject at the end of the second, third or fourth year of a scheme of study and failing to pass therein may on the recommendation of the examiners be deemed to have passed the examination in that subject corresponding to an earlier year in the scheme of study.

15. Only in exceptional circumstances will the Board of the Faculties of Science and Technology grant permission to transfer from one scheme of study to another later than the end of the second year of the four-year scheme.

THE DEGREE OF MASTER OF SCIENCE

16. Candidates admitted under the provisions of article 12, 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 themselves for an examination (written, or oral, or both) in the theme of their thesis. Candidates admitted under the provisions of article 12, 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 12(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 283 and 293.

* 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.

DOCTOR OF SCIENCE

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.

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 232.]

[N.B. The following articles and regulations apply only to students entering before October 1962. For those applying to students entering in October 1962 and thereafter, see pages 431 and 436.]

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,

DEGREES

- 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.

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.

BACHELOR OF SCIENCE

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.

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 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	

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 make 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

11. 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
	Music
	Philosophy and history of religion
†Icelandic	Biblical studies
French	Psychology
German	Fine art
Italian	

†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 course.

*In this subject it is not permitted to take only one General course; two General courses must be taken in consecutive years.

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) achieve a good performance 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) achieve a good performance 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 good performance in (i) the subjects A26 and A27 of the Joint Matriculation Board, or the equivalent, or (ii) in subject 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 463 and 465) a one-year course in each of two ancillary subjects. Of these one must be Statistics Introductory (see page 463) and the other a subject selected after consultation with the head of the department of mathematics from those approved for the degree of Bachelor of Science in general studies. Candidates for the special studies degree in mathematics must reach a satisfactory standard in each of the ancillary subjects. Each student will be given an opportunity for specialisation in appropriate subjects in his final 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

* Subject to revision for students entering in October 1962 and thereafter.

MATHEMATICS

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, or (ii) as a double subject but must include both pure and applied mathematics.

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

SCHEMES OF STUDY

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
Physics G1A
Physics G₂
Physics 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 achieved a good performance 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 469) 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 once 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 A and B

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. 480 and 481.

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
Plant pathology
Intensive short courses on selected topics.

Special studies and general studies

Field Work

Whole-day and half-day class excursions are arranged from time to time during the session, and at least once each year opportunity will be given for several consecutive days to be spent on ecological work away from Leeds.

All students attending final courses in botany are expected to attend a proportion of such field excursions unless exempted therefrom by the head of

* A candidate taking more than one General course in chemistry must offer at least two such courses in his final examination.

BOTANY

department. In addition all students taking botany as a principal subject for a degree must submit a written report of an individual piece of ecological work which in most cases will be carried out in the long vacation of the second year (i.e. the year preceding that in which the student sits for a final 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 botany component when courses in botany are taken.

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 specialise in zoology should have an interest in field studies or in animal physiology. In either case a sound knowledge of the physical sciences is essential and mathematics, physics and chemistry should be studied at least to "O" level. A reading knowledge of French and German or Russian is also desirable.

The length of the full scheme of study leading to a degree with Honours is four years, but exemption from the first year is granted to students who have high attainments in two advanced level subjects, one of which must be zoology (not biology), and a pass in a third. The ancillary subjects should be two of the following : chemistry, physics, mathematics, botany, geology, every effort being made to include chemistry.

The four-year scheme of study is available to all students of proved calibre whether they have previous knowledge of the subject or not. Applications from students with high attainments in Arts subjects or in the physical sciences would be seriously considered.

First year

Zoology Introductory

Chemistry Introductory

An Introductory subject chosen from physics, mathematics, botany, geology or other approved subjects in the Faculty of Science

A further Introductory subject chosen from the list in 3 above or from economics, history and philosophy of science, fine art, Russian or other approved subject in the Faculty of Arts.

SCHEMES OF STUDY

Second year

Zoology G₁

A G course in one of the science subjects taken in the first year

A further G course in physiology, bacteriology, biochemistry or in any subject taken in the first year.

Third year

Zoology G₂ and G₃

A second G course in a science subject taken in the second year.

Fourth year

Zoology S—full time study of advanced aspects of the subject together with such project work as may be prescribed.

Three-year scheme of study

First year exempt

Second year (1st year of residence)

Zoology G₁

A G course in the second subject in which a high mark was obtained at advanced level.

An introductory course—this must be chemistry if not already taken or exempted; otherwise to be chosen from mathematics, physics, botany, geology, economics, Russian, etc. The choice of subject may be restricted by time-table possibilities. If a mark of approximately 60 per cent was gained in three advanced level subjects, the Introductory course may be omitted and a G course substituted.

Third year (2nd year of residence)

Zoology G₂ and G₃.

A second G course in the subject taken in the previous year.

Fourth year (3rd year of residence)

Zoology S— as in four-year course.

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.

GEOLOGY

GEOLOGY

Special studies

This scheme of study is primarily for those who hope to make a career in geology. A good general and scientific education is required, with advanced study in chemistry, physics, and/or mathematics. In addition to the necessary chemistry and zoology, there is a wide choice of supporting subjects, and a preliminary study of some of these subjects is thus an advantage. Knowledge of one foreign language is also very desirable since a reading knowledge of French and German is required by the end of the fourth year. Good physical health, including good eyesight, is essential for those intending to be geologists. Candidates should also have a liking for open-air life and be prepared to travel.

Exemption from Geology Introductory is not normally granted; exemption from other Introductory courses is not necessary though it will be an advantage. Students have to take (or be exempted from) the following additional courses: Chemistry Introductory, Zoology Introductory, a second year course in either chemistry or zoology, a course in surveying.

The scheme of study will be as follows:

First year

Geology Introductory

Three other introductory subjects, normally selected from:

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 two foreign languages 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 G1A, G1B or G1C

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 I

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, mathematical and experimental)

Neuro-anatomy

Physiology G1A or another approved subject, which may extend over two years.

The examination in physiology or the subject approved in its stead, is an integral part of the final examination and the results obtained will be taken into account in considering the candidate's 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. Candidates who have achieved a good performance at the Advanced level in an examination for the G.C.E. 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 Go 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 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.

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 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 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 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. Exemption from Chemistry Introductory is essential and from Botany Introductory or Zoology Introductory desirable.

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.

BIOCHEMISTRY

The scheme of study will be as follows:

First year

Chemistry Gi

Chemistry Gp

Physiology G1

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 scheme of studies 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 scheme 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) a good performance in chemistry

and (c) either a good performance 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 I
Pharmaceutics I

Second year

Pharmacognosy 2
Pharmaceutics 2 (including Bacteriology F)
Histology
Physiology G1A
Pharmaceutical chemistry I
Pharmacology I

Third year

Pharmaceutics 3 (including 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 336] 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

GEOGRAPHY

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 performance 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 achieved a good performance in a subject in the examinations in the General Certificate of Education at advanced level may be exempted from the Introductory course in that subject and may take the General course instead.

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 383.

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 304.

PREScribed SCHEMES OF STUDY FOR POSTGRADUATE DIPLOMAS

ELECTRONIC COMPUTATION

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) Programming for computing systems
 - (b) The logical design of computers
 - (c) Numerical analysis
 - (d) Further numerical analysis or data processing methods
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 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. During the year candidates will be required to pass a test on the history of mathematics.

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 special studies in chemistry

MATHEMATICS C₁P

First year; 3 hours a week at times to be arranged. Calculus including differential equations and Fourier series, complex numbers, determinants, analytical geometry of three dimensions.

Examination: 1 paper.

MATHEMATICS C₁A

Second year; 2 hours a week at times to be arranged. Mechanics of particles and systems of particles, including vector and Lagrangian methods; theory of errors and least squares.

Examination: 1 paper.

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.

MATHEMATICS

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

First year; Tuesday and Thursday, 10 to 11 or 12 to 1; Friday, 2 to 3, or Saturday, 10 to 11; and 3 hours' laboratory work a week at times to be arranged. The same times for lectures and laboratory work must be adhered to throughout the session.

The course, which includes experimental demonstrations, covers the main branches of physics in an elementary manner under the headings: matter and motion; heat, light and atoms; electricity and magnetism. 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 laboratory work during the course.

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 laboratory work during the course.

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 covering Physics G1 and Physics G2, and laboratory work during the course,

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 covering Physics G1, Physics G2 and Physics G3, and laboratory work during the course.

COURSES

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 exercises and laboratory work during the course.

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 exercises and laboratory work during the course.

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, electronics and principles of design, radiation physics.

Examination: 4 papers and exercises and laboratory work during the course.

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. For either course, candidates will be required to satisfy the examiners in both the inorganic and physical and in the organic chemistry sections of the written paper.

CHEMISTRY G_i (INORGANIC) [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 G_p (PHYSICAL) [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 G_o (ORGANIC) [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_A (PHYSICAL) [6]
First or second 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 T_B (PHYSICAL) [7]
Second or third year; Tuesday, Thursday and Saturday, 10 to 11. There is no laboratory work in connection with this course.

Examination: 1 paper.

For the degree of Bachelor of Science in special studies

CHEMISTRY I₁ (INORGANIC AND STRUCTURAL) [8]
First year; Thursday, 9 to 10; Friday, 10 to 11.

Examination: 1 paper and a practical examination.

CHEMISTRY P₁ (PHYSICAL) [9]
First year; Monday, 10 to 11; Saturday, 9 to 10.

Examination: 1 paper.

CHEMISTRY O₁ (ORGANIC) [10]
First year; Wednesday, 10 to 11; Saturday, 11 to 12.

Examination: 1 paper.

CHEMISTRY I₂ (INORGANIC) [11]
Second year; Tuesday, 10 to 11; Wednesday and Friday, 9 to 10.

Examination: 1 paper.

CHEMISTRY P₂ (PHYSICAL) [12]
Second year; Monday 9 to 10; Thursday, 11 to 12; Saturday 10 to 11.

Examination: 1 paper.

CHEMISTRY O₂ (ORGANIC) [13]
Second year; Tuesday and Saturday, 9 to 10; Friday 4 to 5.

Examination: 1 paper and assessment of practical work.

COURSES

CHEMISTRY S₃ (INORGANIC AND PHYSICAL) [14]
Third year; Monday and Wednesday, 9 to 10; Tuesday, 11 to 12; one hour a week during the second term will be spent in an informal seminar.

CHEMISTRY O₃ (ORGANIC) [15]
Third year; Monday and Wednesday, 11 to 12; Tuesday 9 to 10.
Laboratory work and tutorial classes in connection with courses numbers 8 to 15 at times to be arranged.
Final examination: 6 papers and assessment of practical work.

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 468).

CHEMISTRY 2nd M.B. (ORGANIC) [18]

CHEMISTRY 2nd M.B. (PHYSICAL) [19]
Courses 18 and 19 are taken together in the 1st year (for candidates exempted from 1st M.B.); or in the 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 not* be given in 1961-62.

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* be given in 1961-62.

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.

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.

COURSES

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; lectures, Monday and Friday, 11 to 12; laboratory work, Tuesday, 2 to 4, and Wednesday, 10 to 12, 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. 1st M.B., Ch.B; lectures and laboratory work to be arranged.
Examination: 1 paper and a practical examination.

For the degree of Bachelor of Science in general studies and special studies, and Bachelor of Arts in general studies

ZOOLOGY G₁

Second year; lectures, Wednesday, 9 to 10; Tuesday and Thursday, 11 to 12; laboratory work, Tuesday, 2 to 5 and Saturday, 9 to 12. Systematic and comparative anatomy of invertebrates. Evolutionary theory, animal physiology, experimental zoology and ecology.
Examination: 1 paper and a practical examination.

ZOOLOGY G₂

Third year; lectures, 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, animal behaviour and embryology.
Examination: 1 paper and a practical examination.

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.

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.
Examination: 6 papers.

For the diploma in public health

PARASITOLOGY AND GENETICS

Year, day and time: to be arranged.

GEOLOGY

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, lecture 10 to 11, laboratory 11 to 1 or 2 to 4.

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.

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 palæontology, sedimentology, structural geology, advanced geological map interpretation.

Examination: 3 papers and 4 practical examinations.

* Provisional.

COURSES

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; Tuesday 2 to 4.

An amplification of Economic geology (mining).

For the degree of Bachelor of Science in applied science

GEOLOGY INTRODUCTORY (ENGINEERS)

Four hours a week; lectures, Thursday 9 to 10 and 2 to 3, laboratory, Wednesday 11 to 1 or Thursday 3 to 5.

An introduction to the principles of geology as applied to civil engineering.

Examination: 1 paper and a practical examination.

GEOLOGY INTRODUCTORY (MINING)

Five hours a week; lectures, Monday and Friday 10 to 11, laboratory, Thursday 2 to 5.

An introduction to the principles of geology and mineralogy.

Examination: 1 paper and a practical examination.

ECONOMIC GEOLOGY (MINING)

Seven hours a week; lectures, Tuesday and Wednesday 10 to 11, laboratory, Tuesday 2 to 4, Friday 10 to 1.

Mineralogy, economic mineral deposits, structural geology, map interpretation.

Examination: 1 paper and a practical examination.

GEOLOGY FOR CERAMICS

One lecture hour and 3 laboratory hours a week. Introductory crystallography, mineralogy, petrography, and G optical mineralogy.

Examination: 1 paper and 1 practical examination.

PSYCHOLOGY

Courses in psychology, except when otherwise stated, are available for candidates for Bachelor of Arts and Bachelor of Science degrees in general, combined or special studies, and for the degree of Master of Arts. Normally every course, other than in Experimental psychology, is for one hour a week at times to be indicated.

PSYCHOLOGY

PSYCHOLOGY I

- Psychology B1:* Biological psychology
- Psychology E1:* Experimental psychology
- Psychology M1:* Elementary statistical methods
- Psychology O1:* Observational psychology

PSYCHOLOGY II

- Psychology A2:* Occupational psychology (industrial applications)
- Psychology D2:* Developmental psychology
- Psychology E2:* Experimental psychology
- Psychology F2:* Memory, learning, language and thinking
- Psychology H2:* History and philosophy of psychology
- Psychology M2:* Mathematical psychology
- Psychology S2:* Social psychology

PSYCHOLOGY III

- Psychology A3:* Educational applications of psychology
- Psychology B3:* Physiological psychology
- Psychology C3:* Information theory
- Psychology D3:* Defect and abnormality
- Psychology E3:* Experimental psychology
- Psychology H3:* Recent history of psychology
- Psychology S3:* Social psychology

PSYCHOLOGY IV

- Psychology A4:* Clinical applications of psychology
- Psychology B4:* Animal behaviour
- Psychology C4:* Language and communication
- Psychology D4:* Personality theory
- Psychology E4:* Experimental psychology
- Psychology F4:* Perceptual functions
- Psychology M4:* Psychophysics and psychometrics.

For the diploma in social studies

PSYCHOLOGY

An outline of developmental and social psychology.
Psychology applied to practical situations.

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.

COURSES

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.

PHYSIOLOGY G2 [complementary to Physiology G1]

Third year; 3 lectures and 6 hours' laboratory work a week at times to be arranged.

Digestion, metabolism and excretion.

The inter-relations of the topics studied in Physiology G1 (see above) are considered together with further studies in neurophysiology, endocrinology and nutrition.

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.

ANATOMY

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 leather science

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.

For the degrees of Bachelor of Science in special studies in pharmacology and pharmacy

BACTERIOLOGY F

Second or third year; at a time to be arranged.

An elementary course in bacteriology, with special reference to its application to problems in pharmacology and pharmacy.

BIOCHEMISTRY

For the degree of Bachelor of Science in general and special studies

Acceptance requirements: A pass in or exemption from Introductory Chemistry.

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.

COURSES

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.

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 and two hours laboratory work a week. An introduction to the subject with emphasis on the quantitative aspects of general pharmacology with particular reference to drug action in man (the introductory course in pharmacology for medical students).

PHARMACOLOGY 2

Third year; 3 lectures and 7 hours laboratory work a week.

Lectures and practical work in general and special pharmacology (including the lectures in pharmacology for medical students).

Examination: 2 papers and 2 practical examinations.

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.

PHARMACOLOGY AND PHARMACY

PHARMACEUTICS 2

Second year; 3 lectures and 6 hours laboratory work a week including bacteriology.

Lectures and laboratory work in general pharmacy and dispensing, including forensic pharmacy. An elementary course in bacteriology with special reference to pharmaceuticals [Bacteriology F].

Examination: 2 papers and practical examinations in dispensing and bacteriology.

PHARMACEUTICS 3

Third year; 2 lectures and 8 hours laboratory work a week. More advanced work in general pharmaceuticals including the preparation of sterile medicaments and testing for sterility. Formulation and large-scale processing. A course in statistics.

Examination: 2 papers and 2 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.

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.

COURSES

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 civilization 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*, page 130.

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 130), save that the special subjects for examination in 1962 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.

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

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 379.

COURSES

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, presenting chemistry, zoology, physics and one other subject in the first year's programme. After the first year (or in that year if exemption is obtained from first year work in chemistry, zoology and physics) 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 381 and prospectus *The Faculty of Arts*.]

THE FACULTY OF TECHNOLOGY

ORDINANCE V

[continued from page 435]

DEGREES IN APPLIED SCIENCE

22. 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 436.]

23. The degree of Bachelor of Science shall be conferred either as an ordinary degree or as a special Honours degree.

24. 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

25. Every candidate shall be required to attend courses of study as set forth in the regulations for his particular school of applied science.

26. 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

27. 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.

28. 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.

BACHELOR OF SCIENCE WITH HONOURS

29. 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.

30. 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.

31. 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.

32. 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.

33. 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.

34. 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 12 to 15 and relevant regulations which will be found on pages 433 and 438. Particulars of a scheme of co-operation for postgraduate study in textile technology will be found on page 488.]

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 283 and 293. Particulars of a scheme of co-operation for postgraduate study in textile technology will be found on page 488.]

THE DEGREE OF DOCTOR OF SCIENCE

[The degree of Doctor of Science in applied science subjects is governed by ordinance V, articles 16 to 18 and the relevant regulation which will be found on pages 434 and 439.]

REGULATIONS FOR DEGREES

[continued from page 439]

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
 Leather science
 Food science
 Agriculture
 Agricultural botany [Honours school only]
 Agricultural chemistry [Honours school only]
 Agricultural economics [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 439.

Attention is also drawn to the general regulations for all examinations on pages 232 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)	Mining engineering
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Leather manufacture	Textile industries.
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In addition the University grants postgraduate diplomas in the following subjects:

Agricultural bacteriology	Concrete technology
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Agricultural botany	Fuel science
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Agricultural chemistry	Gas engineering
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Agricultural economics	Food science
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Agricultural zoology	Leather science
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Agriculture (farm management)	Metallurgy
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Applied geophysics	Mineral dressing and coal preparation
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Ceramics	Plant pathology
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Chemical engineering	Textile industries.
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[Further detailed regulations governing the award of these diplomas and prescribing approved schemes of study will be found on pages 514 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 433 and 438) and Doctor of Philosophy (see pages 283 and 293) 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 for engineers 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 and fourth years	Engineering III † ‡ Engineering IV or Industrial relations III or Industrial management III 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

* 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.

SCHEMES OF STUDY

Three-year scheme leading to the degree with Honours in civil engineering

First year	Engineering I Mathematics T1 pure and applied Metallurgy for engineers 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 for engineers 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	Engineering I Mathematics Introductory Metallurgy for engineers Applied economics B§ or Industrial management I¶ and either Physics Introductory or An approved alternative subject
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* 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.

§ Candidates wishing to proceed to Industrial relations II *must* take Applied economics B.

¶ Candidates wishing to proceed to Industrial management II *must* take Industrial management I.

ENGINEERING

Second year Engineering II R (A option)
 Mathematics T₁ pure and applied
 or Engineering IIR (B option)
 Mathematics T₁ pure and applied
 Industrial management II* *or*
 Industrial relations II†

Third year Engineering IIIR
 Statistics T
 Fuel and non-metallic materials

Fourth year Engineering IIIA
 Engineering IV
 or 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 T₁ pure and applied
 Metallurgy for engineers
 Applied economics B‡ *or* Industrial management I§

Second year *either* Engineering IIA
 Statistics T
 Fuel and non-metallic materials
 or Engineering IIB
 Statistics T
 Fuel and non-metallic materials
 *Industrial management II *or* †Industrial relations II

Third year *either* Engineering IIIA
 Engineering IV
 or Engineering IIIB
 Engineering IV
 Industrial management III *or* †Industrial relations III

Three-year scheme leading to the ordinary degree in mechanical engineering

First and As in the four-year scheme leading to the degree with Honours
 second years

Third year Engineering IIIR
 Fuel and non-metallic materials

* 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.

‡ Candidates wishing to proceed to Industrial relations II *must* take Applied economics B.

§ Candidates wishing to proceed to Industrial management II *must* take Industrial management I.

SCHEMES OF STUDY

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 T1 pure and applied Metallurgy for engineers Applied economics B 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 T1 pure and applied Metallurgy for engineers Applied economics B or Industrial management I
Second year	Engineering II Fuel and non-metallic materials and one of the following: Mathematics T2 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
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
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ENGINEERING

Second year Engineering II
 Fuel and non-metallic materials

Third year Engineering III

Scheme of study leading to the degree in general studies (Old regulations)

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. 440 and 443. 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 Engineering IS Surveying Geology Introductory and one of the following: Physics Introductory Chemistry Introductory
Second year	Mathematics T1 pure and applied Engineering IIS Metallurgy for students of mining
Third year	Applied economics A Fuel Introductory Economic geology Mine surveying Mining I
Fourth year	Mining II Mining III (four courses)

Three-year scheme leading to the degree with Honours in mining

First year	Mathematics T1 pure and applied Engineering IS Surveying Applied economics A Metallurgy for students of mining
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SCHEMES OF STUDY

Second year Engineering IIS
 Fuel Introductory
 Geology Introductory
 Mining I
 Mine surveying

Third year Mining II
 Mining III (four courses)
 Economic geology

The three-year scheme may be followed by candidates whose qualifications upon entry permit them to be exempted from Mathematics Introductory and excused from either Physics Introductory or Chemistry Introductory.

Three-year scheme leading to the ordinary degree in mining

First year Mathematics Introductory
 Engineering IS
 Surveying
 Geology Introductory
 and one of the following:
 Physics Introductory
 Chemistry Introductory

Second year Engineering IIS
 Applied economics A
 Fuel Introductory
 Metallurgy for students of mining
 Mining I
 Mine surveying

Third year Mining II
 Mining III (two courses)
 Economic geology

Candidates upon whom the ordinary degree of Bachelor of Science has been conferred may, upon completion of the three-year scheme leading to the ordinary degree, qualify for the award of Honours by completing a further one-year course which may be arranged.

Scheme of study leading to the degree in general studies (Old regulations)

The scheme may include an Introductory course and General courses in mining. The Introductory course covers surveying 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 mine surveying (Mining G₁), applied geo-physics (Mining G₂) and mineral dressing (Mining G₃).

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 in fuel science, gas engineering, ceramics or metallurgy will normally require four years' residence. In fuel science and gas 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 the above cases students are advised whenever possible to spend four years on their Honours courses.

The Honours course in chemical engineering occupies either three or four years, depending on the student's qualifications at entry and subsequent progress. For the three-year scheme, candidates must have achieved a good performance in mathematics and chemistry at the advanced level in a General Certificate of Education examination which will qualify them for exemption from the Introductory course and examination in these subjects; and must have attained the required standard in physics at the advanced level. Students accepted for the three-year scheme who fail to make satisfactory progress in their studies will be required to transfer to the four-year scheme.

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 I Applied economics A
Second year	Chemistry TA *Engineering IIS Engineering drawing (Houldsworth school drawing office) Metallurgy for engineers Ceramics Introductory Process instrumentation I

* 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.

SCHEMES OF STUDY

Third year	*Selected courses in pure or applied science
	Fuel science 2
	Gas engineering 1
	Heat transfer
	Chemical process principles
	Process instrumentation 2
	Mineral dressing

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 TA
	Mathematics T1 pure
	Physics G1B
	Engineering IISM2 and IISM4
	Metallurgy for engineers
	Fuel science 2
	Chemical process principles
Third year	Chemistry TB
	Chemistry Go
	Geology Introductory
	Statistics Introductory
	Gas engineering 1
	Elementary unit operations
	Process instrumentation 1
Fourth year	Fuel science 3, 4, 5 and 7
	Process instrumentation 2
	Heat transfer
	Chemical engineering (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 495).

Subsequently the scheme will include:

Second year	Chemistry TA
	Chemistry Go

* Selected by the head of the department in accordance with the special requirements of individual candidates.

HOULDSWORTH SCHOOL

	Engineering drawing (Houldsworth school drawing office)
	Mathematics T1 pure
	Gas engineering 1
	Metallurgy for engineers
Third year	Chemistry TB
	Engineering IIS
	Heat transfer
	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
	Process instrumentation 2
	Ceramics 2
	Colloquium

Students may also take one of the following: Mathematics T1 applied, Physics G1, Chemical engineering 3B, or other approved courses.

Three-year scheme leading to the degree with Honours in chemical engineering

First year	Mathematics T1 (omitting lectures on numerical analysis)
	Chemistry TA
	Organic chemistry (special course—Chemistry Go will be taken for the time being)
	Strength of materials
	†Power thermodynamics
	†Fuel science 1
	†Chemical process principles
Second year	Mathematics T2 (pure only)
	Chemistry TB
	Engineering design
	Electrical engineering
	†Ceramics 1B
	†Heat transfer
	†Fluid mechanics
	†Elementary unit operations
	†Process instrumentation 1
Third year	†Advanced heat transfer
	†Advanced fluid mechanics
	†Chemical engineering
	†Process instrumentation 2
	†Metallurgy
	Mathematical computation

* Special courses given by outside lecturers, some of which may be taken in the third year.

† Taken in Houldsworth School

SCHEMES OF STUDY

Four-year scheme leading to the degree with Honours in chemical engineering

First year	Introductory courses in 3 subjects (normally mathematics, physics and chemistry) *Fuel science I *Chemical process principles *Strength of materials (additional subject)
Second year	Mathematics T1 (omitting lectures on numerical analysis) Chemistry TA Organic chemistry (special course—Chemistry Go will be taken for the time being) *Power thermodynamics Electrical engineering Engineering design
Third year	Mathematics T2 (pure only) Chemistry TB *Heat transfer *Fluid mechanics *Metallurgy *Ceramics IB *Process instrumentation 1 *Elementary unit operations
Fourth year	Mathematical computation *Advanced heat transfer *Advanced fluid mechanics *Chemical engineering *Process instrumentation 2

For entry upon the three-year scheme of study, students must have reached a standard in mathematics and chemistry at the advanced level in a G.C.E. examination which will qualify them for exemption from the introductory course and examination in these subjects; and must have obtained a mark of at least 50 per cent in physics at the advanced level.

A student taking a three-year scheme of study who fails in more than one subject at the end of the first or second years will be required to transfer to the four-year scheme of study.

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 495).

Subsequently the scheme will include:

Second year	Chemistry TA Chemistry Gi Mathematics T1 pure and applied
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*Taken in Houldsworth School

	Heat transfer
	Ceramics 1
Third year	Chemistry TB
	Mining G3 (Mineral dressing)
	Process instrumentation 1
	Geology for ceramics
	Metallurgy for engineers
	Engineering IISM1 and IISE2
	Ceramics 4, 5 and 7
Fourth year	Ceramics 10, 11, 12, 13, 14, 15, 16
	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 scheme leading to the degree with Honours in metallurgy

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.

First year	Mathematics Introductory
	Physics Introductory
	Chemistry Introductory
	Fuel science 1
	General metallurgy
Second year	Mathematics T1
	Physics G1A*
	Chemistry TA
	Physical metallurgy
	Extraction metallurgy
Third year	Physics G2*
	or Mathematics T2
	Engineering 1S
	Heat transfer
	Metallurgical thermochemistry
	Alloy thermodynamics
	Commercial alloys
	Elements of quantum mechanics
	Crystallography
	Production of iron and steel 1
	Corrosion

* This course will be modified to suit the requirements of metallurgy students.

SCHEMES OF STUDY

Fourth year	Ceramics 3 Process instrumentation 3 Electrons in solids Structure of alloys Mechanical properties of alloys (H) Crystal physics Metal founding Metal forming Metal joining Production of iron and steel 2 Industrial practice Non-metallic materials
<i>Three-year scheme leading to the ordinary degree in metallurgy</i>	
First year	Mathematics Introductory Physics Introductory Chemistry Introductory Fuel science 1 General metallurgy
Second year	Chemistry TA or Mathematics T1 or Physics G1 Physical metallurgy Extraction metallurgy Engineering 1S
Third year	Ceramics 3 Process instrumentation 3 Commercial alloys Structure of alloys Metal founding Metal forming Metal joining Production of iron and steel (O) Mechanical properties of alloys (O) Corrosion Metallurgical economics Industrial practice Non-metallic materials

Scheme of study leading to the degree in general studies (Old regulations)

The scheme may include Introductory courses and General courses in fuel science, metallurgy and ceramics.

The Introductory courses, of which there are four, may consist of Fuel Introductory and Metallurgy for engineering, or of Fuel Introductory and Ceramics Introductory, or of Metallurgy for engineering and Ceramics Introductory, or of Introductory physical metallurgy. The first three will involve two lecture hours and four laboratory hours a week; the Introductory

physical metallurgy course will involve three lecture hours and three 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 for engineers followed by Introductory physical metallurgy 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 Chemistry Introductory Engineering IS Textile chemistry 1 Raw materials 1
Second year	Mathematics T1 pure and applied Physics G1 Textile physics 1 Textile chemistry 2 Woollen yarn production 1 or Staple fibre yarn manufacture 1 Worsted yarn production 1 or 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 or Staple fibre yarn manufacture 2 Worsted yarn production 2 or Staple fibre yarn manufacture 2 Loom study 2 Knitting 1 Cloth structure 2 Cloth analysis 2

SCHEMES OF STUDY

	Cloth finishing 1
	Cloth finishing 2
	Textile testing
Fourth year	Woollen yarn production 3 or Staple fibre yarn manufacture 3 Worsted yarn production 3 or Staple fibre yarn manufacture 3 Complex textiles or Knitting 2 Dyeing 1T Textile engineering 1 Textile engineering 2 Textile engineering 4 Mill management.
<i>Four-year scheme leading to the degree with Honours in textile chemistry</i>	
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 or Staple fibre yarn manufacture 1 Worsted yarn production 1 or 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 or Staple fibre yarn manufacture 2 Worsted yarn production 2 or Staple fibre yarn manufacture 2 Loom study 2 Knitting 1 Cloth structure 2 Textile calculations 1 Textile testing

*At the discretion of the head of the department of textile industries, Auxiliary mathematics may be substituted, in certain cases, for Mathematics Introductory.

TEXTILE INDUSTRIES

Fourth year	<p>Textile physics 2</p> <p>Woollen yarn production 3 or Staple fibre yarn manufacture 3</p> <p>Worsted yarn production 3 or Staple fibre yarn manufacture 3</p> <p>Complex textiles or Knitting 2</p> <p>Cloth analysis 2</p> <p>Cloth finishing 1</p> <p>Cloth finishing 2</p> <p>Dyeing 1T</p> <p>Textile engineering 1</p> <p>Textile engineering 2</p> <p>Textile engineering 4</p> <p>Mill management.</p>
<i>Four-year scheme leading to the degree with Honours in textile engineering</i>	
First year	<p>Mathematics Introductory</p> <p>Physics Introductory</p> <p>Chemistry Introductory</p> <p>Engineering IS</p> <p>Textile physics 1</p> <p>Textile chemistry 1</p> <p>Raw materials 1</p>
Second year	<p>Mathematics T1 pure and applied</p> <p>Engineering IIS</p> <p>Woollen yarn production 1 or Staple fibre yarn manufacture 1</p> <p>Worsted yarn production 1 or Staple fibre yarn manufacture 1</p> <p>Loom study 1</p>
Third year	<p>Textile physics 2</p> <p>Textile chemistry 2</p> <p>Cloth structure 1</p> <p>Textile calculations 1</p> <p>Cloth analysis 1</p> <p>Colour study 1</p> <p>Knitting 1</p> <p>Cloth finishing 1</p> <p>Cloth finishing 2</p> <p>Textile testing</p> <p>Textile engineering 4</p>
Fourth year	<p>Textile chemistry 3</p> <p>Woollen yarn production 2 or Staple fibre yarn manufacture 2</p>

SCHEMES OF STUDY

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 1†
 Textile engineering 1
 Textile engineering 2
 Textile engineering 3
 Textile engineering 4
 Textile engineering 5

Three-year scheme leading to the ordinary degree in textile industries (Old regulations)

First year	Three of the following: Mathematics Introductory* Physics Introductory Chemistry Introductory Engineering 1S Textile chemistry 1 Raw materials 1 Woollen yarn production 1 or Staple fibre yarn manufacture 1 Worsted yarn production 1 or Staple fibre yarn manufacture 1
Second year	Two of the following courses: Mathematics T1 pure and T1 applied Physics G1 Organic chemistry Go †Physical chemistry Gp Statistics and textile testing and Textile physics 1 Textile chemistry 2 Loom study 1 Knitting 1

*At the discretion of the head of the department of textile industries, Auxiliary mathematics may be substituted, in certain cases, for Mathematics Introductory. In these cases Mathematics T1 pure and T1 applied are excluded from the optional courses in the second year.

† In exceptional circumstances and with the approval of the head of the department of textile industries, Chemistry Gi may be substituted for Chemistry Gp.

TEXTILE INDUSTRIES

	Cloth structure 1
	Textile calculations 1
	Cloth analysis 1
	Colour study 1
	Textile testing
Third year	Textile chemistry 3
	Textile physics 2
	Woollen yarn production 2
	or Staple fibre yarn manufacture 2
	Woollen yarn production 3
	or Staple fibre yarn manufacture 3
	Worsted yarn production 2
	or Staple fibre yarn manufacture 2
	Worsted yarn production 3
	or Staple fibre yarn manufacture 3
	Loom study 2
	Cloth structure 2
	Complex textiles
	Cloth analysis 2
	Cloth finishing 1 and 2
	Dyeing 1T
	Textile engineering 1
	Textile engineering 2
	Textile engineering 4
	Mill management.
<i>Three-year scheme leading to the ordinary degree in textile industries</i>	
First year	Three of the following: Mathematics Introductory or Auxiliary mathematics Physics Introductory* Chemistry Introductory* Engineering IS and Textiles I
Second year	Statistics with Testing (includes 2 lectures a week in the department of mathematics) Fibre science I (Textile physics and Textile chemistry) Textiles II (Textile engineering and Technology)
Third year	Industrial management I Dyeing IT Fibre science II (Textile physics and Textile chemistry) Textiles III (Textile engineering and Technology)

At the end of the third year students will be required to present a thesis based on some approved textile research.

*Preliminary courses in physics and chemistry will be provided in the department of textile industries, if the departments concerned are unable to accept the students for the normal introductory courses.

SCHEMES OF STUDY

EXAMINATIONS

Second year	Textile physics Textile chemistry
Third year	Five papers (including 1 paper in Fibre science) Two practical examinations

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 342 and fol.

Scheme for the degree of Bachelor of Arts in textile management

Particulars of this scheme will be found on page 344.

Scheme for the degree of Bachelor of Commerce with textile industries as a principal subject

Particulars of this scheme will be found on pages 402 and 405 and fol.

COLOUR CHEMISTRY AND DYEING

Four-year scheme leading to the degree with Honours in colour chemistry

First year	Mathematics Introductory Physics Introductory Chemistry Introductory
Second year	Chemistry Gi Chemistry Go Chemistry Gp Dyeing 1 Laboratory course in dyeing 1 General textile technology
Third year	Dyeing 2 Dyeing 3 Colour chemistry 4 Engineering IS (lectures only) Cloth finishing 1 and 2 Practical cloth finishing (second term) Laboratory course in dyeing 2 Colour chemistry laboratory

COLOUR CHEMISTRY AND DYEING

Fourth year	Colour chemistry 5
	Colour chemistry 6
	Colour chemistry 7
	Colour chemistry 8
	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
	Chemistry Introductory
Second year	Chemistry Gi
	Chemistry Go
	Chemistry Gp
	Dyeing 1
	Laboratory course in dyeing 1
	General textile technology
Third year	Dyeing 2
	Dyeing 3
	Colour chemistry 4
	Engineering IS (lectures only)
	Cloth finishing 1 and 2
	Practical cloth finishing (second term)
	Laboratory course in dyeing 2

Candidates for the ordinary degree in dyeing will be required to translate into English a passage of French or German technical literature.

FOOD AND LEATHER SCIENCE

Candidates for the Honours degree scheme in food science will normally be expected to have passed chemistry, physics, and mathematics at advanced level in the General Certificate of Education. In addition it is necessary for the candidate to have reached a standard either justifying exemption from Chemistry Introductory or permitting the candidate to be excused Physics Introductory.

A limited number of candidates who have passed a biological subject at advanced level, in place of mathematics, may be admitted to the course, provided that they have reached a standard either justifying exemption from one of Chemistry Introductory, Zoology Introductory and Botany Introductory A or permitting the candidate to be excused Physics Introductory.

The Honours course cannot normally be completed in less than four years.

SCHEMES OF STUDY

Four-year scheme leading to the degree with Honours in food science

First year	Chemistry Introductory Physics Introductory Botany Introductory A or Zoology Introductory Mathematics Introductory or Statistics Introductory Food technology F1
Second year	Statistics Introductory (if not previously taken) Chemistry Go Chemistry Gp Bacteriology G1 Food technology F2
Third year	Biochemistry G1 Analytical chemistry and microscopy of natural products LF3 Physics and chemistry of natural products LF4
Fourth year	Physical and psychological properties of foodstuffs F5, or Agricultural bacteriology, including food bacteriology, taken in the department of agriculture Food processing and preservation F6 Chemistry and structure of foodstuffs F7 Individual study and practical work F8

The entry requirements for the course are such that no candidate will be required to take more than four courses in the first year. Candidates exempted or excused from Chemistry Introductory and Physics Introductory are advised to take Chemistry Go in their first year. Candidates exempted or excused from Chemistry Introductory, Physics Introductory and Mathematics Introductory are advised to take Chemistry Go and Statistics Introductory in their first year.

Three-year scheme leading to the ordinary degree in food science

The scheme of study will be the same as the first three years of the four-year scheme leading to the degree with Honours in food science, except that in the third year Biochemistry G1 will be replaced by Food processing and preservation F6, together with certain parts of individual study and practical work F8.

Four-year scheme leading to the degree with Honours in leather science

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 food and leather science.
Second year	Chemistry Go Chemistry Gi Chemistry Gp Technology of leather manufacture L2

LEATHER SCIENCE

- Third year Bacteriology L
 Analytical chemistry and microscopy of natural products LF₃
 Leather science laboratory work L₃
 Physics and chemistry of natural products LF₄
- Fourth year Physical behaviour of leathers L₅—parts 1 and 2
 Principles and methods of leather manufacture L₆
 Advanced physics and chemistry of leather manufacture L₇—
 parts 1 to 3
 Practical leather physics
 Individual study, laboratory work and practical leather
 manufacture L₈—parts 1 to 3.

Suitably qualified candidates who are exempted from the Introductory course in chemistry may take Chemistry Go in their first year and commence Leather science laboratory work on completion of their laboratory courses in chemistry.

Suitably qualified candidates who are excused Physics Introductory may take Bacteriology L in their first year.

Suitably qualified candidates who are exempted from Chemistry Introductory and excused Physics Introductory may be permitted to complete the above scheme in three years.

Three-year scheme leading to the ordinary degree in leather science

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 leather science.

- Third year Bacteriology L
 Analytical chemistry and microscopy of natural products LF₃
 Leather science laboratory work L₃ (for part of the session only)
 Physics and chemistry of natural products LF₄ (for part of
 the session only)
 Individual study, laboratory work and practical leather
 manufacture L₈, part 1
 Principles and methods of leather manufacture L₆
 Practical leather physics.

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 leather science by satisfactorily completing a further one-year course which may be arranged.

SCHEMES OF STUDY

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

EXAMINATIONS

First year	Botany Introductory—I paper and 1 practical examination Chemistry Introductory—I paper and 1 practical examination Zoology Introductory—I paper and 1 practical examination General economics—I paper
Second year	Agricultural botany 1—I paper and 1 practical examination Agricultural chemistry 2—I paper and 1 practical examination Animal physiology and veterinary science—I 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—I paper and 1 practical examination Agricultural chemistry 1—I paper and 1 practical examination.

Scheme of study leading to the degree of Bachelor of Science in general studies (Old regulations)

The scheme may include one or more 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.

*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) Biochemistry G2B 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.
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* No candidates will be admitted into this scheme after October, 1961.

† Candidates may be exempted from the practical part of the course.

SCHEMES OF STUDY

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)
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
Candidates will be required to pursue courses of study and to submit themselves to an examination consisting of

The structure and working of the economy	} 3 papers
Production, consumption and markets	
English economic history 1066-1914	
Principles of agriculture	2 papers
	1 paper

Second and third years

Candidates will be required to pursue courses of study and to submit themselves to examination in:

Economic theory	1 paper
Money and finance	1 paper
Economics of industry	} 1 paper
Economics of labour	
Economic statistics	1 paper
Recent economic history	1 paper
Management economics 2	1 paper
Farm organisation and management	1 paper

* Agricultural botany G1 and G2 are given in alternate years.

AGRICULTURE

Candidates will be required also to pursue courses in agricultural economics in the second and third years but will be examined on these courses at the end of the fourth year.

Candidates will also be required to attend economics seminars throughout the second and third years.

Fourth year

Candidates will be required to continue their studies in agricultural economics and to submit themselves to an examination consisting of:

Agricultural economics	3 papers
Dissertation	

In the final year candidates will be required to pursue the course in Statistics DA1.

*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
Second and third years	† Zoology G1 and G2 Agricultural chemistry G1 ‡ Agricultural botany G1 Agricultural zoology G either ‡ Agricultural botany G2 or Agricultural chemistry G2
Fourth year	Agricultural zoology H (advanced) Statistics DA1 Dissertation

* No candidates will be admitted into this scheme after October, 1961.

† 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 T
- Elementary unit operations
- 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.

DIPLOMAS

Metallurgy Introductory
Metallurgy for students of mining
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 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:
 - Mining G2—applied geophysics (lectures, laboratory and field work)
 - Structural geology
 - Economic geology (mining)
 - Coalfield geology
 - Oilfield development
 - Statistics T.

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.

SCHEMES OF STUDY

- (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 | <p>Research, on which a thesis must be presented, and four courses of lectures and laboratory work selected from the following:</p> <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 | <p>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</p> |
|------------|---|

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
Third year	Textile testing (statistics) 1A
	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. Applied economics B
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.

DIPLOMAS

FOOD SCIENCE

The postgraduate diploma in food science

The scheme of study extends over one or two years and is primarily intended for Bachelors of Science who have graduated in pure science or chemical engineering and for non-graduates whose qualifications have been accepted by the Senate in place of a degree.

Individual schemes of study will be determined in relation to the qualifications of the candidates and will include some or all of the following:

1. Preliminary training in food science selected from the scheme leading to the degree of Bachelor of Science with Honours, with additional work in pure science as required.
2. Advanced training in food science based on courses from the final year of the scheme leading to the degree of Bachelor of Science with Honours.
3. Further advanced study and research in food science or related fields.

LEATHER SCIENCE

The diploma in leather manufacture

The scheme of study which extends over three years will include:

First year	Chemistry Introductory Technology of leather manufacture L1 Introductory courses in two additional subjects.
Second year	Chemistry Go Technology of leather manufacture L2 Practical leather physics.
Third year	Analytical chemistry and microscopy of natural products LF3 Physics and chemistry of natural products LF4 (for part of session only) Principles and methods of leather manufacture L6 either Physics and chemistry of natural products LF4 (remainder of course) or one part selected from: Physical behaviour of leathers L5 parts 1 and 2 Advanced physics and chemistry of leather manufacture— L7, parts 1-3

Part or the whole of Analytical chemistry and microscopy of natural products LF3 may be taken in the second year.

Further practical work based on leather science laboratory work L3 and individual study, laboratory work and practical leather manufacture L8 will be carried out in the second and third years.

In certain circumstances and on the recommendation of the head of the department the diploma may be awarded upon the completion of a scheme of study prescribed for the degree of Bachelor of Science in leather science.

SCHEMES OF STUDY

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 science

The scheme of study extends over one or two years and is primarily intended for Bachelors of Science who have graduated in pure science or 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 science selected from the scheme leading to the degree of Bachelor of Science with Honours, with additional work in pure science as required.
2. Advanced training in leather science based on courses from the final year of the scheme leading to the degree of Bachelor of Science with Honours.
3. Further advanced study and research in leather science 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
	Statistics and field experimentation
	Teaching method
	Colloquium
Second term	Farm classes
	Agriculture
	Farm management
	Agricultural economics
	Statistics and field experimentation
	Teaching method
Third term	Colloquium
	Farm classes
	Agriculture
	Farm management
	Agricultural economics
	Field experimentation
	Colloquium
	Farm classes

DIPLOMAS

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 Biochemistry G2B Statistics Agricultural botany Animal physiology and veterinary science
Second term	Agricultural bacteriology Biochemistry G2B Statistics
Third term	Agricultural bacteriology Biochemistry G2B

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 Biochemistry G2B, 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.

* This diploma is at present in abeyance

SCHEMES OF STUDY

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.

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.

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

DIPLOMAS

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.

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.

SCHEMES 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 489 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, 9
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 design and drawing	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
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
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
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 R consists of:

Strength of materials	II RM 1
Heat engines	II RM 2
Theory of machines	II RM 3
Fluid mechanics	II RM 4
Electronic engineering	II SE 2
Drawing and design	
Engineering laboratory	
and <i>either</i> A option:	
Electric power engineering	II SE 1
Theory and design of structures	II SC 1
and <i>one</i> of the following :	
Production engineering	II RM 5
Nuclear engineering	II RM 8
or B option:	
Production engineering	II RM 5

Engineering II consists of:

Strength of materials	II M 1
Heat engines	II M 2
Theory of machines	II M 3
Fluid mechanics	II M 4
Electronic engineering	II SE 2
Drawing and design	
Engineering laboratory	
and <i>either</i> A option:	
Electric power engineering	II SE 1
Theory and design of structures	II SC 1
and <i>one</i> of the following:	
Production engineering	II M 5
Nuclear engineering	II M 8
or B option:	
Production engineering	II M 5

Engineering III R consists of:

Strength of materials	III RM 1
Engineering thermodynamics	III RM 2
Engineering dynamics	III RM 3
Fluid mechanics	III RM 4
Drawing, design and graphics	III RM 6

COURSES

Engineering laboratory and <i>either</i>	
Engineering administration	III RM 5
or Nuclear engineering	III RM 8

Engineering III consists of:

Strength of materials	III M 1
Engineering dynamics	III M 3
Drawing, design and graphics	III M 6
Engineering laboratory and <i>either</i> A option	
Engineering thermodynamics	III M 2
Fluid mechanics	III M 4
or B option	
Engineering production and administration	III M 5

Engineering IV consists of:

Three of the following :

Solid mechanics (a) Elasticity	IV M1 A
(b) Plasticity	IV M1 B
(c) Surface contact	IV M1 C
Thermodynamics (a) Combustion	IV M2A
(b) Heat transfer	IV M2B
Engineering dynamics (a) Vibration theory	IV M3
(b) Control theory	IV SE8
Dynamics of fluids (a) Viscous flow	IV M4A
(b) Turbulent flow	IV M4B
(c) High speed flow	IV M4C
Planning and control of production	IV M 5

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	

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

*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 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
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.

* One subject may be replaced by a mechanical engineering subject with the approval of the head of the department.

COURSES

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
Electrical engineering	I SE
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
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: bending moment and shear force diagrams for loadings on statically determinate beams; analysis of statically determinate plane frameworks; elements of reinforced concrete design.

Surveying: basic principles and methods; chain surveying and traversing; levelling and contouring; tacheometry; setting out of civil engineering projects, including 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 1A

Bending moments and shearing forces for simple beams with moving loads; influence lines for simply supported beams and crosses; 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 1B

Statics and indeterminacy; deflections of framework and beams, analysis of statically indeterminate frameworks and beams; energy methods including the principle of virtual forces; Müller-Breslau's principle; the use of slope-deflection and elementary moment distribution in the analysis of continuous beams and portal frames.

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.

SURVEYING

II C 3

Plane table, hydrographic and tunnel surveys. Surveying instruments and their adjustment. Setting out transition curves and vertical curves.

FIELD SURVEYING

Practical field and drawing office work based on the content of the lectures in surveying outlined in II C 3 above.

COURSES

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, 9

Elementary theory of elasticity; compound stresses and strains; Mohr's circles of stress and strain; electrical and mechanical strain gauges; principles of strain energy; stresses in cylinders under internal pressure; torsion of circular shafts; coil and laminated springs; combined torsion and bending; shear stresses in beams; bending and torsion of asymmetric sections; elementary elastic instability; introduction to aircraft structures.

FLUID MECHANICS

II C 7

Further aspects of hydrostatics; Bernoulli's theorem, orifices, notches, weirs; Venturi meter and pipe orifices; viscosity and laminar flow in pipes, bearings and dashpots. Dimensional analysis: Buckingham's π -theorem, modelling, dynamical similarity.

Turbulent flow in pipes, water hammer, uniform flow in channels; turbines and pumps.

HIGHWAY ENGINEERING

II C 8

Road construction: location and survey, site investigation, cross-section drainage and earthwork quantities.

Traffic engineering: aims of design, factors affecting design, traffic surveys, capacity, layout and cross-section.

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

Design of structures in steel, masonry, reinforced and prestressed concrete, aluminium and timber; elastic and plastic methods.

Detailed design of structural members: welded connections, stiffeners, struts and laterally loaded columns. Gravity dams.

Analysis of statically indeterminate structures including building frames, arches, suspension bridges and space frames. Influence lines.

Computational methods including use of electronic digital computers.

PUBLIC HEALTH ENGINEERING

III C 2

Water supply 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.

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.

STRESS ANALYSIS

III C 6

Experimental stress analysis including brittle lacquers, photo-elasticity, model methods and measurements of dynamic strains; mathematical theory of elasticity and photo-elasticity; analogue methods; beams and plates on elastic foundations; elastic instability; dynamic stresses and fatigue; theories of failure and design.

HYDROLOGY AND WATER ENGINEERING

III C 7

Hydrology: precipitation, evapo-transpiration, run-off and subterranean water analysis of hydrographs; river characteristics; flood-routing and control; waves and tides; beach formation and control; hydraulic models.

COURSES

Water engineering: non-uniform flow in channels, water surface, profiles, turbulent boundary layer; channel controls, including Venturi flume, broad-crested weir, sluice gates; hydraulic jump and surge waves in channels, including types of surge wave and celerity of wave; water hammer, surge tanks; dimensional analysis of rotodynamic machines; pump and turbine selection; groundwater flow.

HIGHWAY ENGINEERING

III C 8

Road construction: mass haul curve, soil stabilisation, pavement design, concrete roads and flexible roads.

Traffic engineering: intersection design, vertical alignment, horizontal alignment, road lighting, parking 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. Shear distribution in, and shear 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, foundations, 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. Theory of machines.

ENGINEERING

Fluid mechanics: hydrostatics; elementary fluid dynamics; dynamics of turbines.

Engineering measurements.

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

Viscous flow. Dimensional analysis. Flow in pipes and open channels. Ideal fluid theory. Centrifugal and positive displacement pumps.

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

Ideal fluid theory. Aerofoil theory. Compressible flow. Boundary layer theory. Axial flow pumps and fans. Viscous flow and hydrodynamic lubrication.

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 II R and III R courses will cover selected topics from the corresponding Engineering II and III courses.

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 II

ELECTRIC POWER ENGINEERING

II E

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.

ENGINEERING

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.

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.

COURSES

ELECTRONIC 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 I consists of :

Mineral dressing practice	I a
Environmental conditions in mines	I b
Mining machinery	I c

Mining II consists of :

Methods of working stratified and unstratified deposits	II a
Mine ventilation, safety and rescue	II b
Transportation in mines	II c
Organisation and management in mines	II d

Mining III (for the ordinary degree course) consists of two of the following :

Strata control	III a 1
Transmission and utilisation of power in mines	III a 2
Mineral prospecting and valuation	III b 1
Rock mechanics	III b 2
Prospecting of oilfields	III c 1
Development of oilfields	III c 2

MINING

Principles of mineral dressing	III d 1
Plant performance	III d 2
Mining III (for the Honours degree course) consists of four of the following :	
Strata control	III a 1
Transmission and utilisation of power in mines	III a 2
Mineral prospecting and valuation	III b 1
Rock mechanics	III b 2
Prospecting of oilfields	III c 1
Development of oilfields	III c 2
Principles of mineral dressing	III d 1
Plant performance	III d 2
MINERAL DRESSING PRACTICE	I a
Second or 3rd years; 1 hour a week.	
Scope and economics of mineral dressing; comminution; industrial sizing; concentrating processes; auxiliary operations; applications.	
ENVIRONMENTAL CONDITIONS IN MINES	I b
Second or 3rd years; 1 hour a week.	
Pollution of air by gases and dusts; deep and hot mines; lighting in mines.	
MINING MACHINERY	I c
Second or 3rd years; 1 hour a week.	
Classification and mechanisms; machines for development, extraction and transportation.	
METHODS OF WORKING STRATIFIED AND UNSTRATIFIED DEPOSITS	II a
Third or 4th years; 2 hours a week.	
Development of coal and metalliferous fields; shaft sinking, working coal and other stratified deposits; working unstratified deposits; quarrying; opencast and alluvial deposits.	
MINE VENTILATION, SAFETY AND RESCUE	II b
Third or 4th years; 2 hours a week.	
Principles and practice of mine ventilation; rescue organisation; underground fires; explosions; inundations.	
TRANSPORTATION IN MINES	II c
Third or 4th years; 2 hours a week.	
Winding systems for shafts and drifts; surface and underground haulage; pumping.	
ORGANISATION AND MANAGEMENT IN MINES	II d
Third or 4th years; 1 hour a week.	
Structures of management; principles of scientific management; supervision; financial procedure; safety organisation; town and country planning.	

COURSES

STRATA CONTROL

III a 1

Third or 4th years; 1 hour a week.

Rock behaviour in coal measure strata; support; surface subsidence; surface protection.

TRANSMISSION AND UTILISATION OF POWER IN MINES

III a 2

Third or 4th years; 1 hour a week.

Electrical, compressed air and hydraulic systems in mines; control of coal face equipment; signalling.

MINERAL PROSPECTING AND VALUATION

III b 1

Third or 4th years; 1 hour a week.

Mineral reserves; prospecting; sampling; mine examination; markets; valuation; capital requirements.

ROCK MECHANICS

III b 2

Third or 4th years; 1 hour a week.

Mechanical properties of rock, rock failure; stresses around mine openings; rock bursts.

PROSPECTING OF OILFIELDS

III c 1

Third or 4th years; 1 hour a week.

Geophysical exploration; well logging and sampling; correlation.

DEVELOPMENT OF OILFIELDS

III c 2

Third or 4th years; 1 hour a week.

Drilling equipment and methods; oil reservoirs; oil flow; primary and secondary oil recovery; reserves.

PRINCIPLES OF MINERAL DRESSING

III d 1

Third or 4th years; 1 hour a week.

Theory of comminution, sizing, concentration and thickening; flow sheet construction.

PLANT PERFORMANCE

III d 2

Third or 4th years; 1 hour a week.

Sampling; washability; efficiency; performance statements; control and economics.

SURVEYING

First year; 2 hours a week.

Instruments; triangulations; traversing; tacheometry; levelling; setting out; photogrammetry; standards; computation and adjustment.

MINE SURVEYING

Second or 3rd years; 2 hours a week.

Theory of errors; mining plans; survey correlation; astronomical surveying; underground traversing and levelling; detail surveying; borehole surveys; computations.

MINING

For the degree of Bachelor of Science in general studies

MINING G₁ (MINE SURVEYING)

Two lectures and 6 hours drawing office work a week.
Principles of mine surveying.

MINING G₂ (APPLIED GEOPHYSICS)

Two lectures and 6 hours practical work a week.
The principles and application of geophysics in investigations of geological structures.

MINING G₃ (MINERAL DRESSING)

Two lectures and 6 hours practical work a week.
The principles of mineral dressing and coal preparation.

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.

COURSES

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; 1 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. *Non-metallic materials*. 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 2 hours.

FUEL SCIENCE 1

First year; 1 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; 1 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; 1 hour 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; 1 hour a week (2 terms only).

The physical properties of fluids in relation to industrial practice.

Examination: 1 paper of 2 hours.

* This course will be supplemented from time to time by additional lectures on recent developments in the petroleum industry by visiting lecturers.

FUEL SCIENCE 3

Third and 4th years; 2 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; 1 hour a week (2 terms only).

The chemical kinetics and thermodynamics of reactions involved in the utilisation of fuel and in allied processes.

Examination: 1 paper of 2 hours.

FUEL SCIENCE 5

Fourth year; 1 hour a week.

Fundamental physical and chemical aspects of flame and combustion in gases. Solid and liquid propellants.

Examination: 1 paper of 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 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 2 hours.

FUEL SCIENCE 7

Fourth year; 1 hour a week.

The physical properties of petroleum and its products in relation to their utilisation.

Examination: 1 paper of 2 hours.

PROCESS INSTRUMENTATION 1

Second or 3rd years; 1 hour a week

Theoretical principles and design of instruments for the measurement of process operating variables, temperature, pressure, flow, gas analysis, etc.

Examination: 1 paper of 2 hours.

COURSES

PROCESS INSTRUMENTATION 2

Third or 4th years; 1 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.

POWER THERMODYNAMICS

First year; 1 hour a week.

A basic course for chemical engineers dealing with energy conversions and thermodynamic properties.

Examination: 1 paper of 1½ hours.

CHEMICAL PROCESS PRINCIPLES (formerly chemical engineering 4)

First year; 2 hours a week.

Elementary chemical engineering principles illustrated with reference to the chemical industry.

Examination: 1 paper of 3 hours.

HEAT TRANSFER (formerly chemical engineering 3a)

Second or 3rd year; 1 hour a week.

A study of heat transfer and heat transfer equipment.

Examination: 1 paper of 1½ hours.

ELEMENTARY UNIT OPERATIONS (formerly chemical engineering 1a)

Second or 3rd year; 1 hour a week.

A study of unit operations of chemical engineering.

Examination: 1 paper of 1½ hours.

ADVANCED HEAT TRANSFER (formerly chemical engineering 3b)

Third or 4th year; 2 hours a week.

An advanced study of the transfer of heat in chemical processes.

Examination: 1 paper of 3 hours.

FLUID MECHANICS

Second or 3rd year; 1 hour a week.

Elementary theory of the flow of fluids in channels and pipes. Properties of pumps, valves and meters. Flow through granular beds.

Examination: 1 paper of 1½ hours.

ADVANCED FLUID MECHANICS (formerly chemical engineering 3)

Third or 4th years; 1 hour a week.

Fluid dynamics relating to processes within the chemical industry.

Examination: 1 paper of 1½ hours.

HOULDSWORTH SCHOOL

CHEMICAL ENGINEERING (formerly chemical engineering 1b and 2, and research principles)

Third or 4th years; 7 hours a week.

Advanced unit operations, diffusional processes, chemical reactor design, particle dynamics, materials of construction, chemical plant organisation.

Examination: 3 papers of 3 hours.

CHEMICAL ENGINEERING DESIGN

Third and 4th years; 12 hours a week for the 2nd term.

Tutored calculation and drawing course involving the design of a number of units of industrial chemical equipment.

PROCESS INSTRUMENTATION 3

Second or 3rd years; 1 hour a week.

For general fuel and metallurgy students and others.

An introduction to the measurement and automatic control of process variables.

Examination: 1 paper of 1½ hours.

CERAMICS INTRODUCTORY

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 1½ hours.

For the degree of Bachelor of Science with Honours

CERAMICS 1

Second year; 2 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; 1 hour a week.

An introduction to non-metallic materials of construction, with particular reference to their use in 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.

COURSES

CERAMICS 2 (CERAMICS FOR THE FUEL INDUSTRIES)

Third or 4th years; 1 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 1½ hours.

CERAMICS 3 (CERAMICS FOR METALLURGISTS)

Third or 4th years; 1 hour a week.

Part 1. A study of the manufacture, constitution, properties and application of the refractory materials used in the metallurgical industries.

Part 2. An appreciation of oxide and other pure ceramics of importance to metallurgists.

Examination: 1 paper of 1½ hours.

CERAMICS 4 (BASIC CHEMISTRY AND PHYSICS OF CERAMICS)

Third year; 2 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; 1 hour a week.

The structures of silicates and related minerals of interest in ceramics.

Examination: 1 paper of 1½ hours.

CERAMICS 7 (PROCESS CERAMICS)

Third year; 1 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 1½ hours.

CERAMICS 10 (PHYSICS OF NON-METALLIC SOLIDS)

Fourth year; 1 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; 1 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. Measure-

ment 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; 1 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; 1 hour a week.

A parallel course to Ceramics 12 dealing with the science and technology of heavy clayware.

CERAMICS 14 (REFRACTORY MATERIALS)

Fourth year; 1 hour a week.

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; 1 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; 1 hour a week.

Oxides, carbides, carbon, silicides, borides, nitrides, cermets, ceramic coatings, etc., for rocket, nuclear reactor and other applications.

METALLURGY FOR ENGINEERS

First year; 1 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 except students of metallurgy.

Examination: 1 paper of 1½ hours.

METALLURGY FOR STUDENTS OF MINING

First or 2nd year; 1 hour a week.

A general review of extraction metallurgy, the properties of metals and alloys, the applications of metals and alloys in mining engineering.

Examination: 1 paper of 1½ hours.

COURSES

GENERAL METALLURGY

First year; 1 hour a week (for students of metallurgy, physics and chemistry).
Equilibrium diagrams, the microstructure of metals and alloys, diffusion, founding, forming, corrosion.

INTRODUCTORY PHYSICAL METALLURGY

Three hours a week. An introductory course for students of physics and chemistry.

General metallurgy; physical metallurgy; commercial alloys.

Laboratory class; 3 hours a week for 2 terms.

Examination: 1 paper and a practical examination.

METALLURGY 3E

Second and 3rd years; 3 hours a week (for students of civil engineering).

Physical metallurgy; commercial alloys; metal forming.

Laboratory class: 3 hours a week for 2 terms.

Examination: 1 paper and a practical examination.

PHYSICAL METALLURGY

Second year; 1 hour a week (for students of metallurgy, physics, chemistry and civil engineering).

Elementary discussion of crystal structures including imperfections, physical and mechanical properties of metals and alloys, phase transformations.

EXTRACTION METALLURGY

Second year; 1 hour a week.

Mineral formation and unit processes in mineral dressing; metal extraction processes including pyrometallurgical, electrochemical and distillation techniques.

METALLURGICAL THERMOCHEMISTRY

Third year; 1 hour a week (Honours degree students only).

Application of thermodynamic principles to homogeneous and heterogeneous equilibria between gases, liquids and solids with particular reference to metallurgical extraction processes.

ALLOY THERMODYNAMICS

Third year; 1 hour a week (Honours degree students only).

Entropy and disorder, free energy, vacancies in metals, order disorder transformations. Equilibrium diagrams, activity and fugacity coefficients of regular solutions. Experimental methods for determining the thermodynamic functions of solutions.

ELEMENTS OF QUANTUM MECHANICS

Third year; 1 hour a week for 1½ terms (Honours degree students only).

Classical theory of waves, wave properties of matter. Schrödinger's equation.

Periodic classification of the elements.

CRYSTALLOGRAPHY

Third year; 1 hour a week (Honours degree students only).

Crystal symmetry, projections, lattice transformations. X-ray and electron diffraction and their application to metallurgical structures.

COMMERCIAL ALLOYS

Third year; 1 hour a week (for students of metallurgy, physics, chemistry and civil engineering).

The bulk properties of metallic elements with reference to their position in the periodic table. Mechanical, chemical and electrical properties of commercial alloys.

CORROSION

Third year; 1 hour a week for 1½ terms (Honours and ordinary degree students). Oxidation of metals, electrolytic corrosion, methods of protection.

PRODUCTION OF IRON AND STEEL (O)

Third year; 1 hour a week (Ordinary degree students only).

Review of established iron and steel making processes and their interdependence.

New developments and new processes for iron and steel making.

MECHANICAL PROPERTIES OF ALLOYS (O)

Third year; 1 hour a week for 1½ terms (Ordinary degree students only).

Application of elementary dislocation theory to work hardening, ductile and brittle fracture, creep and fatigue.

PRODUCTION OF IRON AND STEEL 1

Third year; 1 hour a week (Honours degree students only).

Review of established iron and steel making processes and their interdependence. Chemistry of iron making in the blast furnace. Chemistry of steel making.

METALLURGICAL ECONOMICS

Third year; 1 lecture a week for 1½ terms (Ordinary degree students only).

Economic factors influencing the cost of metals and metallurgical operations.

ELECTRONS IN SOLIDS

Fourth year; 1 hour a week (Honours degree students only).

Motion of electrons in a periodic potential. Metals, insulators and semiconductors. Cohesion of metals. Brillouin zones. Determination of the Fermi surface.

CRYSTAL PHYSICS

Fourth year; 1 hour a week (Honours degree students only).

Cartesian tensors of second and fourth order and their application to thermal and electrical conductivity of crystals. Elasticity of crystals. Influence of high energy radiation on crystals.

COURSES

STRUCTURE OF ALLOYS

Third or 4th year; 1 hour a week (Honours and ordinary degree students).
Phase transformations in the solid state, special features of iron carbon alloys.

Recovery, polygonisation and recrystallisation. Structure of grain boundaries.
Metallography of complex alloys.

MECHANICAL PROPERTIES OF ALLOYS (H)

Fourth year; 1 hour a week (Honours degree students only).

Dislocation theory of plastic deformation and its application to work hardening, age hardening, brittle and ductile fracture, creep and fatigue in metals and alloys. Internal friction.

PRODUCTION OF IRON AND STEEL 2

Fourth year; 1 hour a week (Honours degree students only).

Recent developments in iron and steel making. Vacuum treatment of steel.
Historical background and possible future developments in the iron and steel industry.

METAL FORMING

Third or 4th year; 1 hour a week (Honours and ordinary degree students).
Yield criteria, ideally plastic materials, forging, extrusion, wire drawing and rolling of metals.

METAL FOUNDED

Third or 4th year; 1 hour a week (Honours and ordinary degree students).
The solidification of metals, segregation in alloys. The cast form and the design of castings, techniques for the manufacture of castings, moulding materials, the detection, prevention and significance of casting defects; special foundry techniques.

METAL JOINING

Third or 4th year; 1 hour a week for 1½ terms (Honours and ordinary degree students).

Soldering, brazing and welding of metals. Metallurgical problems of rivetting and bolting. The use of adhesives.

INDUSTRIAL PRACTICE

Third or 4th year; 1 hour a week for 1½ terms (Honours and ordinary degree students).

Survey of industrial practices with particular reference to the functions of the metallurgical graduate.

NON-METALLIC MATERIALS

Third or 4th year; 1 hour a week (Honours and ordinary degree students).
A series of lectures to be given by specialists on materials which may either replace or be used in conjunction with metals.

TEXTILE INDUSTRIES

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 I

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.

FIBRE SCIENCE I and II.

Textile Physics

Second year; 3 lectures a week, covering 1 (a,b), 2 and 3 (a,b).
Practical, 2 hours a week.

Third year; 3 lectures a week, 1 for 4 and 2 for 5.
Practical, 2 hours a week

1. (a) Vibrations, mechanical and electrical, with damping and resonance. Interference
(b) Production and dissipation of static electricity. Electrical resistance of poor conductors. Dielectrics and polarization. Basic a.c. theory.
2. Hygrometry and moisture relations of fibres. Heat of wetting. Swelling. Physical basis of diffusion. Heat conduction. Elements of thermodynamics. Energy distribution in the spectrum. Infra-red absorption.
3. (a) Reflection of light in non-planar and imperfectly smooth surfaces. Lustre. Colour and colour perception. Relation of refractive index to molecular structure. Birefringence. Transmission of light through uniaxial crystal plates. Dichroism.

- (b) Light microscopy in considerable detail. Elements of phase and interference microscopy. The electron microscope.
4. Mechanical properties of fibres in extension, bending and torsion. Energy considerations. Time effects and visco-elasticity. Photo-elasticity in fibres. Friction (modern developments).
 5. Physical methods of determining fibre structure, with details of the application of X-ray diffraction, optics, infra-red absorption, and the electron microscope. Detailed discussion of the structure of the principal natural and man-made fibres in the light of such investigations, and the correlation of structure with physical properties.

Textile Chemistry

Second year; 2 lectures a week. Practical, 5 hours a week.

Third year; 3 lectures a week. Practical, 3 hours a week.

1. *Organic chemistry*. Aliphatic and aromatic hydrocarbons and their derivatives. Oils, fats and waxes. Soaps and surface-active agents. Heterocyclic compounds. Organic chemistry of sulphur, silicon and phosphorus. Organo-metallic compounds.
2. *Physical chemistry*. First and second laws of thermodynamics; solutions; electrolytes; reactions and equilibria.
Rate processes, orders of reaction; activation; collision and transition state theory; catalysis; chain reactions; diffusion.
Absorption phenomena; colloids and emulsions.
3. *Naturally-occurring macromolecules*. Polysaccharides, proteins and rubber; methods used in producing regenerated fibres.
4. *Synthetic high polymers*. Polymerisation processes; determination of molecular weights; methods used in producing synthetic fibres.
5. *The chemical technology of textile processes*.

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 12 to 1 and practical classes Tuesday 10 to 12 for students studying for the diploma in textile industries.

Fundamental concepts of thermodynamics. Kinetic interpretation of the equivalence of heat and dynamic energy. Gaseous, liquid and solid states of matter; crystals.

Wave nature of radiation. Interference and diffraction phenomena. X-rays. Phase contrast and interference microscopes. Polarised light. Double refraction and birefringence. Electron microscope. Infra-red absorption.

TEXTILE PHYSICS 3A

Third year; Wednesday 9 to 10.

Linear polymers—their shape, size and modes of aggregation; fine fibrillar structure. Surface morphology. Details of some physical methods of investigating fibre structure.

Physical properties of fibres in terms of their structure.

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.

Free radical addition polymerisation. Kinetics and mechanism of the polymerisation of acrylonitrile. Emulsion and suspension of polymerisation. Copolymerisation. Orlon, acrilan, vinyon, rhovyl. Stereospecific heterogeneous anionic polymerisation of propylene. Condensation polymerisation. Kinetics, mechanism, and molecular weight distribution in polyester and polyamide formation. Nylon, perlon and 'Terylene'. Urea-formaldehyde, melamine-formaldehyde, and silicone condensation polymerisations. THPC incorporation. Methods of determining polymer molecular weights and the reliability of the results. Research methods in polymer chemistry.

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.

COURSES

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 Ambler 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.

COURSES

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 11 to 12.

An introductory course for Textile engineering 5, covering the knowledge of the quantitative approximations necessary to apply the textile principles already studied to the practical design of textile machines. Psychrometric control and the principles of heat and mass transfer involved in finishing.

TEXTILE ENGINEERING 4

Third year; Friday 4 to 5.

Theory and practice of automatic process control. Two-position, floating, proportional, and integral modes of control. Addition of derivative functions. Use of mechanical, electrical, pneumatic, and hydraulic control units. Stability criteria for automatic control systems.

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, dived 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.

COURSES

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.

General description of the hosiery industry and range of knitted fabrics. Fundamental properties and geometry of plain knit fabrics; quality control; stitch length control methods; shrinkage of knitted fabrics. Fundamentals of weft and warp knitting mechanisms; knitting elements; plain and rib machines; variants of plain and rib structures; general principles of patterning including tuck stitch, transfer stitch, float stitch and accordeon patterning methods. Detailed study of selected weft knitting machines.

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.

Detailed study of warp knitted constructions and selected warp knitting machines. More detailed consideration of the geometry of plain knit fabrics and application of control methods. Knitting of textured yarns. Detailed study of selected weft knitting machines including practical work on these machines in the knitting laboratory.

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 INDUSTRIES

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.

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.

COURSES

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; calendering; berling 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—STATISTICS 1A

Thursdays 9 to 10 throughout the session for diploma students.

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.

COURSES

TEXTILE TESTING

Physical Testing—Methods

Second and 3rd years; Tuesday 3 to 4, for degree students.

As for Textile testing 1A with appropriate extensions.

Physical Testing—Statistics

Second and 3rd years; Thursday 9 to 10.

As listed under Physical Testing—Statistics 1A with appropriate extensions.

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. 411.

COLOUR CHEMISTRY AND DYEING

For the ordinary degree of Bachelor of Science and for the degree of Bachelor of Science with Honours in colour chemistry

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 protein fibres.

Examination: 1 paper of 1½ hours in December and June.

COLOUR CHEMISTRY

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 natural and regenerated cellulosic fibres, cellulose acetates, 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; 1st 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; 7 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; 25 hours a week at times to be arranged.

[First term and part of 3rd term only for candidates for the degree with Honours.]

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: 2 days practical examinations in June.

For the degree of Bachelor of Science with Honours 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.

COURSES

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. Four 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); 25 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); 30 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); 30 hours a week at times to be arranged.

Preparation and testing of pigments. Instrumental methods of colour measurement.

Examination: 3 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.

FOOD AND LEATHER SCIENCE

For the ordinary degree of Bachelor of Science, and for the degree of Bachelor of Science with Honours in food science

FOOD TECHNOLOGY F₁

First year; Monday and Friday, 10 to 11, Saturday 9 to 10.

The nature of the world's food supplies, their classification, and their relationship to population. The different branches of the food industry, their organisation and their principal processes.

Examination: 1 paper.

FOOD TECHNOLOGY F₂

Second year; Tuesday 11 to 12.

The range of food products and their composition. The development of food legislation, its enforcement, and the special problems of food additives.

Examination: 1 paper.

ANALYTICAL CHEMISTRY AND MICROSCOPY OF NATURAL PRODUCTS
LF₃

Third year; Monday 10 to 11, Tuesday and Thursday, 12 to 1; 6 hours a week laboratory work.

The principles of analysis (gravimetric, volumetric, colorimetric) applied to natural products. Sampling. Modern techniques of analysis. The use of the light microscope in the examination of natural products. Staining techniques, phase contrast microscopy.

Examination: 1 paper.

PHYSICS AND CHEMISTRY OF NATURAL PRODUCTS LF₄

Third year; Monday, Wednesday and Friday, 9 to 10; tutorials, Tuesday and Thursday, 9 to 11.

Water, aqueous solutions, proteins and enzymes, carbohydrates and fats. Colloid science. Basic principles of corrosion.

Examination: 1 paper.

FOOD PROCESSING AND PRESERVATION F₆

Third or fourth year; Monday, Wednesday and Friday, 12 to 1.

The relations between processing, microbiological conditions, nutritive value, chemical composition, texture and acceptability, illustrated by the principal means for preserving foods and preparing them for the market.

Examination: 1 paper.

For the degree of Bachelor of Science with Honours in food science

PHYSICAL AND PSYCHOLOGICAL PROPERTIES OF FOODSTUFFS F₅

Fourth year; 2 hours a week at times to be arranged.

The physical properties of importance in food manufacture and use. The relation of physical tests to food assessment and food acceptance. (In collaboration with the department of psychology).

Examination: 1 paper.

COURSES

CHEMISTRY AND STRUCTURE OF FOODSTUFFS F7

Fourth year; 3 hours a week at times to be arranged.

Part 1—Morphology of food constituents.

Part 2—Continuation of LF4: physics and chemistry of proteins, carbohydrates and fats. Colloid science.

Part 3—Chemistry of polyphenols, natural and synthetic colours and flavours, and related topics.

Examination: 1 paper. In addition, one paper with a selection of questions from F5 (and the alternative, Agricultural bacteriology) F6 and F7.

INDIVIDUAL STUDY AND PRACTICAL WORK F8

Fourth year of the Honours course.

- (i) A selection of experiments in the advanced laboratory: 6 hours a week for two terms, or three hours a week for two terms if alternative course in Agricultural bacteriology with Food bacteriology is taken.
- (ii) A more extended experimental investigation: 6 hours a week for one term.
- (iii) Advanced study leading to the preparation of a dissertation in a limited field: 6 hours a week for one term.

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, elementary scientific principles of leather manufacture.

Examination: 1 paper.

TECHNOLOGY OF LEATHER MANUFACTURE L2

Second year; Tuesday and Thursday 11 to 12.

Further consideration of tanning processes, post-tanning processes, use problems.

Examination: 1 paper.

ANALYTICAL CHEMISTRY AND MICROSCOPY OF NATURAL PRODUCTS LF3

Third year; Monday 10 to 11, Tuesday and Thursday 12 to 1, 6 hours a week laboratory work.

The principles of analysis (volumetric, colorimetric, gravimetric) applied to natural products.

Sampling. Modern techniques of analysis. The use of the light microscope in the examination of natural products. Staining techniques. Phase contrast microscopy.

Examination: 1 paper

FOOD AND LEATHER SCIENCE

PHYSICS AND CHEMISTRY OF NATURAL PRODUCTS LF4

Third year; Monday, Wednesday and Friday, 9 to 10; tutorials, Tuesday and Thursday, 9 to 11.

Water, aqueous solutions, fats, carbohydrates, proteins, colloid science, metallic tannages.

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 SCIENCE LABORATORY WORK L3

Second or 3rd years; 6 hours a week at times to be arranged.

Laboratory work relating to tannery processes.

PRACTICAL LEATHER PHYSICS

Second, 3rd or 4th years; Wednesday 11 to 1.

Experimental determination of the mechanical and other physical properties of leather.

INDIVIDUAL STUDY, LABORATORY WORK AND PRACTICAL LEATHER MANUFACTURE L8—parts 1 to 3

Third and 4th years; at times to be arranged.

Part 1. A selection of experiments in the advanced laboratory.

Part 2. A more extended experimental investigation.

Part 3. Advanced study leading to the preparation of a dissertation in a limited field.

For the degree of Bachelor of Science with Honours in leather science and for the diploma in leather manufacture

PHYSICAL BEHAVIOUR OF LEATHERS L5—parts 1 and 2

Third or 4th year; 2 hours a week at times to be arranged.

The physical properties of skin, leathers and substitute materials.

Examination: 1 paper.

ADVANCED CHEMISTRY OF LEATHER MANUFACTURE L7—parts 1 to 3

Third or 4th year; at times to be arranged

Fundamental chemistry of materials and processes in leather manufacture.

Examination: 1 paper. In addition, 1 paper with a selection of questions from L5, L6 and L7.

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.

COURSES

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.

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.

AGRICULTURE

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.

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.

ANIMAL PHYSIOLOGY AND 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.]

COURSES

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.

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.

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.

AGRICULTURE

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.

AGRICULTURAL ECONOMICS (ADVANCED)

Fourth year; At times to be arranged.

Production and distribution of agricultural income. Economics of farm management. Land economics. Advanced marketing.

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 H (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.

COURSES

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.

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.

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

[IMPORTANT NOTICE: *Consideration is being given to certain revisions of the Ordinance and regulations for the degrees of Bachelor of Medicine and Bachelor of Surgery, to take effect from October, 1962. Recommendations have been made which, if approved, will have the effect of increasing the period of study of the subjects of the second M.B., Ch.B. examination from five to six terms with a consequent shift of the second M.B., Ch.B. examination from March to June.*]

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.

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 576.]

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.

DOCTOR OF PHILOSOPHY

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 579.]

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 283 and 293.]

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 580.]

REGULATIONS

FOR DEGREES, DIPLOMAS AND CERTIFICATES IN MEDICINE AND SURGERY AND NURSING

THE DEGREES OF BACHELOR OF MEDICINE AND BACHELOR OF SURGERY

[IMPORTANT NOTICE: *Consideration is being given to certain revisions of the Ordinance and regulations for the degrees of Bachelor of Medicine and Bachelor of Surgery, to take effect from October, 1962. Recommendations have been made which, if approved, will have the effect of increasing the period of study of the subjects of the second M.B., Ch.B. examination from five to six terms with a consequent shift of the second M.B., Ch.B. examination from March to June.*]

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

* 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.

- (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.

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.

* 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.

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.

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

* Parts 1 and 2 in December, part 1 (re-examination) in March, part 2 (re-examination) in June.

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;

(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.*

* Before making application to the Board of the Faculty of Medicine, such graduate are advised to consult the professor of surgery.

He must submit:

- (a) Documentary evidence that for at least three years since taking the degrees of Bachelor of Medicine and Bachelor of Surgery he has held appropriate training appointments in surgery at a recognised teaching hospital or similar institution and that he has acquired a satisfactory knowledge of the theoretical and practical aspects of surgery. Exceptionally, after consideration of the evidence submitted, the Board of the Faculty of Medicine may require an applicant to pass a qualifying examination in surgery which may be written, oral, clinical and practical.
- (b) The title of the proposed thesis or published work, accompanied by a short outline (not exceeding 500 words) of the proposed or actual scope of the work and of the methods involved.

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.
- (n) Radiation hazards.
- 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 two 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 March and June, 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 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
 - (iv) 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.

REGULATIONS

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 parts I and II of the examination must be submitted upon the prescribed form not later than the dates given below:

Part I 1 February or 1 May for the March and June examinations respectively

Part II 1 May or 1 November for the June and December examinations respectively.

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.

DIPLOMA IN NURSING

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.

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.

HEALTH VISITORS' CERTIFICATE OF THE ROYAL SOCIETY FOR THE PROMOTION OF HEALTH

A course of study lasting one academic year is organised by the University; every candidate for the course must produce evidence that she is either a state registered nurse on the general part of the Register or a state registered childrens' nurse, and has also passed the first examination of the Central Midwives' Board for England and Wales, Scotland, Eire or an Bord Altranais Eire, or the Joint Nursing and Midwives' Council for Northern Ireland, or that her name has been entered on the Roll of Midwives of the Central Midwives' Board for England and Wales, Scotland, Eire or Northern Ireland.

In the case of a candidate who has taken an approved course of integrated training, written evidence that she has completed the obstetric training included in the course must be submitted. Candidates must have obtained a General Certificate of Education or have attained a good standard of education.

Before admission to the examination a candidate must produce evidence in prescribed form that she has completed a course of training in public health work approved by the Ministry of Health lasting for at least six months.

The examination extends over a period of three days and consists of three written papers and an oral examination.

Each successful candidate who has complied with the regulations will be granted a certificate under the seal of the Royal Society of Health.

Detailed information about the course is available in the syllabus which may be obtained from the department of preventive medicine and public health, University of Leeds, 32 Hyde Terrace, Leeds 2.

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 three subjects:
Chemistry, physics and zoology.

7. The second examination shall consist of four parts:

Part 1 Anatomy, physiology

Part 2 Dental anatomy and physiology

Part 3 Dental mechanics and the properties of dental materials

Part 4 Chemistry and physics of dental materials.

8. Before presenting themselves for the second examination, candidates must have passed or been exempted from the first examination.

9. The third examination shall consist of three parts:

Part 1 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.

DEGREES

11. The final examination shall consist of three subjects:
Dental surgery
Clinical dental surgery including conservative dentistry, 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 590]

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 592]

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 283 and 293.]

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 1 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) Chemistry: lectures and laboratory work for three terms
- (b) Physics: lectures and laboratory work for three terms
- (c) Zoology: lectures and laboratory work for three terms.

6. The first examination will be held in June each year. It will include laboratory work in each of the subjects listed in regulation 5(a), (b) and (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 at a supplementary examination in September.

7. Exemptions may be granted as follows:

- (a) candidates who have passed at the advanced level in 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 passed at the advanced level in biology in a General Certificate of Education examination will be granted exemption from the course and examination in zoology of the first examination
- (c) candidates who hold qualifications deemed by the Senate to be equivalent to the above may also be granted exemption.

8. Candidates will not be allowed to proceed with the courses in anatomy and physiology and biochemistry until they have passed, or gained exemption from, the whole of the first examination.

9. Candidates for parts 1 and 2 of the second examination are required to have attended courses including lectures and practical work in: anatomy for three terms, and histology for two terms; physiology and biochemistry for three terms; dental anatomy and physiology for two terms; dental histology for two terms with laboratory instruction.

10. Parts 1 and 2 of the second examination will be held in June. Candidates who fail to satisfy the examiners may be permitted to present themselves for re-examination in September, but before doing so must pursue such further study as may be required by the Board of the Faculty of Medicine.

11. Candidates will not be allowed to proceed to their clinical studies until they have passed part 1 of the second examination.

12. Candidates for parts 3 and 4 of the second examination are required to have attended courses in chemistry and physics of dental materials for three terms; dental mechanics and properties of dental materials for three terms with laboratory instruction; dental prosthetics for one term; 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 3 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; conservative dentistry for two terms; periodontology for two terms; children's and preventive dentistry for two terms; orthodontics for two terms; law and ethics of dental practice for one term; general dental practice for one term; 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.

REGULATIONS

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 1, 2 and 3 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.

MASTER OF DENTAL SURGERY

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.

REGULATIONS

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 three subjects:

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) Chemistry: lectures and laboratory work for three terms
- (b) Physics: lectures and laboratory work for three terms
- (c) 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 43(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 at a supplementary examination in September.

45. Exemptions may be granted as follows:

- (a) candidates who have passed at the advanced level in 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 passed at advanced level in biology in a General Certificate of Education examination will be granted exemption from the course and examination in zoology of the first examination
- (c) candidates who hold qualifications deemed by the Senate to be equivalent to the above may also be granted exemption.

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.

47. The second examination shall consist of four parts:

Part 1 Anatomy, physiology

Part 2 Dental anatomy and physiology

Part 3 Dental mechanics and the properties of dental materials

Part 4 Chemistry and physics of dental materials.

48. Before presenting themselves for the second examination candidates must have passed or have been exempted from the first examination.

49. Candidates for parts 1 and 2 of the second examination are required to have attended courses including lectures and practical work: anatomy for three

terms, and histology for two terms; physiology and biochemistry for three terms; dental anatomy and physiology for two terms; dental histology for two terms with laboratory instruction.

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 1 of the second examination.

52. Candidates for parts 3 and 4 of the second examination are required to have attended courses in: chemistry and physics of dental materials for three terms; dental mechanics and 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 3 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.

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 conservative dentistry, oral surgery, orthodontics, radiology and prosthetics; and special pathology and bacteriology.

REGULATIONS

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; anaesthetics for one term; special pathology and bacteriology for two terms; conservative dentistry for two terms; periodontology for two terms; children's and preventive dentistry for two terms; orthodontics for two terms; law and ethics of dental practice for one term; general dental practice for one term; 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 2, 3 and 4 and in the individual subjects of part 1; in the third examination in parts 1 and 2 and in the individual subjects of part 3; and in the 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

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. The University has assumed responsibility throughout the extra-mural area 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 the examination shall have one opportunity to re-sit that examination at a later date.

THE EXTENSION ADVANCED CERTIFICATE

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

2. Candidates for an advanced certificate are required to join a university extension advanced course which meets for at least forty hours and to attend regularly (i.e. at least 75 per cent of the class meetings in each session) throughout the course. The advanced certificate will be awarded to students who have satisfied the examiners and have obtained satisfactory reports on class work and such other work as may have been required.

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

4. A candidate who fails in any paper or test in the examination shall be required to repeat the whole of the examination at any supplementary examina-

EXTENSION ADVANCED CERTIFICATE

tion, 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.

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.

SCHOLARSHIPS, FELLOWSHIPS AND PRIZES

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.

ENTRANCE SCHOLARSHIPS

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.

ENTRANCE SCHOLARSHIPS

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 annual value of £350 plus an allowance, not exceeding £20, for books. 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.

SCHOLARSHIPS, FELLOWSHIPS AND PRIZES

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 £340 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.

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.

ENTRANCE SCHOLARSHIPS

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.

ENTRANCE SCHOLARSHIPS

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.

SCHOLARSHIPS, FELLOWSHIPS AND PRIZES

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 620).

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 626).

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

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.

SENIOR SCHOLARSHIPS

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

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 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 619).

GRADUATE SCHOLARSHIPS

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

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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.

SCHOLARSHIPS, FELLOWSHIPS AND PRIZES

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.

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 Procter professor of food and leather science to a candidate who has graduated with Honours in the department of food and leather science or, exceptionally to some other suitably qualified graduate of the University of Leeds or of another approved 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 leather science in the University under the direction of the Procter professor of food and leather science.

6. Applications should reach the Registrar preferably not later than 30 June each year, but later applications may be considered.

Lawrence Ingle Scholarship

1. This scholarship was instituted in 1961 by Mr. Lawrence Ingle for the promotion of research in leather science.

GRADUATE SCHOLARSHIPS

2. The scholarship will normally have an annual value of £360 in addition to tuition fees.

3. The scholarship will be awarded by the Senate, on the recommendation of the Procter professor of food and leather science, to a candidate who has graduated with Honours in the department of food and leather science, or exceptionally to some other suitably qualified graduate of the University of Leeds or of another approved university.

4. The scholarship is tenable for one year in the first instance and may be renewed for one further year.

5. The scholar is required to pursue full-time research in leather science in the University under the direction of the Procter professor of food and leather science.

6. Limited assistance will be given to enable the scholar, on the recommendation of the Procter professor, to travel in furtherance of his studies.

7. 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.

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 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

FELLOWSHIPS

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 fellowship 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. Six fellowships have been instituted by Imperial Chemical Industries Ltd., for research in bacteriology, biochemistry, biomolecular structure, botany (plant biochemistry and biophysics), chemical engineering, chemistry, leather science, food science, chemotherapy, colour chemistry and dyeing, engineering (civil, electrical or mechanical), fuel and refractories, geology (including geochemistry), metallurgy, mining (selective flotation and geophysical surveying), pharmacology, physics, physiology, textile industries [chemistry of high polymers (keratin and man-made fibres), textile technology and textile engineering].

2. Appointments to these fellowships will take effect on 1 October. The normal tenure of a fellowship will be for 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 £800 and £1,100 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 who have already had experience of postgraduate research; other things being equal, preference will be given to candidates under twenty-eight years of age on taking up the appointment. There is a general expectation that all I.C.I. fellows should have obtained a Ph.D. degree or have had equivalent research experience and that the tenure of a fellowship should not normally be used for studying for a Ph.D. degree.

5. The fellowships are open to men and women.

6. 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.

FELLOWSHIPS

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 Procter professor of food and leather science. If no election to the fellowship be made in any year the income for that year shall be added to the capital fund.

6. The fellow will be required to devote the whole of his time to research on a subject pertaining to the leather or allied industries.

7. The results of his work must be presented as a report to the Senate and to the Procter fellowship committee.

8. Applications should be in the hands of the Registrar not later than 1 April each year.

S.A.T.R.A. Research Fellowship

1. The fellowship has been established by the British Boot, Shoe and Allied Trades Research Association for the encouragement of research in physics in relation to its problems.

2. The fellowship, normally of the annual value of £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 Procter professor of food and leather science in consultation with the Director of the Research Association.

5. The award will be made by the Senate on the recommendation of the Procter professor of food and leather science.

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 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.

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.

SCHOLARSHIPS, FELLOWSHIPS AND PRIZES

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 668.

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.

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.'

2. A prize of the value of £7 will be awarded annually.

**This award is in abeyance at present.*

PRIZES

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 1961-2 an essay may be submitted on one of the following subjects:

(a) Originality in the contemporary novel.

(b) Poetry in Commonwealth countries, with particular reference to one or two poets.

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.

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.

PRIZES

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.

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.

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.

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 £10, will be awarded annually by the Senate on the recommendation of the professor of physical chemistry to an undergraduate or to a student registered for a higher degree of the University for outstanding work in physical chemistry.
3. The prize shall not be awarded unless a sufficiently high standard is attained.

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.

PRIZES

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.

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 Dorman Long Prize
in civil engineering*

1. The Dorman Long prize was instituted in 1961 by Messrs. Dorman Long (Bridge and Engineering) Ltd., Middlesbrough.

2. The prize will be awarded to the student of civil engineering who, at the end of the final year course, is judged to show most promise in the design of steel structures.

3. The award will be made by the Senate annually on the recommendation of the head of the department of civil engineering, provided that 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.

PRIZES

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 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 leather science students in the Procter department of food and leather science 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 Procter professor of food and leather science 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 Procter professor of food and leather science 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.

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.

PRIZES

The Birkett Prize

1. The prize, of the value of about £3, is awarded annually after a report from the examiners on the results of 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 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.
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.

PRIZES

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 gynaecology

1. The prize was instituted in memory of Thomas Scattergood, M.R.C.S., the first Dean of the medical department in the Yorkshire College.

2. The value of the prize, which consists of books or instruments, is £5.

3. The prize is awarded annually on the results of an examination which is normally held in 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:

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.

PRIZES

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 Procter professor of food and leather science, has most successfully completed his studies in the department.

3. A student to whom the medal has been awarded will not be eligible for the award in a subsequent year.

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.

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 lecture-ship 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 combined 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.

GRANTS AND LOANS

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.

SCHOLARSHIPS, FELLOWSHIPS AND PRIZES

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.

GRANTS AND LOANS

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 two 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 668.

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. Successful applicants will be required to present a report on the results of the researches for which grants were awarded.
4. Applications for grants, giving details of the plan of the proposed research, may be sent to the secretary of the Institute at any time.

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.

HONORARY GRADUATES

JULY 1960—JUNE 1961

DOCTORS OF LAWS

- 1960 *Barker Thomas Clegg*
- 1961 Arthur Richard Baines
William Ernest Jones
The Rt. Hon. Robert Gordon Menzies
Sir Jeremy Raisman
Sir James Robertson

DOCTORS OF LETTERS

- 1961 Barbara Hepworth
The Rev. Norman Henry Snaith

DOCTORS OF SCIENCE

- 1961 Adolph Butenandt
Sir Ronald Fisher
Sir John Hammond
Charles Horner Greer Macafee

MASTER OF ARTS

- 1961 Martha Steinitz

GRADUATES

JULY 1960 — JUNE 1961

- Abbott, Antony Michael, B.Sc., with Honours in mechanical engineering, class II (ii), 1961
- Abraham, Sofaer Abraham, M.B., Ch.B., 1960
- Abrams, Christopher John, LL.B., with Honours, class II(i), 1961
- Ackroyd, Keith, B.Sc., with Honours in electrical engineering, class II(ii), 1961
- Addelman, Ronald, B.A., with Honours in French, class II(i), 1961
- Addenbrook, David Graham, B.Sc., with Honours in colour chemistry, class II(i), 1961
- Adjei, Irene Lillian, B.A., with Honours in history, class II(i), 1960
- Adley, Ernest George, B.A., with Honours in general studies, class II(i), 1961
- Addison, George David, B.Sc., with Honours in mining, class II(i), 1961
- Agnew, Andrew Rogers Young, B.Sc., 1961
- Alcott, Michael John, B.A., with Honours in English, class II(ii), 1961
- Aldred, Graham Joseph, B.Sc., with Honours in electrical engineering, class III, 1961
- Lawson, B.A., with Honours in general studies, class II(ii), 1961
- Alexander, John, B.Sc., 1961
- Allard, David, B.Sc., in general studies, 1961
- Allen, Daphne Joyce, B.A., with Honours in modern languages, class III, 1961
- John Kenneth, B.Sc., with Honours in chemistry, class II(i), 1961
- Michael John, B.Ch.D., 1961
- Robert Perrin, B.Sc., with Honours in chemical engineering, class III, 1961
- Allerton, Joan, B.Sc., with Honours in the chemistry of leather manufacture, class II(i), 1961
- Allington, Reginald Graham, B.A., with Honours in general studies, class III, 1961
- Alsop, Robert John, B.Sc., with Honours in botany, class III, 1961
- Amin, Hassan Mohamed, M.A., 1961
- Anah, Nathaniel Nwadike, LL.M. (*in absentia*), 1960
- Anderson, Elizabeth Petra, B.A., with Honours in English, class II(i), 1958; M.A., 1960
- Andrews, James Frederick, B.Sc., with Honours in biochemistry, class II(ii), 1961
- Ronald Keith, B.A., with Honours in Russian, class III, 1961
- Anson, Brian, B.Sc., with Honours in physics, class II(i), 1961
- Arme, Christopher, B.Sc., with Honours in zoology, class II(i), 1961
- Arnoll, Trevor Rawlinson, B.Sc., with Honours in gas engineering, class III, 1961
- Ashby, David George, B.A., with Honours in English, class II(i), 1961
- Ashcroft, Stanley John, B.Sc., with Honours in chemistry, class II(i), 1961
- Ashelford, David John, M.B., Ch.B., 1961
- Asher, Colin, B.A., with Honours in French, class II(i), 1961
- Ashton, Anthony Richard, B.Sc., with Honours in general studies, class II(ii), 1961
- Margaret, B.Sc., with Honours in mathematics, class II(ii), 1961
- Michael James, B.Sc., with Honours in general studies, class II(ii), 1957; Ph.D., 1960
- Winifred Diana, B.A., with Honours in general studies, 1947; B.Sc., with Honours in mathematics, class I, 1949; M.A., 1960
- Ashurst, Brian Warwick, B.A., with Honours in English, class II(i), 1961
- Aspland, John Richard, B.Sc., with Honours in colour chemistry, class II, 1958; M.Sc., 1960
- Atherton, Elaine, B.A., with Honours in general studies, class III, 1961
- Atkinson, Geoffrey Frederick, B.Ch.D., 1960
- Paul Dearsley, B.Ch.D., 1960
- Austen, Edward Harold, B.Sc., with Honours in electrical engineering, class III, 1961
- Badcock, William John, B.A., with Honours in modern languages, class II(ii), 1961
- Bailey, Ernest, B.Sc., with Honours in biochemistry, class I, 1961
- Norman Lewis, B.Sc., 1960
- William Fawcett, LL.B., with Honours, class II(i), 1961
- Bajpai, Lakshmi Shanker, Ph.D., 1960

GRADUATES

- Baker, Richard Denison, B.Sc., with Honours in agricultural studies, class II, 1957; M.Sc., 1960
- Ball, David John, B.Sc., with Honours in civil engineering, class II(i), 1961
- James Henry, B.A., with Honours in general studies, class II(ii), 1961
- Ballantyne, Bryan, M.B., Ch.B., 1961
- Bannister, Geoffrey Malcolm, B.Sc., with Honours in agricultural botany, class II(i), 1961
- Bapna, Hira Singh, B.Sc., 1961
- Barber, Harold Edward, B.Sc., with Honours in pharmacy, class II(ii), 1961
- Tennant George Wing, B.Sc., 1961
- Barge, Ian, B.A., with Honours in English, class II(i), 1961
- Barley, David Ronald, B.Sc., with Honours in mechanical engineering, class III, 1961
- Barnett, Alan Keith, B.A., with Honours in German, class II(ii), 1961
- Barnhurst, Margaret Ruth, B.A., with Honours in French, class II(ii), 1961
- Barr, Michael Ernest, B.Sc., with Honours in civil engineering, class III, 1961
- Barratt, Robert James Ian, B.Sc., with Honours in civil engineering, class II(i), 1961
- Barrow, Richard, B.Sc., 1961
- Barry, Michael Vincent, B.A., with Honours in English, class II(ii), 1958; M.A., 1960
- Barr-Young, Gavin Neil, LL.B., with Honours, class III, 1961
- Bartlett, Jill Avril, B.A., with Honours in modern languages, class II(ii), 1961
- Bartram, Wendy Phyllis, B.A., with Honours in English, class II(ii), 1961
- Bathgate, John, B.Sc., 1961
- Batty, David, B.Sc., with Honours in colour chemistry, class II(ii), 1961
- Michael, B.Sc., with Honours in mathematics, class I, 1961
- Bavey, Chrysogen Noel, B.A., with Honours in English, class II(ii), 1961
- Beal, Peter Richardson, B.Sc., 1961
- Beasley, Richard Alan, B.A., with Honours in modern languages, class II(ii), 1961
- Beatham, Anthony Francis, B.Sc., with Honours in civil engineering, class III, 1961
- Becka, Leopoldo Nahum, Ph.D. (*in absentia*), 1961
- Becker, Frank, B.Ch.D., 1961
- Beckham, Michael Anthony, B.Sc., with Honours in chemical engineering, class II(i), 1961
- Bedford, David James, B.Sc., 1961
- Belchamber, John Cedric, B.A., with Honours in German, class III, 1961
- Bell, Eric James, B.Sc., 1961
- John Robert, Ph.D., 1960
- Keith, B.Sc., with Honours in geology, class II(i), 1961
- Molly Elizabeth, B.A., with Honours in general studies, class III, 1961
- Belshaw, David John, LL.B., with Honours, class II(ii), 1961
- Benn, Nicholas, M.B., Ch.B., 1960
- Bennett, Ernest Walter, Ph.D., 1960
- Bentham, David, B.A., with Honours in economics, class II(ii), 1961
- Bernard, Eugene Edwin, Ph.D., 1960
- Berry, Colin Howard, B.Sc., with Honours in mechanical engineering, class II(ii), 1961
- Bessey, Alexander Leonard Frank, B.A., in special studies (modern languages), 1961
- Best, John Sheridan, B.Sc., with Honours in chemistry, class II(ii), 1961
- Betts, James, B.Sc., with Honours in chemistry, class I, 1957; Ph.D., 1961
- Bexon, John Joseph, B.Sc., with Honours in chemistry, class III, 1961
- Bewley, Albert Latham, B.A., with Honours in general studies, class II(i), 1961
- Bickerton, Terence John, B.Sc., with Honours in the chemistry of leather manufacture, class II(i), 1961
- Bingham, Frank David, LL.B., with Honours, class II(i), 1961
- Binns, Eric Spence, B.Sc., with Honours in agricultural zoology, class II(i), 1961
- Freda Mollie, B.Sc., with Honours in general studies, class II(ii), 1961
- Biradar, Ningondappa Shenkreppa, Ph.D. (*in absentia*), 1960
- Birchall, David Robert, B.Sc., with Honours in physics, class II(i), 1957; Ph.D., 1960
- Peter, B.A., with Honours in modern languages, class II(i), 1961
- Bircher, Lloyd Thomas, B.A., with Honours in English, class II(ii), 1961
- Bird, Margaret, B.A., with Honours in theology, class III, 1961
- Bishop, Merryn, B.A., with Honours in theology, class III, 1961
- Biswas, Robindra Kumar, B.A., with Honours in English, class II(i), 1961

- Blaby, Norman John, B.A., with Honours in German, class III, 1961
- Blackburn, George, B.Sc., with Honours in physics, class II(i), 1961
- John, B.A., with Honours in general studies, class III, 1961
- Blacker, John Geoffrey, B.Sc., with Honours in colour chemistry, class II(i), 1961
- Blackwell, Derek Anthony, B.Sc., with Honours in mechanical engineering, class II(ii), 1961
- Blakey, Catherine, B.A., with Honours in psychology, class II(ii), 1961
- Blenkinsop, Paul Addyman, B.Sc., with Honours in metallurgy, class II(ii), 1961
- Bligh, Donald Arthur, B.A., with Honours in geography, class II(ii), 1961
- Bold, Margaret Elaine, B.A., with Honours in French, class II(ii), 1961
- Bolter, James Ian, B.Sc., with Honours in chemical engineering, class III, 1961
- Bolton, Brenda Margaret, B.A., with Honours in history, class II(ii), 1961
- Bone, Peter John, B.A., with Honours in history, class II(i), 1961
- Bookless, Thomas Charles, B.A., with Honours in Spanish, class II(ii), 1961
- Booth, Michael Lewis, B.A., with Honours in textile design, class II(ii), 1961
- Terence, B.Com., with Honours, class II(i), 1961
- Borrill, John Frederick Cooper, B.Sc., with Honours in mechanical engineering, class II(i), 1961
- Botterill, David Malcolm, B.A., with Honours in geography, class II(i), 1961
- Boulton, Neal Anthony, B.A., with Honours in economics, class II(ii), 1961
- Bowers, Robin, B.Sc. (agricultural studies), 1961
- Bowler, Joan, B.A., with Honours in modern languages, class III, 1961
- Boyle, Michael James, B.Sc., 1961
- Bradbury, Joyce Elizabeth, LL.B., with Honours, class II(ii), 1961
- Brader, Richard, B.A., with Honours in German, class II(ii), 1961
- Bradfield, Dennis William, B.A., in general studies, 1961
- Bradley, Margaret Anne, B.A., with Honours in economics, class II(i), 1961
- Pauline, B.A., with Honours in general studies, class III, 1961
- William Anthony, B.A., with Honours in geography, class II(i) 1961
- Bradshaw, Thomas Alan, B.Sc., with Honours in mechanical engineering, class I, 1955;
Ph.D., 1961
- Branam, Harold Frank, B.A., with Honours in English, class III, 1961
- Branson, Eric Arthur, B.Sc., in general studies, 1961
- Brant, Michael Rowanayne, B.Sc., with Honours in physics, class II(ii), 1961
- Brass, Peter Selby, B.Sc., in general studies, 1961
- Brend, Veronica, B.A., with Honours in English, class III, 1961
- Brennan, Michael, B.A., with Honours in English, class II(ii), 1961
- Bresloff, David Michael, B.Sc., with Honours in general studies, class II(i), 1961
- Bretherick, Paul John, M.B., Ch.B., 1961
- Brett, David William, B.Sc., with Honours in general studies, class II(ii), 1961
- Briggs, Geoffrey Gower, B.Sc., with Honours in chemistry, class II(ii), 1961
- John, B.A., with Honours in theology, class II(ii), 1961
- Brinkworth, Robert Anthony, B.Sc., with Honours in colour chemistry, class III, 1958;
M.Sc., 1961
- Britton, John Guy, B.A., with Honours in general studies, class II(i), 1961
- Broadbent, Arthur Douglas, B.Sc., with Honours in colour chemistry, class I, 1961
- Christine Stephanie, B.A., with Honours in general studies, class III, 1961
- John Edward Alexander, B.Sc., with Honours in textile engineering, class II(i), 1961
- Broadgate, Anthony David, B.Sc., with Honours in mechanical engineering, class III, 1961
- Broadhead, James Arthur, B.Sc., with Honours in the chemistry of leather manufacture,
class III, 1961
- Brook, Anthony John Warwick, B.Sc., with Honours in chemistry, class II(i), 1957;
Ph.D., 1960
- Brookes, Austin, B.Sc., with Honours in geology, class II(ii), 1961
- Brophy, Denis Patrick, B.Sc., with Honours in general studies, class III, 1961
- Brotherston, James Gordon, B.A., with Honours in Spanish, class I, 1961
- Brown, Alan James, B.Sc., with Honours in general studies, class II(ii), 1961
- David Foord, B.A., with Honours in sociology, class II(ii), 1961
- John Kenneth, B.Sc., 1961

GRADUATES

- Brown, Mary Elizabeth, B.Sc., with Honours in mathematics, class II(i), 1961
- Paul Hedley, B.Sc., with Honours in physics, class II(ii), 1961
- Sheila Margaret, B.Sc., with Honours in mathematics, class III, 1961
- Brumfitt, Geoffrey, B.Sc., with Honours in chemistry, class II(i), 1961
- Brunt, Rodney Vincent, B.Sc., with Honours in biochemistry, class II(i), 1957; Ph.D., 1960
- Bryan, Charles Rigney, M.A., 1960
- Buckels, Susan, B.Sc., with Honours in botany, class II(i), 1961
- Buckley, Brian Bertrand, B.Com., 1961
- Colin, B.A., with Honours in general studies, class III, 1961
- Budding, John, B.Sc., with Honours in colour chemistry, class I, 1958; Ph.D., 1961
- Bull, Royston Philip, B.A., with Honours in Russian, class III, 1961
- Bullock, Elizabeth Kathleen, M.B., Ch.B., 1960
- Burdett, Brian Cyril, B.Sc., 1957; M.Sc., 1960
- Burger, André Eric, B.Sc., with Honours in general studies, class III, 1961
- Burrow, Graham Harvey, B.Sc., with Honours in the chemistry of leather manufacture, class III, 1961
- Burrows, Darryl Benfield, B.Sc., 1961
- Robert William Reginald, B.Com., 1961
- Busfield, Walter Kenneth, B.Sc., with Honours in chemistry, class II(i), 1957; Ph.D. (*in absentia*), 1960
- Bush, Christopher Norman, B.Sc., with Honours in mining, class II(i), 1961
- Peter, B.Sc., with Honours in physics, class III, 1961
- Bust, Eric William, B.Sc., with Honours in chemical engineering, class II(ii), 1961
- Butcher, Christopher Ben, B.A., with Honours in general studies, class III, 1961
- Butler, Thomas Frederick, B.Sc., with Honours in electrical engineering, class I, 1961
- Butterfield, Colin, B.Sc., with Honours in chemical engineering, class III, 1961
- Butters, Ann Peterkin, B.Ch.D., 1961
- Bywater, Murray Lloyd, B.Sc., with Honours in mechanical engineering, class II(i), 1961
- Caine, Thomas Nelson, B.A., with Honours in geography, class I, 1961
- Cairns, Clare Josephine Hamilton, B.A., with Honours in textile design, class III, 1961
- Caisley, John, B.Sc., with Honours in metallurgy, class II(i), 1961
- Cavell, Barry, B.A., with Honours in general studies, class II(ii), 1961
- Calvert, Matthew Hugo, B.Sc., with Honours in anatomy, class II(i), 1961
- Valerie Sue, B.A., in general studies, 1961
- Campbell, John Brian, B.Sc., 1961
- Cardno, Peter John, B.Sc., with Honours in chemistry, class I, 1961
- Carley, Ann Patricia, B.A., in special studies (French), 1961
- Carter, Andrew Roger, B.A., with Honours in music, class III, 1961
- David Arthur, M.B., Ch.B., 1960
- Julia, B.A., with Honours in English, class II(ii), 1961
- Peter, B.Sc., with Honours in physics, class I, 1961
- Cartwright, Anthony Caswell, B.Sc., with Honours in pharmacy, class III, 1961
- Brian Smith, B.Sc., with Honours in chemistry, class II(i), 1961
- Carver, Judith, B.A., with Honours in French, class III, 1961
- Castree, Ann Valerie, B.A., with Honours in general studies, class III, 1961
- Catterall, Nigel David Heman, B.Com., with Honours, class III, 1961
- Caudle, Brian Eric, B.Sc., with Honours in electrical engineering, class III, 1961
- Causton, David Robert Crampton, B.Sc. (agricultural studies), 1961
- Cave, Lorna, B.A., with Honours in Spanish, class III, 1961
- Caveney, Terence Austin, B.Sc., with Honours in gas engineering, class II(ii), 1961
- Chaffer, Thomas, B.A., with Honours in general studies, class III 1961
- Chakrabortti, Sushil Kumar, B.Sc., 1961
- Chakraborty, Samir Chandra, B.Sc., 1961
- Chalmers, Charles Duncan, B.A., with Honours in history, class II(i), 1961
- Chamberlain, John Stanley, B.A., with Honours in English, class II(ii), 1959; M.A., 1961

- Chambers, Austin, B.Sc., with Honours in physics, class II(i), 1961
 William Barrie, B.A., in special studies (philosophy and politics), 1961
- Chapman, David Allott, B.Sc., 1961
 Michael Robin, B.A., with Honours in general studies, class II(ii), 1961
 Paul Whiteley, B.A., with Honours in general studies, class II(ii), 1961
- Charnley, John Neil, B.A., with Honours in modern languages, class II(ii), 1961
- Chavda, Vijaysingh Kishansingh, Ph.D. (*in absentia*), 1961
- Chekuri, Nageswara Srirama Prasada Varma, Ph.D., 1960
- Chidley, Thomas Robert Edward, B.Sc., with Honours in civil engineering, class II(ii), 1961
- Child, David Brian, LL.B. (*aegrotat*), 1961
- Chorlton, Bernice Anne, B.Sc., with Honours in biochemistry, class I, 1961
- Chrispin, Gerard Andrew, LL.B., with Honours, class III, 1961
- Church, John Christopher, B.Com., 1961
- Clare, Alan Charles, B.Sc., with Honours in mechanical engineering, class III, 1960
 Peter Daniel, B.A., with Honours in economics, class III, 1961
- Clark, David Ernest, M.B., Ch.B., 1960
 Peter John, B.Sc., with Honours in general studies, class II(i), 1961
- Clarke, Rose Marie, B.A., in general studies, 1961
- Clarkson, William Peter, B.Sc., with Honours in general studies, class II(ii), 1961
- Clayton, Paul Anthony, B.Sc., with Honours in chemistry, class II(i), 1961
- Clough, Alister Robert John, B.Sc., with Honours in ceramics, class II(i), 1961
 Frances Mary, B.A., in special studies (geography), 1961
- Coates, Bryan Ellis, B.A., with Honours in geography, class II(i), 1955; M.A., 1960
- Cocker, Alan Joseph, B.Sc., with Honours in chemistry, class II(ii), 1957; Ph.D., 1961
- Codling, Reginald Ian, B.Sc., with Honours in civil engineering, class I, 1961
- Colgrove, Richard, B.Sc., 1961
- Collier, Brian, B.Sc., with Honours in pharmacy, class II(i), 1961
- Collingwood, Gerard Anthony, M.B., Ch.B., 1960
- Collins, Brian John, B.Sc., with Honours in mechanical engineering, class III, 1961
 Elizabeth Anne, B.A., with Honours in sociology and philosophy, class III, 1961
- Connor, Pauline Anne, B.A., with Honours in general studies, class III, 1961
- Cook, David, B.A., with Honours in general studies, class II(ii), 1961
 Michael John, B.A., with Honours in general studies, class II(ii), 1961
- Cookson, Roy Alfred, B.Sc., with Honours in mechanical engineering, class II, 1956; Ph.D., 1960
- Cooper, Ronald, B.Sc., with Honours in chemistry, class II(i), 1957; Ph.D., 1960
 Stephen Charles, B.A., with Honours in general studies, class II(ii), 1961
- Copley, Malcolm, B.Sc., 1957; with Honours in textile industries, class II, 1958; Ph.D., 1961
- Corlett, Helen Elizabeth, B.A., with Honours in sociology, class II(ii), 1961
 James William, B.Sc., 1961
- Cotran, Emile, B.Sc., 1961
- Coxon, Anthony Peter MacMillan, B.A., with Honours in sociology and philosophy, class II(i), 1961
- Cowdrey, David Reginald, B.Sc., with Honours in physics, class II(ii), 1961
- Cowles, Patricia Ann, B.Sc., with Honours in general studies, class II(ii), 1961
- Cowling, Peter George, B.A., with Honours in English, class II(i), 1961
- Crabtree, Peter Enos, B.Sc., with Honours in electrical engineering, class III, 1961
- Craven, William Garth, B.A., with Honours in general studies, class III, 1961
- Croft, Ian, B.Sc., 1961
 Michael John, B.A., with Honours in geography, class II(i), 1959; M.A., 1961
- Cross, John Howard, B.Sc., in general studies, 1961
- Crowther, Barrass Stockton, B.Com., 1961
- Cunningham, Charles Anthony Hugh, B.Ch.D., 1961
 David Andrew, B.Sc., with Honours in chemistry, class III, 1961
- Curry, Judith Mary, B.A., with Honours in Latin, class II(i), 1961
- Cutler, David Frederick, B.Sc., with Honours in botany, class II(ii), 1961
- Czerkawski, Julian Wladislaw, Ph.D., 1960

GRADUATES

- Dalzell, Tom, B.Sc., with Honours in the chemistry of leather manufacture, class II, 1957; Ph.D., 1960
- Daniel, William Anthony, LL.B., with Honours, class II(i), 1961
- Darby, Sybil, B.Sc., with Honours in geography, class III, 1961
- Dash, Barun Kumar, B.Sc., 1961
- Davies, Bernard Eric, B.Sc., with Honours in chemical engineering, class II(i), 1961
Carolyn, B.A., with Honours in general studies, class II(ii), 1961
David Alan, Ph.D., 1961
Richard Nicholas, B.A., with Honours in German, class II(ii), 1961
- Davis, James Norman, B.Sc., with Honours in pharmacy, class II(ii), 1961
- Dawes, Edwin Alfred, B.Sc., with Honours in chemistry, class II, 1946; Ph.D., 1948; D.Sc., 1961
- Dawson, John Barry, B.Sc., with Honours in geology, class I, 1957; Ph.D. (*in absentia*), 1960
John Frederic, B.Sc., with Honours in colour chemistry, class II(i), 1961
Michael, B.A., with Honours in English, class II(ii), 1961
Myrtle Vera, B.A., with Honours in general studies, class II(ii), 1961
Peter John, B.Sc., with Honours in physics, class III, 1961
- Dean, Michael, B.Sc., with Honours in electrical engineering, class II(i), 1961
- Delves, Bryan, B.Sc., with Honours in chemistry, class II(ii), 1960
- Denham, David, B.Sc., with Honours in physics, class II(i), 1957; Ph.D., 1960
- Dennis, Brian Roy, B.Sc., with Honours in physics, class II(i), 1961
Peter Patrick, B.Sc., with Honours in metallurgy, class III, 1961
- Denton, Sheila Mary, B.A., with Honours in geography, class II(ii), 1961
- Dewhurst, Thomas, B.Sc., with Honours in chemical engineering, class II(i), 1961
Thomas Antony, B.Sc., with Honours in agriculture, class II(i), 1961
- Diamond, David John, B.A., in general studies, 1961
- Dickinson, Michael, B.Sc., 1961
- Dimmock, David Charles, LL.B., with Honours, class II(i), 1961
- Dixey, Marion Gladys, B.A., with Honours in biblical studies, class II(ii), 1961
- Dixon, Rosemary Angela, B.Sc., with Honours in textile physics, class II(ii), 1961
William Alan, B.A., with Honours in English, class II(ii), 1961
- Dodd, Peter Lawrence, B.A., with Honours in theology, class II(ii), 1961
Philip Kevin, LL.B., with Honours, class III, 1961
- Dongre, Arwind Vasant, M.Sc., 1960
- Donner, Richard John, B.Com., with Honours, class II(i), 1961
- Doughty, Margaret Mary, B.Sc., with Honours in general studies, class III, 1961
Susan Joy, B.Sc., in general studies, 1961
- Driver, John Trevor, B.Ch.D., 1961
- Dunk, David, LL.B., with Honours, class II(ii), 1961
- Dunn, David Roger, B.Sc., with Honours in chemical engineering, class III, 1961
- Dupont, Maurice Roger, B.Sc., with Honours in mathematics (*in absentia*), class III, 1960
- Durham, Esmé Vera, B.A., with Honours in history, class II(ii), 1961
- Durling, Christopher John, B.A., in special studies (German), 1961
- Dyer, Brian Arthur, B.Sc., 1961
- Dyson, Frederick Malcolm, B.Sc., with Honours in civil engineering, class II(i), 1961
Walter Raymond, B.Sc., with Honours in colour chemistry, class II(i), 1961
- Eastham, Thomas Malcolm, B.A., in special studies (history), 1961
- Eaton, Anthony Charles, B.A., with Honours in general studies, class III, 1961
Dorothy Mary, M.B., Ch.B., 1960
- Eccles, John James, B.Sc. (agricultural studies), 1961
- Edwards, Mavis Irene, B.Sc., with Honours in physics, class II(i), 1961
- Ehrlich, Roger David, B.Ch.D., 1961
- El-Deiry, Magida Amin Youssif, B.A., with Honours in psychology, class II(ii), 1961
- Ellam, Richard Malcolm, B.Sc., with Honours in chemistry, class II(i), 1961
- Ellenport, Malcolm Ivan, B.A., with Honours in economics, class II(ii), 1961

E - F

- Ellis, David Alan, Ph.D., 1960
 Jeffrey, M.B., Ch.B., 1961
 Emmott, Stephen Waddington, B.A., with Honours in textile design, class III, 1961
 Emsley, James William, B.Sc., with Honours in chemistry, class II(i), 1956; Ph.D., 1960
 English, Marion, B.A., with Honours in history, class II(ii), 1961
 Ergin, Mehmet Abdullah Merih, B.Sc., with Honours in textile engineering, class II(i), 1961
 Evans, Anthony Charles, B.Sc., with Honours in chemical engineering, class II(i), 1961
 Barry Antony, B.A., with Honours in economics, class II(ii), 1961
 Patricia Elizabeth, B.A., with Honours in history, class III, 1961
 Timothy Lloyd, B.Sc., 1961
 Everett, Alfred, LL.B., with Honours, class III, 1961
 Everitt, William Howard, B.Sc., with Honours in mechanical engineering, class II (i), 1961
- Fackrell, Joan Margaret Hodel, B.A., with Honours in English, class II(ii), 1961
 Fairfoul, Peter, B.Sc., with Honours in electrical engineering, class III, 1961
 Fakayode, Joseph Abiola, B.A., with Honours in philosophy and politics, class II(ii), 1961
 Faller, Angela Mary, B.Sc., with Honours in physics, class II(i), 1961
 Farrell, Bernard, B.Sc., with Honours in general studies, class III, 1961
 Farrow, Edith, B.A., with Honours in history, class II(ii), 1961
 Fatkin, Gordon, B.Sc., with Honours in mining, class II, 1958; Ph.D., 1961
 Faubert, Julien, B.A., with Honours in general studies, class II(ii), 1961
 Faure, Michael, B.A., with Honours in philosophy and history, class II(ii), 1961
 Fawcett, Allan, B.Sc., with Honours in civil engineering, class II, 1957; Ph.D., 1961
 Peter, B.Sc., 1952; with general Honours, class III, 1953; M.Sc., 1961
 Fearn, Kathleen Mary, M.B., Ch.B., 1960
 Fearon, Frederick William Gordon, B.Sc., with Honours in chemistry, class II(i), 1961
 Featherstone, Michael John, B.Sc., with Honours in civil engineering, class III, 1961
 Feldman, Elaine Barbara, B.A., with Honours in economics, class III, 1961
 Ferguson, Gordon William Hugh, LL.B., 1961
 Fernandez, Ronald Herbert Peter, M.B., Ch.B., 1946; M.D., 1960
 Finer, Julia Winifred, B.A., with Honours in English, class II(i), 1961
 Finnigan, Calvin Dudley, B.A., in special studies (economics), 1961
 Firth, Lewis Arthur, B.Sc., with Honours in physics, class II(ii), 1961
 Fisher, Derek George, B.Sc., with Honours in chemistry, class II(ii), 1956; Ph.D., 1961
 Fitches, Gordon William, B.Sc., 1961
 Flashtig, Paula Day, B.A., with Honours in sociology, class II(ii), 1961
 Fletcher, James Michael, B.Ch.D., 1960
 Margaret Elisabeth, LL.B., with Honours, class II(i), 1961
 Michael John, B.Sc., with Honours in metallurgy, class II(i), 1961
 Raymond Arthur, B.Sc., with Honours in agricultural chemistry, class II(ii), 1961
 Flood, John Martin, B.Sc., with Honours in physics, class I, 1961
 Ford, Arnold Robert, B.Sc., 1961
 Foreman, John, B.Sc., with Honours in chemical engineering, class II(ii), 1961
 Foster, John Stuart, B.A., with Honours in German, class II(ii), 1961
 Fotheringham, Alan Lynton, B.A., with Honours in history, class II(ii), 1961
 Fox, Andrew Michael, B.A., with Honours in geography, class II(ii), 1961
 Brian Robert, B.Sc., with Honours in general studies, class II(ii), 1961
 John Leslie, B.Sc., with Honours in mechanical engineering, class III, 1961
 Vincent Bede, B.A., with Honours in general studies, class III, 1961
 France, David John, LL.B., with Honours, class III, 1961
 Francis, Andrea Rosheen, B.A., with Honours in sociology, class III, 1961
 Frank, Thomas Frederick Philip, B.Sc., with Honours in physics, class II(ii), 1961
 Franklin, John Francis, B.Sc., with Honours in chemical engineering, class II(i), 1961
 Fraser, Derek, B.A., with Honours in history, class II(i), 1961
 Janet Louise, B.A., with Honours in combined studies, class II(i), 1961
 Freer, David Harrison, B.Sc., in general studies, 1961
 French, John Francis, B.A., with Honours in English, class III, 1961
 Raymond James, B.A., with Honours in general studies, class II(ii), 1961

GRADUATES

- Frith, Norman, B.Sc., with Honours in general studies, class II(ii), 1961
 Frost, Judith Ann, B.Sc., with Honours in mathematics, class II(ii), 1961
 Malcolm William, B.Sc., in special studies (mathematics), 1961
 Fudge, Valerie Yvonne, B.A., with Honours in general studies, class III, 1961
 Fuller, Janet Florence, LL.B., with Honours, class I, 1961
 Furnivall, Anne, B.A., with Honours in history, class II(ii), 1961
 Futchter, David Anthony, B.Sc., with Honours in chemistry, class III, 1961
- Gadie, John Anthony, B.Sc., 1961
 Gallard, Jacqueline Georgette, B.A., with Honours in mathematics, class III, 1961
 Gambles, Sheila, B.A., in special studies (Latin), 1961
 Garman, Robert William Harry, B.Sc., 1961
 Gass, Ian Graham, B.Sc., with Honours in geology, class II, 1952; M.Sc. (*in absentia*), 1956; Ph.D., 1960
 Gazard, Andrew David, B.Sc., with Honours in chemistry, class II(i), 1961
 Geere, Ian Wilfred, M.B., Ch.B., 1960
 Gent, Eric John, B.A., with Honours in geography, class II(ii), 1961
 Gerrard, Patricia Winifred, B.A., with Honours in English, class II(ii), 1961
 Ghosh, Sushil Kumar, B.Sc., with Honours in mining, class II(i), 1961
 Gibson, David Thomas, B.Sc., with Honours in biochemistry, class I, 1961
 Gilbert, Anne, B.A., with Honours in French, class II(ii), 1961
 Peter Norval, B.Ch.D., 1961
 Gillham, Ian Robert, B.A., with Honours in general studies, class II(i), 1961
 Gledhill, Sheila Ann, B.A., with Honours in Latin with Greek, class II(ii), 1961
 Glencross, Michael John, B.Sc., in general studies, 1961
 Goding, Montague Walter John, B.Sc., 1961
 Goldthorpe, Ann Rachel, B.A., with Honours in French, class III, 1961
 Gomersall, Angela Ruth, B.A., with Honours in geography, class II(ii), 1961
 Goodenough, Lionel John, B.Sc., with Honours in general studies, class I, 1961
 Goodfield, Gwyneth June, Ph.D. (*in absentia*), 1961
 Goodier, Fred, B.Sc., with Honours in textile chemistry, class III, 1961
 Gore, Michael Miles, B.Sc., with Honours in electrical engineering, class II, 1957; Ph.D., 1961
 Gotch, Robert Christopher, B.A., with Honours in classics, class II(ii), 1961
 Gott, Ian Wilson, B.Sc., with Honours in mechanical engineering, class II(ii), 1961
 Goulcher, Roy William, B.Sc., with Honours in chemical engineering, class II, 1953; Ph.D., 1960
 Goulding, David Charles Newton, B.Sc. (agricultural studies), 1961
 Gow, Noel Furse, B.Com., 1961
 Grafton, Paul Marlowe, B.Sc., with Honours in textile engineering, class II(ii), 1961
 Graham, Desmond Francis, B.A., with Honours in English, class II(i), 1961
 William, LL.B., with Honours, class III, 1961
 Greaves, Brian, B.A., with Honours in geography, class I, 1955; M.A., 1961
 Green, Brian, B.Sc., 1961
 Colin Paul, B.Sc., with Honours in chemistry, class II(ii), 1961
 Edward John, B.Sc., 1961
 Howard Stanton, B.Sc., with Honours in colour chemistry, class II(i), 1961
 John, B.A., with Honours in economics, class II(ii), 1961
 Greene, Terry, B.A., with Honours in general studies, class II(ii), 1961
 Greenwood, Mary Elizabeth, B.A., with Honours in psychology, class II(i), 1961
 Roger David, B.Sc. (*aegrotat*), 1961
 Gregory, Douglas Stuart, B.Sc., 1961
 William Keith, B.Sc., with Honours in physics, class III, 1961
 Gregson, John, B.Sc., with Honours in mechanical engineering, class II(ii), 1961
 Grimshaw, Roy, B.Sc., with Honours in chemistry, class II(ii), 1961
 Grosskopf, Deanna Janet, B.A., with Honours in sociology, class III, 1961
 Grove, Peter Clayden, B.A., with Honours in geography, class II(i), 1961

G-H

- Guiton, Richard Alexander Derek, B.A., with Honours in history, class III, 1961
 Gunn, William Albert, B.A., in special studies (German), 1961

 Hadwin, Leslie, B.Sc., with Honours in electrical engineering, class II(i), 1961
 Haines, David Oxford, LL.B., with Honours, class III, 1961
 Hainsworth, Frank, M.B., Ch.B., 1960
 Timothy Bateson, B.Com., with Honours, class III, 1961
 Hall, Anthony Eric, B.Sc. (agricultural studies), 1961
 Derek, B.A., with Honours in economics, class III, 1961
 Robert Ernest, B.Sc., with Honours in electrical engineering, class I, 1961
 Halton, David William, B.Sc., with Honours in general studies, class II(i), 1960; with
 Honours in zoology, class II(i), 1961
 Hammond, Angela Lesley, B.A., with Honours in sociology and philosophy, class III, 1961
 Hampson, Elizabeth Cordelea, B.A., with Honours in psychology, class II(i), 1961
 Frank, B.Sc., with Honours in chemistry, class I, 1961
 Handscombe, Brenda, B.A., with Honours in English, class II(ii), 1961
 Hannesson, Jom Ingi Eldon, B.A., with Honours in general studies, class III, 1961
 Hardey, Brian Richard, B.A., with Honours in general studies, class III, 1961
 Harding, James Austin, B.A., with Honours in general studies, class II(ii), 1961
 Priscilla Jane, B.A., with Honours in general studies, class III, 1961
 Hargreaves, Ian Walter, B.Sc., 1961
 Roger Philip Nixon, B.Sc., with Honours in mining, class II(ii), 1961
 Trevor, B.Sc., with Honours in colour chemistry, class II(i), 1961
 Harmer, Peter David, B.A., with Honours in classics, class III, 1961
 Harris, Paul Michael, B.Sc., with Honours in agricultural studies, class I, 1956; M.Sc., 1960
 Harrison, Deryk William, B.Sc., with Honours in chemistry, class III, 1960
 Isobel, B.A., with Honours in history, class II(i), 1961
 John Patrick, B.Sc., with Honours in physics, class II(i), 1961
 Kenneth, B.Sc., 1961
 Hartland, Ian William, B.Sc., with Honours in general studies, class III, 1961
 Hartley, Edward Brian, B.Sc., 1960; with Honours in textile industries, class II(i), 1961
 Hartney, Thomas, B.A., with Honours in English, class II(ii), 1961
 Hartshorne, William Park, B.A., with Honours in English, class III, 1961
 Harvey, Hugh Michael, LL.B., with Honours, class II(i), 1961
 Michael Gwydir Parsons, B.Sc., with Honours in zoology, class II(ii), 1961
 Stanley Joseph, B.Sc., with Honours in mechanical engineering, class II(i), 1961
 Haskew, Paul Joseph, B.Sc., with Honours in mechanical engineering, class III, 1961
 Haworth, Stephen Michael, M.B., Ch.B., 1960
 Hayes, David, B.Sc., with Honours in physics, class II(ii), 1958; M.Sc., 1960
 Hayman, David Stanley, B.Sc., with Honours in botany, class II(ii), 1961
 Haynes, Edward James Walter, B.A., with Honours in Spanish, class II(ii), 1961
 Hayward, Patricia, B.A., with Honours in Russian, class II(ii), 1961
 Shirley Ann, B.A., with Honours in modern languages, class III, 1961
 Heaps, Peter William, B.Sc., with Honours in the chemistry of leather manufacture,
 class II(i), 1961
 Helliwell, Paul Richard, B.Sc., with Honours in civil engineering, class II, 1957; Ph.D.,
 1960
 Henderson, Noel Gordon, B.A., with Honours in French, class II(ii), 1961
 Hey, Michael James, B.Sc., with Honours in chemistry, class I, 1961
 Hilditch, Peter, B.A., with Honours in economics, class III, 1961
 Hill, Andrew Brodie, B.A., with Honours in psychology, class II(i), 1961
 John Vernon, B.Sc., with Honours in textile industries, class II(ii), 1961
 Margaret, B.A., with Honours in music, class II(i), 1961
 Hind, Marie Veronica, B.Sc., 1961
 Hinson, David Stoakley, M.B., Ch.B., 1960
 Hobson, Donald, B.Ch.D., 1961
 John Geoffrey, B.A., with Honours in modern languages, class II(ii), 1961
 Hodge, Jean Lynnette, B.A., with Honours in English, class II(ii), 1961

GRADUATES

- Hodgin, Raymond William, LL.B., with Honours, class II(ii), 1961
 Hodgkinson, Bruce Ian, B.Sc., with Honours in civil engineering, class II(i), 1961
 Hodgson, Derek Raymond, B.Sc., 1950; Ph.D., 1961
 Raymond James, B.A., with Honours in psychology, class II(i), 1961
 Holden, Anthony, B.A., with Honours in general studies, class II(ii), 1961
 Thomas More, B.Sc., with Honours in physics, class I, 1961
 Holdom, Roger Scott, B.Sc., with Honours in bacteriology, class II(i), 1961
 Holdsworth, Mary Josephine, M.Sc., 1960
 Holland, Christopher John, B.Sc., with Honours in civil engineering, class II(i), 1961
 Holliday, Arthur Kenneth, B.Sc., with Honours in chemistry, class I, 1940; Ph.D., 1942
 D.Sc., 1961
 Hollings, Christopher Paul, B.Ch.D., 1961
 Hollins, Brian Eric, B.Sc., with Honours in electrical engineering, class II(i), 1961
 Holroyd, Michael Saxton, B.Ch.D., 1961
 Holt, John Hindle, B.Com., with Honours, class III, 1961
 Hood, Dennis, B.A., in general studies, 1961
 Hopkins, David Brian, B.Sc., with Honours in civil engineering, class II(i), 1961
 Hopson, Frank, B.Com., 1961
 Hopwood, David, M.B., Ch.B., with Honours, class II, 1960
 Leonard Cameron, B.Sc., with Honours in electrical engineering, class III, 1961
 Horner, Nerolie, B.Sc., with Honours in mathematics, class II(ii), 1961
 Horsfall, Sheila, LL.B., with Honours, class III, 1961
 Hothersall, David Bryan, B.Sc., 1961
 Howard, Jill Beryl, B.A., with Honours in history, class II(ii), 1961
 Howe, Clifford Ian, B.Sc., 1961
 Howgate, John Matthew, B.Com., with Honours, class II(ii), 1961
 Hoyle, Kathleen, B.Sc., 1961
 Hudson, Margaret, B.A., with Honours in German, class III, 1961
 Hughes, John, B.Sc., with Honours in civil engineering, class III, 1961
 John Carrington, B.Sc., with Honours in physics, class II(ii), 1961
 Thomas Alan, B.Sc., with Honours in metallurgy, class I, 1961
 Hugill, Janet Lorraine, B.A., with Honours in general studies, class III, 1961
 Humphries, Kelvin James, B.Sc., with Honours in chemical engineering, class II(ii), 1961
 Hunter, George, B.Sc., with Honours in chemical engineering, class III, 1961
 Hurst, Donald, B.A., with Honours in geography, class II(ii), 1961
 Richard Arthur Alexander, Ph.D., 1961
 Husain, Husain Mohammad, B.Sc., with Honours in civil engineering, class II(ii), 1961
 Hutchinson, David, B.Sc., 1961
 Malcolm, B.Sc., with Honours in general studies, class I, 1961
- Illingworth, Elizabeth Mary, B.Sc., with Honours in general studies, class II(i), 1961
 Ingebrigtsen, Trygve, B.Ch.D., 1961
 Ingham, Anthony Harold, B.A., with Honours in economics, class II(ii), 1961
 Inoma, Onybuch Joseph, LL.B., with Honours, class III, 1961
- Jackson, Brian Stanley, B.A., with Honours in history, class II(ii), 1961
 David Spence, B.Sc., in special studies (physics), 1961
 Kenneth Thomas, B.Sc., with Honours in metallurgy, class II(ii), 1961
 Patricia Mary, B.A., with Honours in history, class III, 1961
 Philip Paul, B.A., with Honours in German, class II(i), 1961
 James, Cherry, B.Ch.D., 1961
 Peter Arthur Robert, B.A., with Honours in English, class II(ii), 1961
 Jamil, Zuhair Kamel, M.Sc., 1961
 Jarvis, Arthur Victor, B.A., with Honours in general studies, class III, 1961
 Michael Bennett, B.Sc., with Honours in colour chemistry, class II(i), 1961
 Jasper, Ronald Claud Dudley, B.A., with Honours in history, class II, 1938; M.A., with
 distinction, 1940; B.D., 1950; D.D., 1961

- Jeeves, Lurline Anne, B.A., with Honours in German, class III, 1961
 Jeffries, William Michael B.A., with Honours in general studies, class II(ii), 1961
 Jeffs, Helen Josephine, B.A., in special studies (French), 1961
 Jenkins, Graham, B.Sc., in special studies (mathematics), 1961
 Jerram, Kenneth Ian, LL.B., with Honours, class II(ii), 1961
 Jessop, Allen, B.Sc., with Honours in electrical engineering, class III, 1961
 Dennis, B.A., in special studies (modern languages), 1961
 Jewell, Edward John, B.Sc., with Honours in agricultural chemistry, class II(i), 1961
 Johnson, Mrs. Anne, M.B., Ch.B., 1960
 Colin Arthur, B.Sc. (agricultural studies), 1961
 David Julian, B.Sc., with Honours in physics, class III, 1957; M.Sc., with distinction, 1960
 George William, B.Sc., with Honours in physics, class II(i), 1957; Ph.D., 1961
 Lionel, B.Sc., with general Honours, class III, 1949; M.Sc., with distinction, 1958; Ph.D., 1960
 Johnston, Bryan William, B.Sc., with Honours in chemical engineering, class II(ii), 1961
 Jones, Arfon Harry, B.Sc., with Honours in civil engineering, class I, 1955; Ph.D. (*in absentia*), 1960
 Brenda Hilary, B.A., in special studies (Russian), 1961
 Coral Rita, B.A., with Honours in geography, class II(ii), 1961
 Geoffrey Owen, B.Sc., with Honours in general studies, class III, 1961
 Gladys Margaret, B.A., in special studies (sociology), 1961
 Gordon Leonard, B.Sc., with Honours in biochemistry, class II(ii), 1957; Ph.D., 1960
 Griffith William, B.A., with Honours in history, class II(ii), 1956; M.A., 1961
 John Kenrick, B.A., with Honours in general studies, class II(ii), 1961
 Maureen, B.A., with Honours in French, class III, 1961
 Michael Lown, B.Sc., with Honours in mining, class II(i), 1961
 Robert, B.A., with Honours in history, class II(i), 1961
 Ronald Allan, B.Sc., 1961
 William, B.Sc., 1961
 Jordan, Diana Mary, B.A., with Honours in history, class II(i), 1961
 John, B.A., with Honours in sociology, class III, 1961
 Joynst, Charles Neil, B.Sc., 1961
- Kaye, Charles Redfern, B.Sc., with Honours in mining, class II(i), 1961
 Keir, Robert, B.A., with Honours in French, class II(i), 1961
 Kellett, Jean, B.A., with Honours in geography, class II(ii), 1961
 John, B.Sc., 1961
 Kelly, Gerald Edmund, B.A., with Honours in economics, class II(ii), 1961
 Marjorie Elizabeth, B.Sc., with Honours in mathematics, class II(ii), 1961
 Peter Gerald, B.Sc., with Honours in biochemistry, class III, 1961
 Kenchington, William, B.Sc., with Honours in zoology, class II(ii), 1961
 Kendal, Diana Margaret, B.A., with Honours in French, class II(ii), 1961
 Kendrew, Jean, B.Sc., with Honours in general studies, class I, 1961
 Kent, Anthony David, B.A., with Honours in economics, class III, 1961
 Kenward, David Howard, M.B., Ch.B., 1960
 Kenworthy, Brian, B.A., with Honours in Spanish, class II(i), 1961
 Kenyon, Peter, B.Sc., 1961
 Robert Edward, B.A., with Honours in sociology, class II(ii), 1961
 Kerr, William John Robert, B.A., with Honours in general studies, class III, 1961
 Kerrison, David Gregory, B.A., with Honours in English, class II(ii), 1961
 Kershaw, Malcolm Stuart, B.Sc., with Honours in physics, class I, 1961
 Khaliq, Abdul, Ph.D., 1960
 Khudri, Tahir Ghani, B.Sc., with Honours in electrical engineering, class II(i), 1961
 Kilburn, Geoffrey, LL.B., with Honours, class II(ii), 1961
 Killick, Alan, B.Sc., with Honours in chemistry, class II(i), 1961
 King, Mrs. Adèle Cockshoot, M.A. (*in absentia*), 1960
 Bruce Alvin, Ph.D. (*in absentia*), 1960

GRADUATES

- King, Graham Robert, B.A., with Honours in classics, class II(ii), 1961
 John Michael, B.Sc. (agricultural studies), 1958; M.Sc., 1960
 Reginald, B.Sc., with Honours in civil engineering, class II(i), 1961
 Kirby, Carl Edward, B.Sc., with Honours in mining, class II(i), 1961
 Kirk, Michael, B.Sc., with Honours in civil engineering, class II(ii), 1961
 Kirkland, Caroline Mary, B.A., with Honours in English, class II(ii), 1961
 Kirpalani, Heeranand, B.Com., with Honours, class III, 1961
 Kitto, Graham, B.Sc., with Honours in textile chemistry, class II(ii), 1961
 Klinger, Michael, M.B., Ch.B., 1961
 Knapton, John James Fox, B.Sc., 1960
 Kohen, Ibrahim Albert Saul, B.A., with Honours in economics, class III, 1961
 Kroh, Jerzi, Ph.D. (*in absentia*), 1960
 Kumar, Satinder, B.Sc., 1960
- Laidler, Daphne Hilary Margaret, B.A., with Honours in general studies, class II(ii), 1961
 Lambert, Susan Elizabeth, B.A., with Honours in music, class II(ii), 1961
 Lambson, Margaret, M.B., Ch.B., 1960
 Lane, Marion Christine, B.Sc., with Honours in general studies, class II(i), 1961
 Lang, Joan Mary, B.A., with Honours in history, class II(i), 1961
 Langley, Alan Maxwell Clifford, B.A., with Honours in general studies, class I, 1961
 La Trobe, David Michael, B.A., with Honours in general studies, class II(ii), 1961
 Laurence, Gerald Steven, Ph.D. (*in absentia*), 1961
 Lavan, Michael Rodney, B.A., with Honours in history, class II(ii), 1961
 Law, Marion Hope Nelson, B.A., with Honours in French, class II(ii), 1961
 Lawrence, Brian Edward, B.A., with Honours in English, class II(i), 1961
 Gillian Brenda, B.A., with Honours in English, class II(ii), 1961
 Lawson, Omojowo Victoria, B.A., with Honours in English, class II(ii), 1961
 Layn, William John, B.Sc., with Honours in chemistry, class II(ii), 1961
 Leach, Barbara Joan, B.A., with Honours in Latin, class I, 1961
 Leather, Joshua Thomas, B.Sc., with Honours in mechanical engineering, class III, 1961
 Leaver, Margaret Winifred, B.Sc., with Honours in geography, class II(ii), 1961
 Lee, Eric John, B.A., with Honours in French, class III, 1961
 Susan, B.A., with Honours in general studies, class III, 1961
 Susan Jennifer, B.A., with Honours in general studies, class II(ii), 1961
 Lepist, Laos, B.Sc., with Honours in mechanical engineering, class III, 1961
 Leslie, John Peter, B.A., in general studies, 1961
 Lever, John Vernon, B.Sc., with Honours in physiology, class II(ii), 1961
 Levi, Michael Phillip, B.Sc., with Honours in chemistry, class I, 1961
 Lewis, Brian Wilcocks, B.Sc., 1961
 Lieberman, Arnold Edward, B.A., with Honours in French, class III, 1961
 Liebold, Bringfried George, B.A., with Honours in English, class II(ii), 1961
 Linder, Roger Walter, B.Sc., with Honours in general studies, class I, 1961
 Lister, William Brian, B.A., with Honours in Russian, class II(ii), 1961
 Littlewood, John Bradshaw, B.Sc. (agricultural studies), 1961
 Peter Stuart, B.Sc., with Honours in chemistry, class I, 1961
 Livesley, Brian, M.B., Ch.B., 1960
 Lloyd, Stephen Harris, LL.B., with Honours, class III, 1961
 Lockwood, Adrienne, B.Sc., with Honours in general studies, class II(ii), 1961
 Lodwick, Brian Martin, B.A., with Honours in history, class II(ii), 1961
 Long, David Geoffrey, B.A., with Honours in geography, class III, 1961
 Longley, Derek, B.A., with Honours in geography, class II(ii), 1961
 Lonsdale, Janet Sylvia, B.A., in special studies (history), 1961
 Lovell, Patrick Anthony, LL.B., with Honours, class I, 1961
 Love, Alexander Deville, B.A., with Honours in psychology, class I, 1961
 Lowe, John Keith, B.A., with Honours in modern languages, class II(ii), 1961
 Phillip Anthony, B.A., with Honours in economics, class II(ii), 1961
 Lucas, Roger, B.A., with Honours in economics, class III, 1961
 Ludley, John Harwood, B.Sc., with Honours in civil engineering, class I, 1956; Ph.D., 1960

- Lydon, John Ennis, B.Sc., with Honours in chemistry, class II(ii), 1961
 Lyth, Sylvia Elaine, M.B., Ch.B., 1960
- McArthur, Brian George, B.A., with Honours in English, class III, 1961
 McCann, Anthony Paul, B.Sc., with Honours in chemistry, class I, 1956; Ph.D., 1961
 John, B.Sc., with Honours in metallurgy, class III, 1961
 McCartney, John Keith, B.Sc., 1961
 McClorry, Brian Bimson, B.Sc., with Honours in civil engineering, class II(ii), 1961
 McConville, Lionel Gerard, B.A., in special studies (French), 1961
 McDermott, Michael, B.Sc., 1961
 McDonagh, Veronica, B.A., with Honours in general studies, class III, 1961
 Macfarlane, Robert, B.A., with Honours in general studies, class III, 1961
 McGinty, Kathryn, B.A., in special studies (Russian), 1961
 Machin, David, B.Sc., with Honours in general studies, class I, 1961
 Macintosh, John Angus Wolfe, B.Sc., 1960
 McKay, John, B.A., in special studies (French), 1961
 McKechnie, Robert Ian, LL.B., with Honours, class II(ii), 1961
 McKellow, Edwin Harry, B.A., with Honours in French, class II(ii), 1954; M.A., 1961
 McKeon, Thomas Michael, B.Sc., with Honours in chemical engineering, class I, 1961
 McNair, Hugh, B.Sc., in general studies, 1961
 McNamara, Anne-Marie Margaret, B.A., with Honours in psychology, class II(ii), 1961
 Madders, Rosemary Margaret, B.A., with Honours in economics, class II(ii), 1961
 Maden, Margaret Moira Carol, B.A., with Honours in geography, class II(ii), 1961
 Mallick, Joan, B.A., with Honours in classics, class II(ii), 1961
 Maltby, Janet Elizabeth, B.A., with Honours in general studies, class II(ii), 1961
 Mansfield, Keith, B.Sc., with Honours in general studies, class III, 1961
 Juliet Barbara, B.A., with Honours in French, class III, 1961
 Terence, B.Sc., with Honours in chemistry, class II(ii), 1961
 March, Christopher Nelson, B.Sc., with Honours in mechanical engineering, class II(i), 1961
 Markho, Putrus Hurmiz, B.Sc., with Honours in mechanical engineering, class III, 1961
 Marks, Lynda Bernette, B.A., with Honours in history, class II(ii), 1961
 Marsden, Brian Sutcliffe, B.A., with Honours in geography, class I, 1959; M.A., 1961
 Marshall, Stuart William, B.A., with Honours in general studies, class III, 1961
 Martin, Colin Frank, B.A., with Honours in German, class III, 1961
 George Christopher James, B.Sc., with Honours in chemistry, class II(i), 1961
 Michael John, B.Sc., in special studies (chemistry), 1961
 Stanley, B.Sc., with Honours in chemistry, class II(i), 1961
 Mason, Michael Christopher, B.Sc., with Honours in anatomy, class II(i), 1961
 Roger Stutard, B.Sc., with Honours in chemical engineering, class II(i), 1961
 Massey, Geoffrey, B.A., with Honours in geography, class II(ii), 1961
 Matthews, Barry, B.A., with Honours in geography, class II(i), 1958; M.A. (*in absentia*), 1960
 David Lawton, M.B., Ch.B., 1960
 Patricia Anne, B.A., with Honours in French, class II(i), 1961
 Peter Sidney, B.Sc., 1961
 Maude, Christopher William, B.Sc., 1961
 Gregory, B.Sc., with Honours in mining, class II(ii), 1961
 Herbert Derrik, B.Sc., with Honours in geography, class II(ii), 1961
 Maudsley, David Roy, B.Sc., 1961
 Mawson, Geoffrey, B.Sc., with Honours in agricultural bacteriology, class II(i), 1961
 May, Cedric Roger Paul, B.A., with Honours in French, class I, 1957; M.A., 1960
 Mayall, Geoffrey, M.Ed., 1961
 Mellor, Claude Michael, B.A., with Honours in history, class II(i), 1961
 Meltzer, Alan Sydney, M.B., Ch.B., 1960
 Mencher, Jennifer Barbara, M.B., Ch.B., 1960
 Mepsted, Leonard Charles, B.A., with Honours in general studies, class II(i), 1961
 Merrill, Susan, B.A., in special studies (French), 1961
 Merritt, John Keith, M.B., Ch.B., 1961

GRADUATES

Metcalfe, Bryan, M.A., 1961

- David William, B.Sc., with Honours in physics, class II(ii), 1961
- Mickleburgh, David Robert, B.Sc., with Honours in electrical engineering, class III, 1961
- Miles, David William, M.B., Ch.B., 1960
- Miller, Peter Clifford, B.Sc., with Honours in physics, class II(i), 1961
- Millington, Valerie, B.A., with Honours in history, class III, 1961
- Milner, Alan, LL.B., with Honours, class I, 1956; Ph.D., 1961
- John Roger, B.A., with Honours in sociology, class III, 1961
- Mills, Alan Keith, B.A., with Honours in economics, class III, 1961
- Margaret Christine, B.A., in general studies, 1961
- Miloszewski, Krzysztof, B.Sc., with Honours in physiology, class II(i), 1961
- Mitton, Ian Donald, B.Sc., 1961
- Monkman, Lewis James, Ph.D., 1961
- Montador, John Douglas, B.Sc., in general studies, 1961
- Moody, Derek Elstone, B.Sc., with Honours in physics, class I, 1954; Ph.D., 1960
- Moon, John Edward, B.Sc., in general studies, 1960
- Moorhouse, Elisabeth Susan, B.Sc., with Honours in general studies, class II(ii), 1961
- Moran, Vincent, B.Sc., with Honours in chemical engineering, class II(ii), 1961
- Morris, John, B.A., with Honours in Spanish, class II(i), 1957; Ph.D., 1961
- Peter David, B.A., with Honours in modern languages, class II(ii), 1961
- Mortlock, Hilary Ann, B.A., with Honours in French, class III, 1961
- Morton, Malcolm Peter, B.A., with Honours in geography, class II(i), 1961
- Mott, Mary Frances, B.A., with Honours in general studies, class III, 1961
- Mottershaw, Jon Howard, B.A., with Honours in geography, class III, 1960
- Moult, Roger Harvey, B.Sc., with Honours in physics, class III, 1961
- Moxham, William, B.Sc., with Honours in general studies, class I, 1961
- Mulligan, David George, B.A., with Honours in general studies, class II(ii), 1961
- Munro, Neil, B.Sc., with Honours in civil engineering, class III, 1961
- Murphy, Michael Thomas, B.A., with Honours in geography, class II(i), 1961
- Murtagh, Mary Virginia Wrangham, M.B., Ch.B., 1960

Naipaul, Mira, B.A., in general studies, 1961

- Neal, Christopher John, B.A., with Honours in general studies, class III, 1961
- Neilson, Richard Alvin, B.A., with Honours in geography, class I, 1958; M.A., 1961
- Nesbitt, Jeremy Roger Noel, B.A., with Honours in English, class III, 1961
- Nettl, Marietta Andrea, B.A., with Honours in sociology, class III, 1961
- Nettleton, Brian, B.A., with Honours in sociology, class II(ii), 1961
- Newbold, Martin Unett, B.Sc., in general studies, 1961
- Newson, Keith William, B.Sc., with Honours in electrical engineering, class III, 1961
- Newton, Lucy Joy, B.A., with Honours in French, class II(i), 1961
- Nield, Anthea Cecilia, B.A., with Honours in French, class II(i), 1961
- Nixon, Peter Hargreaves, B.Sc., with Honours in geology, class II(i), 1957; Ph.D. (*in absentia*), 1961
- Rosalind Parkinson, B.Com., 1961
- Noble, Shelagh Mary, B.A., in special studies (English), 1961
- Northrop, Ian Thomas, B.Sc., with Honours in metallurgy, class II(i), 1961
- Nowell, David Grahame, B.Sc., 1961
- Nutt, Anne Caroline, LL.B., with Honours, class II(i), 1961
- Nwanko, Clement Onyeguili, LL.B., 1961
- Nwizugbo, Vincent Amobi, LL.B., 1961

Oatley, Geoffrey Edward, B.Sc., with Honours in gas engineering, class I, 1959; M.Sc., 1961

- Obafemi, Olabisi Adunola, B.A., with Honours in general studies, class II(ii), 1961
- O'Brien, Mary Louisa, B.Sc., with Honours in general studies, class I, 1961
- Ogilvie, Eric, M.Ed., with distinction, 1961
- Ogle, Christopher John, B.Sc., with Honours in chemistry, class II(ii), 1961
- Ognall, Michael John, M.B., Ch.B., 1960

- Okereke, Silas Akwaeke, B.A., in special studies (economics), 1961
 Oldknow, Antony, B.A., with Honours in English, class II(ii), 1961
 O'Neill, Bernard, B.A., with Honours in theology, class II(i), 1961
 O'Reilly, Francis Paul, B.A., with Honours in general studies, class III, 1961
 Orton, Dennis George, B.Sc., with Honours in colour chemistry, class III, 1957; Ph.D., 1960
 Osborne, David Ernest, B.Sc., with Honours in physics, class II(ii), 1961
 O'Shea, Kevin Richard, B.Sc., with Honours in physics, class II(i), 1961
 Otto, Brian, B.A., with Honours in general studies, class II(ii), 1961
 Ould, Martin, B.Sc., with Honours in mining, class II(i), 1961
 Oxtoby, Robert, B.Sc., with Honours in gas engineering, class I, 1961
 Owen, Juliet Esmé, B.A., with Honours in general studies, class II(ii), 1961
 Ownsworth, John Martin, B.Sc., with Honours in agriculture, class III, 1961
- Page, Barrie George Nigel, Ph.D., 1961
 John Ellett, B.Sc., with Honours in chemistry, class III, 1961
 Michael, B.Sc., with Honours in general studies, class II(ii), 1961
 Palka, Jan Tadeusz, B.Sc., 1952; M.Sc., 1960
 Pantling, Michael John, B.A., with Honours in history, class II(i), 1961
 Panupong, Chira, B.Com., with Honours, class II(i), 1960
 Papadopoulos, Michael Zacharia, B.Sc., 1961
 Papazoglou, Theodore, B.Sc., 1955; M.Sc. (*in absentia*), 1961
 Parikh, Surendra Bapalal, B.Sc., 1961
 Parker, Brian, B.Sc., with Honours in metallurgy, class II(ii), 1961
 John Martin, LL.B., with Honours, class II(ii), 1961
 Monique Susanne Miriam Müller, B.A., with Honours in geography, class III, 1961
 Parkinson, David Brian, B.Sc., with Honours in physics, class II(i), 1961
 Mary Julie Gabrielle, B.A., with Honours in textile design, class I, 1961
 Terence Charles Redshaw, B.A., with Honours in English, class II(ii), 1961
 Parrott, George, B.A., with Honours in classics, class II(ii), 1961
 Parry, Brian, B.A., with Honours in history, class II(i), 1961
 Parsion, Mary Wendy Rosalind, M.B., Ch.B., 1960
 Parsons, Frank Maudsley, B.Sc., with Honours in physiology, class II, 1941; M.B., Ch.B., with Honours, class II, 1943; M.D., with distinction, 1961
 Paul Donald, B.Sc., with Honours in metallurgy, class II(i), 1961
 Partner, Peter, B.A., with Honours in history, class II(ii), 1961
 Pashley, David Anthony, B.Sc., with Honours in chemical engineering, class III, 1961
 Passler, John Franz Ernst, B.A., with Honours in geography, class II(ii), 1961
 Patterson, Brian David, B.Sc., with Honours in biochemistry, class II(i), 1961
 Patton, Peter Robin, B.A., with Honours in sociology, class III, 1961
 Pearson, John Edwin, B.Sc., with Honours in chemistry, class II(ii), 1961
 William Bertram, B.Sc., with Honours in civil engineering, class III, 1961
 Penrith, Judith Ann, B.Sc., with Honours in chemistry, class II(i), 1961
 Penswick, John Robert, B.Sc., with Honours in agricultural chemistry, class II(i), 1961
 Penwill, James Grant, B.Com., with Honours, class III, 1961
 Percival, Olga, B.Sc., with Honours in mathematics, class II(ii), 1961
 Phillippi, Marian May, B.A., with Honours in sociology, class II(ii), 1961
 Phillips, Lionel Gordon, B.Sc., with Honours in physics, class II(ii), 1961
 Pickard, Gordon Wilson, B.Sc., with Honours in electrical engineering, class II(i), 1961
 Pickering, John Ryden, LL.B., with Honours, class II(ii), 1961
 Pickup, Ernest, B.A., with Honours in general studies, class II(ii), 1961
 Piercy, Arthur Frederick, B.Com., with Honours, class III, 1961
 Pilling, Brian, B.Sc., with Honours in colour chemistry, class II(ii), 1961
 Geoffrey, B.A., with Honours in economics, class II(i), 1961
 Pinfield, Lawrence Thomas, B.Sc., with Honours in mechanical engineering, class II(i), 1961
 Pirie, Elizabeth Ann, B.A., with Honours in geography, class II(ii), 1961
 Pitt, Gillian Marjorie, B.A., with Honours in English, class II(ii), 1961

GRADUATES

- Platts, Sydney David, M.B., Ch.B., 1960
 Plunkett, Michael Edward, B.Sc., with Honours in the chemistry of leather manufacture, class II(ii), 1961
 Poilly, Jean-Noël, M.B., Ch.B., 1960
 Pollard, Alan, B.Sc., with Honours in chemistry, class II(ii), 1961
 Popplewell, Donald, B.Sc., with Honours in the chemistry of leather manufacture, class II(ii), 1961
 Potts, Geoffrey, B.A., with Honours in geography, class III, 1961
 Powell, Alan Gwynne, B.A., with Honours in history, class II(ii), 1961
 Christopher, B.Sc., with Honours in mechanical engineering, class III, 1961
 Michael Timothy, B.Sc., with Honours in agriculture, class II(ii), 1961
 Prescott, Roger, B.Sc., with Honours in physics, class II(i), 1961
 Price, Judith Louise, B.A., with Honours in geography, class III, 1961
 Muriel, B.Sc., with Honours in chemistry, class III, 1961
 Proudlock, Geoffrey, B.Sc., 1961
 Punter, Anthony Clive, B.A., with Honours in German, class III, 1961
- Race, Patricia Mary, B.A., with Honours in general studies, class III, 1961
 Rak, Andrzej Witold, B.Sc., in special studies (chemistry), 1961
 Ramsbottom, Dennis, B.Sc., with Honours in physics, class III, 1961
 William Neil, B.Sc., with Honours in chemistry, class II(ii), 1961
 Randles, Anne, M.B., Ch.B., 1960
 Raper, John Malcolm, M.B., Ch.B., 1961
 Rathbone, Peter, B.Sc., with Honours in chemistry, class II(i), 1957; Ph.D., 1961
 Rathmell, John, B.Sc., with Honours in chemistry, class II(i), 1961
 Rawston, Ian, B.A., with Honours in general studies, class II(ii), 1961
 Read, Thomas Bonamy, B.A., with Honours in general studies, class II(ii), 1961
 Reay, Anthony, B.Sc., with Honours in geology, class II(i), 1961
 Redpath, Charles Richard, B.Sc., with Honours in chemistry, class II(i), 1957; Ph.D., 1960
 Reed, Stuart Bennett, B.Sc., with Honours in gas engineering, class II, 1958; Ph.D., 1961
 Reilly, Edwin George, B.Sc., with Honours in general studies, class III, 1961
 Richardson, Ann Margaret, B.A., with Honours in general studies, class II(ii), 1961
 Donald Gavin, B.Sc., with Honours in mechanical engineering, class II(ii), 1961
 Gerald Arthur, B.Sc., with Honours in colour chemistry, class II(i), 1961
 John, B.A., with Honours in French, class III, 1961
 William Henry, B.Sc., 1961
 Richmond, Michael John, M.B., Ch.B., 1960
 Riddell, Gillian Lesley, B.A., with Honours in geography, class II(ii), 1961
 Riley, Robert Michael, M.B., Ch.B., 1961
 Rimmer, Bernard, B.Sc., with Honours in civil engineering, class II(i), 1961
 Ritchie, John James, B.Sc., with Honours in civil engineering, class III, 1961
 Rivlin, Geoffrey, LL.B. (*aegrotat*), 1961
 Roberts, Anthony Howard Norman, B.Sc., with Honours in gas engineering, class II(i), 1961
 Celia Anne, B.A., with Honours in general studies, class II(ii), 1961
 Daniel John, B.Sc., 1960
 Kathleen Rosemary, B.Sc., with Honours in pharmacy, class II(i), 1961
 William Neil, Ph.D. (*in absentia*), 1961
 Robertson, Alan Forbes, B.Sc., with Honours in chemical engineering, class II(ii), 1961
 Byron Maurice Willan, B.A., with Honours in sociology, class III, 1961
 Colin Crawford, M.B., Ch.B., 1960
 Michael Alan, B.Sc., with Honours in electrical engineering, class II(ii), 1961
 Robinson, George Leslie, B.Sc., with Honours in civil engineering, class I, 1952; Ph.D., 1960
 John Philip, B.A., with Honours in geography, class II(i), 1961
 Pauline Brenda, B.A., with Honours in German, class II(ii), 1961
 Rose, Gillian Margaret, B.A., with Honours in French, class II(i), 1961
 Rollett, Robert Henry, B.A., in general studies, 1961

- Rolls, Bruce Grounds Renham, B.Ch.D., 1961
 Rosengarten, Terence Harold, M.B., Ch.B., 1960
 Routledge, Janet Kathleen, B.A., with Honours in French, class III, 1961
 Roxby, John David Harrison, B.A., with Honours in German, class II(ii), 1961
 Rowe, Jean Ann, B.A., with Honours in English, class II(ii), 1961
 Royle, Reginald John, B.A., with Honours in philosophy and politics, class III, 1961
 Rudkin, Clive, B.A., with Honours in French, class III, 1961
 Rutherford, Derek, B.A., with Honours in theology, class II(ii), 1961
- Saddleton, Doreen Vipond, B.A., in general studies, 1961
 Salmons, Francis William, B.Sc., with Honours in general studies, class II(ii), 1961
 Sanderson, John Henry, B.A., with Honours in general studies, class III, 1961
 Sands, Basil Courtney, B.Sc., with Honours in textile chemistry, class II(ii), 1961
 Saul, Geoffrey Hugh, B.Sc., 1961
 Gillian Christine, B.Sc., with Honours in chemistry, class II(ii), 1961
 Saunders, Brian Hampton, LL.B., with Honours, class III, 1961
 Savage, Alethea Joan, B.A., with Honours in general studies, class II(i), 1961
 Sawko, Felician, B.Sc., with Honours in civil engineering, class I, 1958; M.Sc., 1960
 Sayer, Norma, B.A., with Honours in geography, class III, 1961
 Rodney, B.A., with Honours in German, class III, 1961
 Scarlett, George, B.Sc., with Honours in chemistry, class II(i), 1961
 Schefer, Peter Valentine, B.Sc., with Honours in physics, class I, 1961
 Schroeder, Peter Robin, B.Sc., with Honours in chemistry, class III, 1961
 Schofield, James, B.Sc., with Honours in physics, class II(ii), 1961
 Scholes, Edward, B.A., with Honours in Latin, class II(i), 1959; M.A., 1961
 Scotney, John, B.Sc., with Honours in chemistry, class II(ii), 1961
 Scott, George Reilly, B.Sc., with Honours in electrical engineering, class II(i), 1961
 Jean, B.A., with Honours in theology, class III, 1961
 Philip Gibson, B.Sc., with Honours in mathematics, class II(ii), 1961
 Philip Stephen, B.A., with Honours in French, class III, 1961
 Thomas Arthur, B.Sc., with Honours in biochemistry, class II(i), 1957; Ph.D., 1960
 Scotter, Patrick Roy, M.B., Ch.B., 1960
 Schumacher, Eric Graham, B.Sc., with Honours in civil engineering, class I, 1957; Ph.D., 1961
 Sealby, Anne Sparks, B.Sc., with Honours in chemistry, class II(ii), 1961
 Seed, Mary, B.A., with Honours in history, class II(ii), 1961
 Seneviratne, Edward Charles Anthony, LL.B., 1961
 Senior, Henry Stanley, B.Sc., with Honours in electrical engineering, class II(ii), 1961
 Michael Wraith, B.A., with Honours in geography, class II(i), 1954; M.A., 1960
 Sew-Kwan-Kan, Ela Ginette, B.A., in general studies (*aegrotat*), 1961
 Shah, Jasvant Babaldas, B.Sc., 1961
 Vinodchandra Jatashanker, B.Sc., with Honours in electrical engineering, class II(i), 1961
 Sharp, Valerie Joan, B.Sc., 1961
 Shaw, John, B.Sc., with Honours in chemical engineering, class II(ii), 1961
 Michael Howard, B.Sc., with Honours in chemistry, class II(ii), 1961
 Shearman, Brian Leslie, B.A., with Honours in classics, class II(ii), 1961
 Sheldon, Ian, B.Sc., 1961
 Shelmerdine, John, B.Sc., with Honours in general studies, class II(ii), 1961
 Shenton, Ernest Frederick, B.A., with Honours in English, class II(ii), 1961
 Sheppard, Marian Kathleen, B.A., with Honours in English, class II(i), 1961
 Sherrad, Brian Henry, B.A., with Honours in general studies, class II(ii), 1961
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 Shyvers, Roy Trevor, B.Sc., with Honours in chemistry, class II(i), 1961
 Simison, Aileen Mairi, B.Sc., with Honours in mathematics, class II(i), 1961
 Simm, Peter Lawrence, B.A., with Honours in French, class II(ii), 1961
 Simons, Peter, B.Sc., in general studies, 1961

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- Simpkin, Clifford Robert, B.Sc., with Honours in general studies, class II(i), 1961
- Simpson, Andrew Archibald, B.Sc., with Honours in civil engineering, class III, 1961
- Desmond, LL.B., with Honours, class II(ii), 1961
- John Anthony, B.Sc., with Honours in general studies, class I, 1958; M.Sc., 1960
- Singh, Jamuna Prasad, B.Sc., 1961
- Konthoujam Rajendra, Ph.D. (*in absentia*), 1961
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- John Barry, B.Sc., in general studies, 1961
- Keith, B.A., with Honours in general studies, class III, 1961
- Keith William, B.A., with Honours in music, class III, 1961
- Malcolm Grenville, B.Sc., with Honours in colour chemistry, class II(ii), 1961
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- Philip Arthur, B.Sc., with Honours in textile industries, class I, 1953; Ph.D., 1960
- Robin Oldham, B.Sc., with Honours in agricultural botany, class II(ii), 1961
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- Underwood, David Rhodes, B.Sc., with Honours in mechanical engineering, class III, 1961
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- Vail, John Randolph, Ph.D., 1960
 Vallely, Francis, B.Sc., with Honours in chemistry, class II(ii), 1957; Ph.D., 1961
 Vamplew, Annette, B.A., with Honours in history, class III, 1961
 Varley, Anne Rosemary, B.A., with Honours in general studies, class III, 1961
 James Frederick, B.Sc., with Honours in chemical engineering, class II(i), 1961
 Rodney, B.Sc., with Honours in chemistry, class II(i), 1961
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 Venn, John Henry Louis, B.Sc., with Honours in chemistry, class III, 1961
 Vickers, Terence, M.B., Ch.B., 1960
 Villers, Mrs. Milda, B.A., with Honours in textile design, class I, 1958; M.A., with distinction, 1960
 Viner, Elizabeth Mary, B.A., with Honours in sociology, class II(ii), 1961
 Vines, Herbert Dearden, B.Sc., 1961
 Vowles, Bernard Wilfred Alan, B.A., with Honours in modern languages, class III, 1961
- Wadsworth, David John, M.B., Ch.B., 1960
 Wainwright, Norman, B.Sc., with Honours in physics, class III, 1961
 Paul, B.Sc., with Honours in colour chemistry, class II, 1957; Ph.D., 1961
 Waite, Geoffrey Alfred, LL.B., with Honours, class II(ii), 1961
 Wakelin, Martyn Francis, B.A., with Honours in English, class II(i), 1959; M.A., with distinction, 1960
 Wales, John Kenneth, M.B., Ch.B., 1960
 Walker, Barry Egerton, M.B., Ch.B., 1961
 David Crosby, Ph.D. (*in absentia*), 1960
 Norma Wendy, B.A., with Honours in general studies, class III, 1961
 Pamela Janet, M.B., Ch.B., 1961
 Walls, William David, M.B., Ch.B., 1960
 Walters, Anthony David, B.Sc., with Honours in general studies, class III, 1961
 Wannop, Ann Georgina Hornby, B.A., with Honours in economics, class II(ii), 1961
 Wapshire, Anthony John, Ph.D., 1960
 Ward, Bernard Irving, B.A., with Honours in Latin, class II(i), 1961
 David, B.A., with Honours in geography, class I, 1959; M.A. (*in absentia*), 1961
 John, B.A., with Honours in combined studies, class II(i), 1961
 Marjorie, B.A., with Honours in general studies, class III, 1961
 Trevor Charles, B.Sc., with Honours in mechanical engineering, class II(ii), 1961
 Wardle, Peter, B.Sc., with Honours in physics, class II(ii), 1961
 Wardley, John Gordon, B.Sc., with Honours in civil engineering, class II(ii), 1961
 Wareing, John, B.A., with Honours in geography, class II(i), 1961
 Warner, Adrian Mark, B.Sc., with Honours in mechanical engineering, class III, 1961
 Watkin, Stanley Denton, B.Sc., 1961
 Watkins, Richard Anthony, B.A., with Honours in English, class II(i), 1961
 Watson, Joan Alice, M.B., Ch.B., 1960
 Laurence, B.Sc., 1961
 Michael Hill, B.Sc., with Honours in chemistry, class II(i), 1961
 Weatherhead, Calvin, B.A., with Honours in general studies, class III, 1961
 Webb, Michael John, B.Sc., with Honours in physics, class II(ii), 1961

- Webster, Lorna, B.A., with Honours in sociology, class III, 1961
 Roger, B.Sc., with Honours in mathematics, class II(i), 1961
 Trevor, LL.B., with Honours, class III, 1960
- Welford, John Anthony, B.Sc., with Honours in physics, class I, 1961
 John Ronald, B.Sc., with Honours in general studies, class II(ii), 1961
- Wenman, Graham John, B.Sc., 1961
- Weston, John Graham, B.Sc., with Honours in mining, class I, 1960; with Honours in mechanical engineering, class III, 1961
- Whalley, Patricia Mary, B.Sc., with Honours in physics, class I, 1961
- Whatmore, Graham Copley, B.A., with Honours in modern languages, class III, 1961
- Wheelhouse, Heather Lily Rose, B.Sc., with Honours in general studies, class I, 1961
 Kathleen Ann, B.A., with Honours in general studies, class III, 1961
- Whelan, Michael Francis, B.Sc., with Honours in physics, class II(ii), 1961
- Whiter, David, B.A., with Honours in general studies, class III, 1961
- Whitfield, Michael, B.Sc., with Honours in chemistry, class I, 1961
 Richard Charles, B.Sc., with Honours in chemistry, class I, 1960
- Wightman, Wilfred Eric, Ph.D., 1960
- Wilde, Ernest, B.Sc., with Honours in mathematics, class I, 1957; Ph.D., 1961
- Williams, Alwyn Lloyd, B.A., in general studies, 1961
 David Wyndham, B.Sc., with Honours in geology, class II(ii), 1961
 Edward James, M.B., Ch.B., 1960
 Ian, B.Sc., with Honours in chemical engineering, class II(i), 1961
 Melvyn Charles, B.A., with Honours in general studies, class III, 1961
 Peter, B.Sc., in general studies, 1961
 Ralph, B.A., with Honours in sociology, class III, 1961
 Stanley George, B.Sc., with Honours in chemistry, class II(i), 1961
 Susan Gower, B.A., with Honours in English, class II(ii), 1961
- Williamson, David Vincent Stewart, B.Sc., with Honours in gas engineering, class I, 1958; Ph.D., 1961
- Willis, Keith, B.A., with Honours in economics, class III, 1961
- Wilson, Albert, B.Sc., 1960
 Arthur Richard, LL.B., with Honours, class II(ii), 1961
 Frank Keith, B.A., with Honours in general studies, class II(ii), 1961
 Michael Edwin, M.B., Ch.B., 1960
 Richard Francis, LL.B., with Honours, class II(i), 1961
 Robert Alan, B.A., in special studies (economics), 1961
- Windley, Peter Francis, Ph.D., 1960
- Wisell, Barrie, B.Sc., with Honours in general studies, class I, 1961
- Wood, Alison Mary Wainman, B.A., with Honours in English, class II(i), 1961
 Brian, B.Sc., with Honours in mechanical engineering, class I, 1956; Ph.D., 1961
 Christopher David Malcolm, B.Sc., with Honours in mechanical engineering, class II(i), 1961
 Eileen, B.A., with Honours in Russian, class III, 1961
 Geoffrey Peter, B.A., with Honours in history, class II(i), 1961
 Gerard Edward, B.Sc., with Honours in mining, class II(i), 1961
 Jessie, B.A., in general studies, 1961
 John Martin, B.Sc., with Honours in bacteriology, class II(i), 1961
 Kenneth Fowler, M.B., Ch.B., with Honours, class II, 1946; Ch.M., 1961
 Randolph William, B.Sc., 1961
- Woodman, Grace Mary, B.A., in general studies, 1961
- Woodroffe, Daniel Michael, B.Sc., with Honours in electrical engineering, class II(ii), 1961
- Woods, Marion, B.A., with Honours in general studies, class III, 1961
 Robert Charles, B.Sc., in special studies (physics), 1961
- Woodward, Mark Nicholas, LL.B., with Honours, class III, 1961
 Maureen Ann, B.Sc., with Honours in general studies, class II(ii), 1961
 Roland, B.A., with Honours in general studies, class III, 1961
- Woolley, Elizabeth Ann, LL.B., with Honours, class II(ii), 1961
- Woolmer, Kenneth John, B.A., with Honours in economics, class I, 1961
- Wooton, John Martin Gower, B.A., with Honours in geography, class II(ii), 1961

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- Worsfold, Philip, B.Sc., with Honours in civil engineering, class III, 1961
Worthy, John, B.A., with Honours in English, class II(ii), 1961
Worton, Joan, B.A., with Honours in geography, class II(ii), 1961
Wray, Frederick John, B.Sc., with Honours in agricultural chemistry, class III, 1961
 Pamela Joan, B.Sc., with Honours in anatomy, class I, 1961
Wright, David Edmund, B.Sc., with Honours in mining, class III, 1961
 Donald Owen, B.A., with Honours in German, class II(i), 1961
 Janet, B.A., with Honours in geography, class II(ii), 1961
 John Williamson, B.Sc., with Honours in general studies, class III, 1961
 Kenneth, B.Sc., in general studies, 1961
 Michael David, B.Sc., 1961
- Yardley, Christopher Barry, B.Sc., 1961
Yates, Charles Geoffrey, B.Sc., with Honours in colour chemistry, class III, 1958; M.Sc., 1961
Yeomans, Marjorie, M.B., Ch.B., 1960
Young, John Wesley, B.A., with Honours in theology, class III, 1961

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BARCLAY, The Rev. R. A., M.A., B.D., 18, Regent Park Avenue, Leeds, 6	121, 131, 220 151
BARKER, Emeritus Professor A. F., M.Sc., Merino Cottage, Portland, Victoria, Australia	111
BARKER, A. N., M.Sc., Ph.D., 482, Halifax Road, Buttershaw, Bradford	126, 134 179
BARKER, L., B.Sc., Ph.D., A.R.I.C., 70, Victoria Road, Morley, Leeds	174
BARLOW, A. J. E., M.D., L.R.C.P., M.R.C.S., The Royal Infirmary, Huddersfield	188
BARR, Miss A. M., B.Sc.(Econ.), 1, Grosvenor Terrace, Leeds, 6	208
BARRACLOUGH, F., C.B.E., M.A., Education Offices, County Hall, Northallerton	139
BARRETT, W., B.A., Doc. de l'Université, 39, Fearnville Grove, Leeds, 8	121, 131, 133 159
BARRITT, Mrs. JOHN, 12, Laurel Bank Court, The Turnways, Leeds, 6	106
BARROWS, G. R., Greenfield Cottage, Old Lane, Bramhope, near Leeds	172
BARROWCLOUGH, H., Tanners Mead, Strensall, York	211
BARTHOLOMEW, Mrs. C. G., 5, The Turnways, Leeds, 6	210
BARTHOLOMEW, Mrs. PHYLLIS L., Thornhills, Breary Lane, Bramhope, Leeds	209
BARTLEY, D. D., B.Sc., Ph.D., 19, Bankfield Grove, Leeds, 4	124 166
BATES, Miss M., 50, Conference Road, Leeds, 12	159
BATTISON, H., A.I.S.T., 28, Ebor Place, Leeds, 6	196

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B

	Staff List
BAULCH, D. L., Ph.D., M.Sc., Devonshire Hall, Cumberland Road, Leeds, 6	164
BAXANDALL, H., M.A., 8, Sunny Bank Road, Edgerton, Huddersfield	121, 138, 214, 216, 217
BAXTER, Miss J., Smithy Farm, Cookridge, Leeds, 16	201
BAYLEY, G. A., B.Sc., Thorpe Secondary School, Bradford	210
BEACHCROFT, Major MAURICE, O.B.E., LL.D., M.A., Sun House, Chelwood Gate, Sussex	141
BEASLEY, The Rev. FATHER H., C.R., B.A., Hostel of the Resurrection, Springfield Mount, Leeds, 2	59
BEAUMONT, Miss V., 44, Wetherby Road, Leeds, 8	208
BEAVER, J. FOSTER, O.B.E., J.P., Messrs. J. Beaver & Co., Park Road Mills, Bingley	210
BECK, Miss S., 263, Stainbeck Lane, Leeds, 7	100
BEDFORD, Miss L. P., 28, Burn Bridge Oval, Harrogate	210
BEE, Miss W., 23, Walmsley Road, Leeds, 6	165
BEELEY, P. R., B.Met., Ph.D., F.I.M., 37, Kirkwood Drive, Leeds, 16	204
BEHRENS, EDGAR C., C.B.E., J.P., Colliergate, Bradford	126, 134
BEIGHTON, E., B.Sc., Ph.D., 5, Sedbergh Park, Ilkley	174
BEIGHTON, Mrs. DORIS E., 5, Sedbergh Park, Ilkley	57
BELL, Miss A. M., Northbrooke House, Harrogate Road, Rawdon	167
BELL, C. J., B.A., 23, Alderhill Avenue, Leeds, 6	168
BELL, E., 40, Springbank Road, Farsley	210
BELL, J. W., B.Sc., Ph.D., 4, Cheltenham Avenue, Ben Rhydding, Ilkley	160
BELL, Miss P., B.A., M.A., 5, Archery Terrace, Leeds, 2	178
BELL, QUENTIN C. S., M.A., Highthorne House, Shadwell Lane, Moortown, Leeds, 17	176
BELL, T., 38, Moor Road, Leeds, 6	203
BELL, W., 7, Redshaw View, Leeds, 12	70, 71, 85, 121, 131, 218
BELLAMY, C. V., B.Sc., 3, Mount Royal, Horsforth, Leeds	153
BELLAMY, R., M.A., 147, Victoria Road, Leeds, 6	121
BELTON, J. W., Ph.D., D.Sc., 10, Montpelier, Cliff Road, Leeds, 6	175
BENEDICT, Mrs. M., 3, Austhorpe Grove, Leeds, 15	124, 138
BENFIELD, H., M.A., Harehills County Secondary School, Leeds, 8	123, 132
BENN, E. C., M.B., Ch.B., D.P.H., Seacroft Hospital, Leeds, 14	155
BENN, T. V., B.A., Ph.D., 3, The Turnways, Leeds, 6	62, 66, 74, 80, 85, 102, 103, 124, 133, 139, 141, 216, 219
BENNETT, A. R., M.Sc., M.Inst.Gas E., Messrs. Radiation, Ltd., Radiation House, Birmingham, 6	163
BENNETT, E. W., M.Sc., A.M.I.C.E., 91, Becketts Park Drive, Leeds, 6	210
BENNETT, R. C., M.B., Ch.B., 65, Tinshill Lane, Leeds, 6	126, 133, 215
BENSKIN, Miss M. C., 5, Hartley's Terrace, Thorner, Leeds	128
BERESFORD, Professor M. W., M.A., Moor Croft, Queen's Road, Ilkley	191
BERKIN, Miss S., 26, Mexborough Grove, Leeds, 7	180
BERMEJO MARCOS, M., Dr. en Fil. y Let., 25, Ash Grove, Leeds, 6	80, 107, 123, 131, 139
BERRY, Mrs. S. H. W. N., Killearn, 20, Victoria Crescent, Horsforth, Leeds	155
BERRY, Major W., Croydon Works, Leeds	210
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.	121
BEST, J. S., B.Sc., 5, Allerton Grange Drive, Leeds, 17	79
BIBBY, E. E., M.A., Yarlshber, 9, Primley Park Road, Leeds, 17	174
BICKERTON, W. H., M.I.E.(Prac.), 92, Tempest Road, Leeds, 11	182
BIELBY, A. R., M.A., Huddersfield New College, New Hey Road, Huddersfield	119, 143
BIELBY, Miss D., 30, Heathfield Terrace, Leeds, 6	170
BINGLE, J. P., M.A., B.M., B.Ch., M.R.C.P., D.Obst.R.C.O.G., School of Medicine, Leeds, 2	142
	180
	188

The list of members of staff, arranged in departments, is on pp. 145 to 212

NAMES AND ADDRESSES

			Staff List
BINKS, E., White Lodge, Adel Lane, Leeds, 16		85	
BINNEY, Mrs. J. W., 14, St. George's Road, Harrogate			210
BINYON, D. E. F., M.A., Belgravia, Skipton-in-Craven	121, 131, 216		145
BIRCH, W. N., Montpelier House, Harrogate		57	
BIRD, C. L., M.Sc., F.R.I.C., F.S.D.C., 3, Gainsborough Drive, Leeds, 16	126, 133		177
BIRD, G. G., M.B., Ch.B., 19, Coniston Avenue, Leeds, 6		128	181
BIRD, P., M.A., A.M.A., Cartwright Memorial Hall, Bradford, 8		71	
BIRD, R., 4, Lynton Gardens, Harrogate			211
BIRKENSHAW, GEORGE E., C.B.E., F.T.I., Messrs. David Dixon & Son, Ltd., Cardigan Mills, Leeds, 4		100	
BISHOP, T. G., B.A., B.Sc.(Econ.), Ph.D., 35, Reeth Road, Richmond, Yorks.	121, 138, 139		201
BLACK, C. J., B.Sc., B.Litt., Dip.Agric.Econ., N.D.A., 32, Gledhow Wood Grove, Leeds, 8		126	179
BLACK, G. W., M.B., B.S., F.R.C.S., 43, Park Square, Leeds, 1	128, 136		191
BLACK, Miss M. M., M.A., The Girls' Grammar School, Bradford		142	
BLACKAH, Miss D., 16, Mayville Avenue, Leeds, 6			198
BLACKBURN, Miss E. M., M.A., High Brent, Arnside, via Carnforth, Lancs.	119		
BLACKBURN, Alderman GEORGE, F.T.I., J.P., Oakville, Liversedge, Yorks.		100	
BLACKBURN, Miss K., 47, Servia Hill, Leeds, 7			165
BLACKBURN, W. H., M.Sc., Ph.D., M.Inst.F., M.Inst.Gas.E., Secker Villas, Warmfield, near Wakefield			174
BLACKLEDGE, W., F.R.S.A., A.I.B.P., A.R.P.S., Whitegates, 4, White Grove, Leeds, 8			208
BLAGG, C. R., M.B., Ch.B., M.R.C.P., 59, North Park Avenue, Leeds, 8	128		187
BLAIR, J., B.Sc., F.R.I.C., 71, Castellan Avenue, Gider Park, Romford, Essex	59		
BLIGHT, R., M.B., B.S., D.Obst.R.C.O.G., 15, Norfolk Mount, Leeds, 7			184
BLOOD, H., M.B.E., 72, Moor Grange View, Leeds, 16			211
BLOOM, Miss A., 69, Kedleston Road, Leeds, 8			195
BLOOMFIELD, Miss A. Y., 601, Scott Hall Road, Leeds, 7			180
BLOXHAM, Miss JOYCE, M.B.E., B.A., Woodbourne Cottage, behind 20, North Hill Road, Leeds, 6	69, 74, 76, 94, 98, 104, 105, 106, 121, 131, 133, 141, 216		205
BLYTH, Miss I. HELEN M., M.B., Ch.B., D.Obst.R.C.O.G., 33, Oxford Road, Wakefield			196
BOAZ, T. G., M.B.E., M.A., Dip.Agric., 59, Old Park Road, Leeds, 8	126, 133		178
BODDINGTON, W. H., Borough Treasurer, Town Hall, Bridlington		214	
BOGDAN, A., M.D., M.R.C.P.E., D.C.H., Glebe House, The Terrace, Boston Spa, Yorks.			189
BOLTON, L. W., A.C.W.A., A.C.I.S., 13, Moor Park Avenue, Leeds, 6			180
BOND, Miss E. M., St. Andrews, Upper Sutherland Road, Hipperholme, Halifax			190
BOND, J. G., B.A., M.I.Min.E., 18, Woodthorpe Lane, Wakefield	59, 92		
BONSER, Mrs. GEORGINA M., M.D., F.R.C.P., M.R.C.S., 10, Elmete Court, North Lane, Leeds, 8	96, 128, 136, 214		186
BOOKMAN, Miss C., Flat 3, 25, Bagby Road, Leeds, 2			146
BOOTH, Mrs. B. J., 73, Moorlands Road, Dewsbury			210
BOOTH, C. G., Messrs. Booth Bros., Drighlington		100	
BOOTH, Miss E. M., A.M.I.A., Greenfield House, Bramley, Leeds, 13			188
BOOTH, Miss J. H., Greenways, The Sycamores, Bramhope, Leeds			200
BOOTHMAN, S., 7, Rokeby Gardens, Leeds, 6			209
BORRAS, F. M., M.A., Wansbeck, 9, Elmete Grove, Leeds, 8	121, 131		148
BOSANQUET, G. C., Summer Lodge, Wrotham, Kent			59
BOSWORTH, Miss EUGENIE M., M.A., 8, Grange Court, Leeds, 6	121, 132, 215		152
BOUFFLER, E. O., Carnegie Physical Training College, Beckett Park, Leeds, 6			
	87, 141		
BOULBY, M., M.A., Ph.D., 42, Gainsborough Avenue, Leeds, 16		121	148
BOULTWOOD, Miss MYRTLE E. A., M.A., Department of Education, The University, Leeds, 2	87, 121, 131, 141, 214, 215, 216		152

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B

		Staff List
BOWDEN, Mrs. K. M., 2, Coupland Road, Garforth, Leeds		209
BOWEN, T. J., M.A., B.Sc., 4, Tinhill Drive, Leeds, 16	128	182
BOWERS, J. F., M.Sc., Ph.D., 19, Morritt Avenue, Leeds, 15	124	159
BOWES, J. H., British Leather Manufacturers' Research Association, Milton Park, Egham, Surrey	222	
BOYD, G. I., M.D., F.R.C.S.E., 59, Weetwood Lane, Leeds, 16	128, 132, 136	181
BOYDE, P., M.A., Department of Italian, The University, Leeds, 2	121	148
BOYLE, T. McM., M.B., Ch.B., D.L.O., F.R.C.S., 27, Clarendon Road, Leeds, 2	128, 136	192
BOYNTON, L. O. J., M.A., Department of History, The University, Leeds, 2	121	149
BRACEWELL, C. C., M.C., M.A., Thornes House School, Wakefield	87	
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	
BRADLEY, D., B.Sc., Ph.D., A.M.I.Mech.E., 36, Kingsley Avenue, Leeds, 16	126	170
BRADLEY, Miss P., Greystones, Bolling Road, Ilkley		196
BRADLEY, R. S., M.A., Sc.D., F.R.I.C., 25, Batcliffe Drive, Leeds, 6	124, 133	162
BRADSHAW, Professor D. B., M.A., M.B., B.Ch., B.A.O., D.P.H., Public Health Department, 25, East Parade, Leeds, 1	86, 107, 128, 136	195
BRADSHAW, L. R. A., B.Sc., Ph.D., 16, Chestnut Avenue, Leeds, 6		187
BRAMALL, Miss B., 4, Henley View, Rawdon, Leeds		204
BRAMHALL, Miss J., Chalgrove, Skircoat Green, Halifax	199	204
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		205
BRATT, Mrs. J., Flat 1, 78, Chapel Lane, Leeds, 6		210
BRAY, Alderman J. A., 10, Royal Terrace, Scar Lane, Milnsbridge, Huddersfield	139	
BRAYSHAW, G. S., B.Sc., Ph.D., A.M.I.E.E., Sen.M.I.R.E., Far View, Creskeld Gardens, Bramhope, Leeds	126, 134	171
BRAYSHAW, L., 62, Marldon Road, Northowram, Halifax		176
BREBNER, Miss L. W., M.A., 1, Grosvenor Terrace, Leeds, 6	121, 132, 215	148
BREESE, D. I., M.Sc., Temple Moor School, Leeds, 15	141	
BREThERICK, Councillor A. R., 57, St. Paul's Street, Leeds, 1	95	
BRIGGS, Major DONALD H. CURRER, M.B.E., M.A., 7, North Hill Road, Leeds, 6	62, 66, 81, 101, 104	
BRIGGS, Mrs. DONALD H. CURRER, J.P., 7, North Hill Road, Leeds, 6	104	
BRIGGS, P. S., Messrs. T. N. & F. H. Briggs (Tanners) Ltd., Victoria Tannery, Waring Street, Leicester	90	
BRINDLEY, J., B.Sc., Ph.D., Devonshire Hall, Cumberland Road, Leeds, 6	124, 134,	159
BRISCOE, P. A., B.Sc., Ph.D., F.R.I.C., 10, Wheatlands Road, Harrogate	124, 132, 133, 215, 218	207
BRISTOW, Mrs. G. M., 28, Buckstone Oval, Leeds, 17		164
BROADHEAD, E., M.A., B.Sc., D.Phil., F.R.E.S., Birchwood, 26, Mavis Avenue, Leeds, 16	124, 133	209
BROADHEAD, Mrs. E. C., B.Sc., Birchwood, 26, Mavis Avenue, Leeds, 16		165
BROMLEY, Mrs. M. H., 244, Killinghall Road, Bradford, 8		166
BROOK, F., F.D.S., H.D.D., R.C.S.(Ed.), L.D.S., 12a, Clarendon Road, Leeds, 2	128, 136	210
BROOK, G., B.Sc., Ph.D., 5, Oakwood Avenue, Birkenshaw, Bradford	126, 135	197
BROOK, N., B.Sc.(Eng.), Ph.D., G.I.Mech.E., A.I.Min.E., 25, Pullan Avenue, Eccleshill, Bradford, 2	126, 134	175
BROOK, P. R., B.Sc., Ph.D., 7, Regent Park Terrace, Leeds, 6	124	171
BROOKMAN, P. E., B.Com., 15, Stonedale Crescent, Darlington	123, 138	165
BROOKS, B. G., D.H., 25, Moor Park Villas, Leeds, 6		202
BROOMHEAD, R., M.B., Ch.B., F.R.C.S., 20, Clarendon Road, Leeds, 2	128, 136	211

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NAMES AND ADDRESSES

		Staff List
BROTHERTON-RATCLIFFE, GEORGE, B.A., Messrs. Brotherton & Co., Ltd., Brotherton House, Westgate, Leeds, 1	58	
BROTHWELL, J. F., B.A.(Econ.), 11, Gledhow Park Drive, Leeds, 7	123	155
BROWN, Professor A. J., M.A., D.Phil., 24, Moor Drive, Leeds, 6		
74, 80, 81, 89, 107, 123, 131, 133, 140, 214, 217	155	
BROWN, Miss C., 93, St. Enoch's Road, Wibsey, Bradford, 6	210	
BROWN, D. G., M.B., Ch.B., M.R.C.P.E., D.P.M., Flat 3, Cadogan Court, 47, Cardigan Road, Leeds, 6	128	190
BROWN, D. J. LATHAM, B.A., LL.B., 19, Cardigan Road, Leeds, 6	123	158
BROWN, E. J., O.B.E., B.Com., 24, Hollin Lane, Leeds, 16	119	
BROWN, J. C., M.A., Mus.B., F.R.C.O., 62, Ridge Terrace, Leeds, 6	121	151
BROWN, Miss MARY D., A.T.D., M.M.A.A., Flat 2, 5, Cavendish Road, Leeds, 2		191
BROWN, Professor R. F., M.A., Ph.D., Rivington House, Clarence Road, Horsforth, Leeds	107, 121, 131, 213	149
BROWN, T., 7, Leith Street, Leeds, 9	103	
BROWN, W. A., Ripon County Secondary School, Ripon	142	
BROWNE, Emeritus Professor L. E., M.A., D.D., Lucaslands, Highbrook, Ardingly, Sussex	111	
BROWNLEE, Miss A. F., University of Edinburgh Staff Club, Chambers Street, Edinburgh, 1	119	
BROWNRIGG, 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	83	
BRUMPTON, J., T.D., 70A, Victoria Road, Leeds, 6		211
BRUST, Miss JEAN, B.Sc., Ph.D., 41, Heathfield, Leeds, 16	124, 134	165
BRYANT, G., 51, St. Michael's Road, Leeds, 6		150
BRYCE, Lt.-Col. D. P., O.B.E., D.L., J.P., West Riding Territorial and Auxiliary Forces Association, 20, St. George's Place, York	91	
BUCHAN, C. W., F.I.M.L.T., Department of Pathology, The University, Leeds, 2		184
BUCHANAN, Mrs. J. R. G., M.B., Ch.B., 21, Harrowby Road, Leeds, 16		189
BUCHANAN, M. F. G., M.B., Ch.B., F.R.C.P.E., D.C.H., 21, Harrowby Road, Leeds, 16	128	189
BULLUS, Wing Commander ERIC E., M.P., Maxted House, Harrow-on-the-Hill, Middlesex	72	
BULMER, Miss F., 38, Grange Park Road, Leeds, 8		205
BUNN, D., B.Sc., Ph.D., 19, Carlton Road, Harrogate	56, 124, 135	159
		163
BURBURY, Miss W. M., M.A., M.B., B.S., D.P.M., M.R.C.S., L.R.C.P., Holly Cottage, Draughton, Near Skipton	119	
BURCH, Mrs. JANE E., B.A., Ph.D., Hartswood Lodge, 48, Henconner Lane, Leeds, 7		182
BURCH, P. R. J., M.A., Ph.D., Hartswood Lodge, 48, Henconner Lane, Leeds, 7		195
BURDIN, Miss C. L., 8, Bar Lane, Wakefield		188
BURDIN, Miss V. K., 8, Bar Lane, Wakefield		169
BURNETT, C., 91, Rookwood Road, Leeds, 9	77	
BURNINGHAM, The Rev. G. W., B.A., M.A., 74, Clarendon Road, Leeds, 2	106, 236	151
BURNS, D. G., M.A., Ph.D., 82, Cornwall Road, Harrogate	121, 132, 217	199
BURNS, J., G.M., B.Sc., Ph.D., M.Inst.Gas E., North Thames Gas Board, Monk Street, London, S.W.1	75	
BURNS, Miss M., B.Sc., Flat 7, Boyle Hall, West Ardsley, Wakefield		176
BURR, S., M.Sc., 23, Ethelbert Road, Canterbury, Kent	119	
BURROW, R., A.I.M.L.T., 177, Cross Flatts Grove, Leeds, 11		185
BURTON, Emeritus Professor DONALD, M.B.E., D.Sc., F.R.I.C., Ousel Nest, Blacklands Close, Saffron Waldon, Essex	111, 218, 219	
BURTON, STANLEY H., M.A., Messrs. Montague Burton, Ltd., Hudson Road, Leeds, 9	62, 67	
BURTONSHAW, Miss G., Flat J., Potternewton House, Potternewton Lane, Leeds, 7		180
BURWELL, R. G., B.Sc., M.D., F.R.C.S., 3, Newton Villas, Leeds, 7	128	181
BUSE, The Rev. S. I., University College of North Wales, Bangor	221	

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		Staff List
BUTCHER, E. T., M.A., Colne Valley High School, Linthwaite, Nr. Huddersfield	142	
BUTCHER, K. L., B.Sc., M.I.Chem.E., F.R.I.C., 11, Fernbank Drive, Baildon, Yorks.	60, 126, 133, 214	173
BUTLER, H. S., 45, Tinshill Road, Leeds,	16	165
BUTLER, J. B., M.Sc., M.Com., 70, Cliff Road, Leeds,	6	126 179
BUTLER, Mrs. M. MARJORIE, 44, Broomfield Crescent, Leeds,	6	209
BUTLER, R. F., Rossett Grange, Harrogate		57
BUTTERFIELD, Mrs. J., 44, Weetwood Lane, Leeds,	16	210
BUTTERFIELD, County Alderman R. S., O.B.E., M.C., Highfield, Haxby, York		
	59, 65, 70, 87, 93, 138	
BUTTERWICK, W., 14, Cross Flatts Terrace, Leeds,	11	177
BUTTERWORTH, E. D., M.A., 3, Cobble Carr, Guisborough, N. Yorks.	121, 138	201
BUTTERWORTH, Miss NORA, 25, St. Michael's Crescent, Leeds,	6	157
BUXTON, J. B., B.Sc., Bodington Hall, Leeds,	16	160 207
BYWATER, Professor T. L., B.Sc., M.S., 1, Balmoral Terrace, Leeds,	6	
	107, 126, 133, 213, 216, 217, 219, 220	178
CALDIN, E. F., M.A., D.Phil., 5, Claremont Drive, Leeds,	6	124, 133 163
CALDWELL, Miss M. C., B.A., 108, Becketts Park Drive, Leeds,	6	120
CALDWELL, T. B., M.A., 11, St. Oswalds Road, York	121, 138, 214, 220	201
CAMERON, Miss A. M., Pulverbatch, Homestead, Menston, Ilkley		181
CAMERON, E., B.A., Lyndon Hall, Virginia Road, Leeds,	2	121, 153 207
CAMERON, Professor J. M., M.A., 8, North Parade, Leeds,	16	
	74, 85, 107, 121, 131, 133, 139, 140, 213, 214, 217	150
CAMM, E. H., 28, Woodsley Grove, Leeds,	3	175
CAMPBELL, W., The Training College, Bingley		
CARDWELL, D. S. L., B.Sc., Ph.D., 11, The Crescent, Leeds,	17	121 150
CAREY, Miss M. BRENDA, LL.B., J.P., Weetwood Hall, Leeds,	16	206
CARMIEL, Y., M.A., Department of Semitics, The University, Leeds,	2	146
CARR, Miss H., Bursar's Office, The University, Leeds,	2	210
CARRUTHERS, T. G., B.Sc., A.R.I.C., F.I.Ceram., 16, Carr Manor View, Leeds,	17	
	126, 135	173
CARSON, A. S., M.Sc., Ph.D., 1, Fearnville Avenue, Leeds,	8	124, 135 163
CARTER, B., 496, Throstle Road, Leeds,	10	175
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		196
CARTER, Professor G. W., M.A., M.I.E.E., Mem.A.I.E.E., 38, King's Mount, Leeds,	17	
	85, 87, 107, 126, 133, 213, 220	170
CARTER, County Alderman N., 24, Trenance Drive, Shipley		95
CASEY, H., A.I.S.T., 127, Lidgett Lane, Leeds,	8	170
CASPERSON, Mrs. D. L., 20, Moor Road, Leeds,	6	165
CASS, F. H., B.Sc., 12, Woodland Park Road, Leeds,	6	126 173
CASSIE, A. B. D., C.B.E., M.A., Ph.D., D.Sc., F.Inst.P., Peak Hill, Staircase Lane, Bramhope, Leeds		100 177
CATCHPOLE, J. R., B.Sc., 101, St. Mark's Road, Leeds,	2	174
CATON, E. E., M.Sc., A.M.I.Mech.E., 64, Water Lane, Leeds,	12	120
CATTERALL, R. D., M.R.C.S., L.R.C.P., M.R.C.P.(E.), 91, Old Park Road, Leeds,	8	
	128, 136	189
CAUNT, Mrs. C. B., 82, Harold Terrace, Leeds,	6	210
CHADWICK, A., B.Sc., Ph.D., Department of Zoology, The University, Leeds,	2	
	124	165
CHALLENGER, Emeritus Professor F., B.Sc., Ph.D., D.Sc., F.R.I.C., The Woodlands, Arthington Lane, Poole-in-Wharfedale		111
CHAMBERLAIN, N. H., B.Sc., Ph.D., F.T.L., 41, Becketts Park Crescent, Leeds,	6	
	126, 133, 220	175

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NAMES AND ADDRESSES

			Staff List
CHAMBERS, Alderman Mrs. KATHLEEN, C.B.E., LL.D., J.P., The Croft, 34, Plumpton End, Wrose Road, Bradford, 2	57, 87		
CHAMBERS, Miss R. E., S.R.N., H.V.Cert., H.V.T.Cert., 15, Sutherland Avenue, Leeds, 8			195
CHANCELLOR, THE, Harewood House, Leeds	56, 57, 64, 65, 143		
CHAPMAN, The Rev. C. T., Abinger Rectory, Dorking, Surrey	221		
CHAPMAN, G. P., O.B.E., M.C., M.A., B.Sc., Savile Club, 69, Brook Street, London, W.1	119		
CHAPMAN, W. C., M.A., St. John's College, York	87		
CHARLESTON, G. F., 2, Wood Lane, Bowers Row, Woodlesford			161
CHATTAWAY, F. W., M.Sc., Ph.D., 27, Primley Park Lane, Leeds, 17	96, 110, 128, 133, 136		182
CHEETHAM, H. S., M.I.Mech.E., M.I.Chem.E., F.Inst.F., 17, Grosvenor Crescent, London, S.W.1			75
CHESTERS, Miss M. S., B.Sc., M.Sc., Lupton Hall, Wood Lane, Leeds, 6	194		206
CHEW, C., M.Sc., F.R.I.C., Technical College, Leeds, 1	140		
CHILDS, J. J., B.Sc., M.Sc., 26, St. James Drive, Harrogate			186
CHORLTON, Miss B. A., B.Sc., 12, Grove Lane, Leeds, 6	192		
CHRONOWICZ, A. W., Dipl.-Ing., 873, Scott Hall Road, Leeds, 17	126, 134		169
CLAPTON, Professor G. T., M.A., Ridgefield, North Hill Road, Leeds, 6	56, 62, 66, 70, 72, 80, 81, 87, 97, 101, 104, 107, 121, 131, 138, 139, 140, 141, 142, 213		145
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CLARK, C. H. D., D.Sc., A.R.C.S., A.R.I.C., D.I.C., 'Peacehaven,' 49, Green Lane, Leeds, 16			147
CLARK, E. R., B.Pharm., Ph.D., F.R.I.C., 53, The Turnways, Leeds, 6	128, 135, 215		183
CLARK, Miss H. J., Flat A, 127B, Brudenell Road, Leeds, 6			200
CLARK, J. M. P., M.B.E., M.B., Ch.B., F.R.C.S., 29, Park Square, Leeds, 1	128, 136		192
CLARKE, G. B., B.Sc.(Econ.), Dip.Agric.Sc., 36, Bracken Edge, Leeds, 8	126		179
CLARKE, W. J., 7, Heathfield, Leeds, 16			209
CLAYSON, D. B., B.A., Ph.D., 86, Ash Road, Leeds, 6	128, 136		186
CLEGG, A. B., M.A., County Hall, Wakefield	59, 139, 140, 141		
CLEGG, Miss P. J., The Pastures, Tong, Bradford			210
CLEMONSON, R. M., Nunroyd House, Yeadon, Leeds			208
CLEWORTH, R., M.A., LL.B., Q.C., Town Hall, Leeds, 1	89		
CLIFFORD, T. N., B.Sc., Ph.D., F.G.S., 51, Rossall Road, Harehills, Leeds, 8			167
CLIFFORD, W. E., B.S., M.S., School of Chemistry, The University, Leeds, 2			163
CLOTHWORKERS' COMPANY, MASTER OF (Field Marshal The Rt. Hon. Viscount Slim, K.G., G.B.E., K.C.B., D.S.O., LL.D.), Clothworkers' Hall, Dunster Court, Mincing Lane, London, E.C.3.	59		
COBB, Miss A. E., B.A., 7, Ashwood Villas, Leeds, 6			177
COBB, Miss PAMELA M. S., M.A., Second Floor Flat, 5, Woodsley Terrace, Clarendon Road, Leeds, 2	220		202
COBB, R. C., M.A., Department of History, The University, Leeds, 2	121		149
CODD, I., B.Sc., Ph.D., A.I.M., Manby, Green Hill Mount, Leeds, 13	126		174
COE, R. N. C., M.A., Ph.D., 3, Lyddon Terrace, Leeds, 2	121, 132, 217		147
COE, Mrs. V. S., B.A., 3, Lyddon Terrace, Leeds, 2	121		148
COHEN, Professor J., University of Manchester	221, 222		
COLHOUN, Professor J., University of Manchester	222		
COLECLOUGH, F. T., A.T.D., F.R.S.A., Bradford Regional College of Art, Great Horton Road, Bradford	87		
COLERIDGE, J. C. G., B.Sc., M.B., Ch.B., 15, Allerton Park, Leeds, 7	128, 136		181
COLLIER, H. J., 9, Gotts Park Crescent, Leeds, 12			150
COLLINGE, C. N., M.A., A.M.I.Chem.E., 5, Alberta Avenue, Leeds, 7	126, 134		173
COLLINS, Mrs. C. DOREEN E., B.Sc.(Econ.), 14, Woodland Park Road, Leeds, 6			
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COLLINS, Mrs. J., M.A., Weetwood Hall, Leeds, 16			206

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COLLINSON, E., M.A., Ph.D., 11, Springwood Road, Leeds, 8	124, 133		163
COMMAND EDUCATION OFFICER, NORTHERN COMMAND, York	80, 139		
CONWAY, A. M., LL.B., 82, The Fairway, Alwoodley, Leeds, 17			158
COOK, G. B., M.A., Ph.D., Lyddon Hall, Virginia Road, Leeds, 2	121, 133		160
COOK, The Rev. J. H., M.A., Wesley College, Leeds, 6	121		152
COOK, J. B., M.D., M.R.C.P., Ledicot, 49, Hilltop, Newmillerdam, Wakefield			190
COOMBER, J. E., M.A., LL.B., Clothworkers' Company, Clothworkers' Hall, Dunster Court, Mincing Lane, London, E.C.3		59	
COOPER, The Rev. A. S., B.A., M.A., 3, The Ring Road, West Park, Leeds, 16	236		
COOPER, G. J., B.Sc., Devonshire Hall, Cumberland Road, Leeds, 6			160
COPLAND, J., M.Ch.D., L.D.S., 12, St. Chad's Drive, Leeds, 6			198
CORDER, S. PIR, M.A., Ingledew Cottage, Cross Ingledew Crescent, Leeds, 8			146
CORK, D. J., L.D.S., 10, Park Square, Leeds, 1	128, 136		197
CORK, Mrs. I. E., M.A., Department of Social Studies, The University, Leeds, 2		123	156
CORNISH, F. H. J., M.A., D.Phil., 26, Brudenell View, Leeds, 6	121, 134		159
CORNWELL, J. F., B.Sc., A.R.C.S., 51, Stainburn Drive, Leeds, 17	124		160
COSTON, Mrs. J., 4, Kirkwood Drive, Leeds, 16			204
COULSON, Miss G., 9, North Hill House, North Hill Road, Leeds, 6			149
COULTAS, Miss M. E., 21, Hartley Grove, Leeds, 6			204
COUSINS, Councillor J., 1, Kelmere Drive, Bradford, 8	62, 65		
COVERDALE, Miss E. M., Devonshire Hall, Cumberland Road, Leeds, 6			207
COWLING, D. G., M.B.E., J.P., 17, Shire Oak Road, Leeds, 16	62, 67		
COWLING, Miss M. A., 19, Hollin Gardens, Leeds, 16	162		165
COWLING, Professor T. G., M.A., D.Phil., F.R.S., 19, Hollin Gardens, Leeds, 16	78, 83, 107, 124, 131, 133, 217, 220		159
COX, BERNARD K., Messrs. Jonathan Knowles & Cox, Lloyds Bank Chambers, Bradford		89	
COX, J. W., B.A., 9, West Mount Street, Banks Avenue, Pontefract	121, 132, 216		149
COX, K. G., M.A., Ph.D., F.G.S., 7, Clarendon Place, Leeds, 2			167
CRABTREE, C. H., Messrs. R. W. Crabtree & Co. Ltd., Water Lane, Leeds, 11	79		
CRACKNELL, Miss VERA, Adastral, 61, Easterly Road, Leeds, 8			147
CRAGGS, Professor J. W., B.Sc., Ph.D., 12, Otley Old Road, Leeds, 16	107, 124, 131		159
CRAIG, Professor W. S. M., B.Sc., M.D., F.R.C.P.E., F.R.C.P., F.R.S.E., Mellendean, 22, Helmsley Drive, Leeds, 16	86, 87, 95, 107, 128, 136, 215		189
CRANE, Miss C. B., M.B., B.S., D.P.H., Health Department, 9, St. Leonard's Place, York		73	
CRANFIELD, N. G., Woodsley House, Bodington Hall, Leeds, 16			208
CRAPPER, G. D., B.Sc., Ph.D., 37, Linton Crescent, Leeds, 17	124		160
CROSBY, T. S., B.Sc.(Hort.), Flat A, 10, Cumberland Road, Leeds, 6			166
CROSS, C. D., A.R.C.A., A.T.D., College of Art, Leeds, 1	87, 141		
CROSS, E. J., B.Sc., Ph.D., F.R.I.C., 11, Harlow Crescent, Harrogate	119		
CROSSLAND, Miss G., 118, The Ring Road, Leeds, 15			210
CROTTY, P., LL.B., 5, Grovehall Parade, Leeds, 11	60, 61		158
CROWSON, Miss S. T., 434, Spen Lane, Leeds, 16			210
CROWTHER, E., C.B.E., M.Eng., M.I.C.E., M.Inst.Gas E., 30, Grainger Street, Newcastle-upon-Tyne		75	

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NAMES AND ADDRESSES

	Staff List
CRUICKSHANK, D. W. J., M.A., B.Sc.(Eng.), Ph.D., 12, West Parade, Leeds, 16	
	78, 124, 133 162
CRUICKSHANK, Mrs. MARJORIE A., B.A., M.A., Ph.D., 12, West Parade, Leeds, 16	
	121 152
CRUICKSHANK, Professor R., University of Edinburgh	222
CSANYI, L. R., Dr. Phil. Nat., School of Chemistry, The University, Leeds, 2	163
CULL, W. E., 20, Ashton Grove, Leeds, 8	161
CULLEN, W. A., B.Com., 4, Weetwood Road, Leeds, 16	209
CUMBERBATCH, E., B.Sc., Ph.D., 24, Kepstorn Road, Leeds, 16	124 159
CUMMING, A. L., 24, The Rowans, Bramhope, Leeds	211
CURRAN, Professor R. C., St. Thomas's Hospital Medical School, London, S.E.1	222
CURRIE, D. W., M.D., Ch.M., F.R.C.S., F.R.C.O.G., 30, Park Square, Leeds, 1	
	128, 136 193
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	124, 133 161
CURTIS, S. J., T.D., M.A., Ph.D., 31, Hayes Close, Wimbourne, Dorset	91, 119
CZEKALOWSKI, J. W., M.D., D.T.M.&H., M.Sc., 9, Sefton Avenue, Leeds, 11	128 185
CZERKAWSKI, J. W., B.Sc., Ph.D., Department of Medicine, The University, Leeds, 2	188
DAGLEY, S., M. A., B.Sc., D.Sc., F.R.I.C., 87, Talbot Road, Leeds, 8	128, 133, 136 182
DAINTON, A. H., M.A., 57, Cliff Road, Leeds, 6	119
DAINTON, Professor F. S., M.A., Sc.D., F.R.I.C., F.R.S., 16, North Parade, Leeds, 16	
	66, 73, 81, 83, 85, 97, 98, 102, 104, 106, 107, 124, 133, 136, 140 163
DALBY, G. R., M.A., Flat 4, First Floor, 31, Cromer Terrace, Leeds, 2	121, 138 201
DALLEY, J., B.Sc., Headley Hall Farm, Tadcaster	126 178
DALLEY, R. A., F.R.I.C., Leeds City Analyst, Market Building, Leeds, 1	195
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DALTON, D. C., B.Sc.(Agric.), Ph.D., 207, Green Lane, Leeds, 16	126 178
DALWOOD, Mrs. M. L., B.A., 52, Cottage Road, Leeds, 6	148
DANBY, J. P., B.Sc., Ph.D., National Leatherseller's College, Tower Bridge Road, Bermondsey, London, S.E.1	90
DAUBNEY, F. R., School of Chemistry, The University, Leeds, 2	165
DAVENPORT, W. A., M.A., 80, Victoria Road, Leeds, 6	121 147
DAVEY, P. M., 99a, Roundhay Road, Leeds, 8	172
DAVIDSON, Professor J. N., University of Glasgow	222
DAVIDSON, P. R., L.D.S., H.D.D., R.F.P.S., 5, Firs Avenue, Harrogate	128 197
DAVIDSON, R. S., A.R.I.C., 3, Montagu View, Leeds, 8	165
DAVIES, C. L., F.C.A., c/o Whitfield & Co., Martins Bank Chambers, Park Row, Leeds, 1	73
DAVIES, D., M.B., Ch.B., B.D.S., School of Dentistry, Leeds, 2	198
DAVIES, D. I., B.Sc., Ph.D., 17, Linton Crescent, Leeds, 17	124 165
DAVIES, G. A., M.A., D.Phil., 21, Moor Drive, Otley	121 149
DAVIES, Professor H., Regents Park College, Oxford	221
DAVIES, M. R. R., LL.M., Ph.D., D.P.A., Brow View, 81, Green Head Lane, Utley, Keighley	123, 132, 140, 215 158
DAVIES, W. P., Rockall, 32, Parkland, Bramhope, Leeds	180
DAVIS, Miss C., 117, Potternewton Lane, Leeds, 7	210
DAVIS, H. J., M.A., The Grammar School, Whitby	62
DAVIS, L. H., 15, Fir Tree Green, Leeds, 17	103 182
DAVIS, W., 79, Headingley Avenue, Leeds, 6	170
DAVISON, Professor J. A., T.D., M.A., 76, St. Michael's Road, Leeds, 6	
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DAWES, Mrs. J. M., 16, Moseley Wood Avenue, Leeds, 16	210
DAWS, P. P., B.A., Ph.D., 120, Street Lane, Roundhay, Leeds, 8	121, 132 168
DAWSON, E., B.Sc., N.D.A., N.D.D., 14, Whinfield, Leeds, 16	180
DAWSON, Mrs. E., 105, Armley Ridge Road, Leeds, 12	209
DAWSON, J. B., B.Sc., Ph.D., 26, Harecroft Road, Otley	194
DAWSON, Mrs. J. H., 1A, The Green, Idle, Bradford	196
DAWSON, Alderman J. L., M.A., J.P., Fixby House, Huddersfield	60, 65, 87
DAWSON, Miss K. M., 2, Glenholme Road, Baildon, Shipley	153
DAWSON, R., 267, Spen Lane, Leeds, 16	209
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	100
DEEN, Miss B., 357, Dewsbury Road, Wakefield	204
DEERING, Miss O. E., 24, Hyde Terrace, Leeds, 2	193
DE IRIZAR, A., M.A., 25, Ash Grove, Leeds, 6	120
DELARGY, Professor J. H., D.Litt., Litt.D., M.A., University College, Dublin	82
DELL, C. C., B.Sc.(Eng.), A.R.S.M., A.M.I.M.M., Cranham, 7, Elmete Grove, Leeds, 8	126, 135 171
DENHAM, N. H., B.Com., Lillands, Stockhill Street, Dewsbury	139
DENHAM, W. S., B.Sc., D.Sc., F.R.I.C., 3, North Parade, Leeds, 16	177
DENSON, Miss J. M., St. Elmo, Barton Lane, Yeadon, Leeds	166
DENNISON, Miss P., 5, West End Grove, Horsforth, Leeds	204
DENNY, Miss J. G., Sadler Hall, Church Lane, Adel, Leeds, 16	207
DENNY, Professor J. R., M.B.E., M.A., Mus.B., 283, Otley Road, Leeds 16	87, 107, 121, 131, 213 151
DENT, F. J., O.B.E., Ph.D., D.Sc., M.Inst.Gas E., Midlands Research Station, Wharf Lane, Solihull, Birmingham	173
DENT, H. C., B.A., F.R.S.A., Institute of Education, The University, Leeds, 2	199
DENTON, Miss G. A., 2, Thornfield Road, Leeds, 16	204
DE PAULA, F. C., T.D., F.C.A., F.C.W.A., Messrs. Robson Morrow, 59, Cavendish Street, London, W.1	78
DEREWONKO, Miss J. A., 26, Tinshill Mount, Leeds, 16	180
DE RUSETT, A. W., M.A., 25, Park Drive, Harrogate	121, 138 201
DE VILLIERS, J. I., M.A., LL.B., 4, Cloberry Street, Leeds, 2	141
DICK, O. H. J., B.A., Laurel House, High Street, Boston Spa, Yorks.	219 205
DICKINSON, F. D., 124, Oak Road, Morley, Leeds	177
DICKINSON, G. C., M.A., Department of Geography, The University, Leeds, 2	121, 132 150
DICKINSON, Miss J., 239, Armley Ridge Road, Leeds, 12	176
DICKINSON, Miss P., 15, Swinnow Crescent, Stanningley, Pudsey	157
DICKINSON, Professor R. E., M.A., Ph.D., 4, Dunstarn Gardens, Leeds, 16	83, 107, 121, 131, 133, 217 150
DIETERICH, Fräulein R., Tetley Hall, Moor Road, Leeds, 6	148
DIGBY, Mrs. W. M., 93, Moseley Wood Drive, Leeds, 16	209
DINEEN, T., 2, Rosemont Road, Leeds, 13	198
DIVINE, Miss C., 8, Fearnville Mount, Leeds, 8	158
DIVINE, T. A., M.B., Ch.B., 8, Fearnville Mount, Leeds, 8	181
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DIXEY, F., C.M.G., O.B.E., D.Sc., M.I.M.M., F.R.S., Windyridge, Maudlin Close, Steyning, Sussex	83
DIXON, Miss S., 21, Talbot Rise, Leeds, 17	148
DIXON-LEWIS, G., M.A., D.Phil., 230, West Park Drive (West), Leeds, 8	174
DOBRÉE, Emeritus Professor B., O.B.E., M.A., Doc. de Dijon, 15, Pond Road, Blackheath, London, S.E.3	111
DOBSON, E. J., Jesus College, Oxford	221
DOBSON, Miss S., 67, Gledhow Lane, Leeds, 5	169

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DODD, E. E., 280, Kew Road, Kew, Surrey	139, 140
DODD, J. H., Carnegie College of Physical Education, Beckett Park, Leeds,	6
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DODD, Professor J. M., B.Sc., Ph.D., F.R.S.E., Woodbank, Grove Road, Leeds,	6
	73, 103, 106, 107, 124, 133, 136
DOLBEY, Mrs. D. R. D., Divisional Staff Officer, I.C.I. Ltd., Fibre Division, Hook- stone Road, Harrogate	69
DORKIN, Miss CATHERINE M. C., M.Sc., Ph.D., 17, Temple Road, Bishopthorpe, York	176
DOUGILL, Miss M. W., B.Sc., Ph.D., 5, Frazer Avenue, Horsforth, Leeds	162
DOUGLAS, J., M.D., D.P.H., Town Hall, Bradford	93
DOUTHWAITE, R. M., B.Sc., A.I.M., 2, Parkside Crescent, Leeds,	6
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DOWER, A., Messrs. G. Depledge & Co., Ltd., Chadwick Street, Leeds,	10
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DOWSON, D., B.Sc., Ph.D., A.M.I.Mech.E., A.S.M.E., 43a, Farrar Lane, Leeds,	16
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DOYLE, Miss M., B.A., 38, Grayswood Crescent, Holme Wood, Bradford,	4
DOYLE-DAVIDSON, W. A. G., B.A., Newlaithes Manor House, Horsforth, Leeds	170
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	71, 121, 131
DRESSLER, A., B.A., 9, Chelwood Avenue, Leeds,	8
	121, 132
DRINNON, R., B.A., M.A., Ph.D., Greycourt, Gledhow Lane, Leeds,	8
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DROLLER, H., M.D., M.R.C.P.E., Department of Medicine, The University, Leeds,	2
	187
DRURY, T., M.Sc., 18, Conference Place, Leeds,	12
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DRY, F. W., D.Sc., 9, Canterbury Drive, Leeds,	6
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DRYHURST, J., B.A., 27, Moor Road, Leeds,	6
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DUDELL, Miss E. M., B.Sc., 9, Moorland Road, Leeds,	6
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DUFFY, A. E. P., B.Sc.(Econ.), Ph.D., 22, Bennethorpe, Doncaster	121, 138, 139
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DUGGAN, F. H., 34, Lavinia Street, Leeds,	7
	176
DUGGLEBY, J. C., B.Sc., The Oaklands, Long Causeway, Leeds,	16
	195
DUNCAN, Professor J. P., University of Sheffield	222
DUNCAN, Mrs. M. H., 19, Moor Allerton Drive, Leeds,	17
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DUNHAM, P. G., B.Sc., 9, Hesse Mount, Leeds,	6
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DUNN, Miss M., Bretton Hall, Bretton, Wakefield	87, 141
DUNN, Miss M., 1, Heath Crescent, Leeds,	11
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DUNNINGTON-JEFFERSON, County Alderman Lt.-Col. Sir John, Bt., D.S.O., LL.D., D.L., Thicket Priory, Thorganby, York	60, 65
DURDEY, C. G., F.I.S.T., Flat 3, 146, Otley Road, Leeds,	16
	119
DURWARD, Professor A., M.D., F.R.S.E., 7, Grange Court, Leeds,	6
	72, 76, 85, 86, 91, 95, 103, 107, 128, 133, 136
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DUTHIE, H. L., Ch.M., F.R.C.S., Department of Surgery, The University, Leeds,	2
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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	139
EALES, Mrs. B., Barnside, Breary Lane East, Bramhope, Leeds	205
EARL, D. C., M.A., Ph.D., 26, Parklands, Bramhope, Leeds	121
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EARNSHAW, W. E., 4, Winnipeg Place, Leeds,	7
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EASTWOOD, D. G. F., B.Sc., The University Union, Leeds,	2
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EATOUGH, T., Messrs. Eatough Ltd., Earl Shilton, Leicester	90
EAVES, G., B.Sc., Ph.D., 230, Washway Road, Sale, Cheshire	
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EDUCATION OFFICER, H.Q., Fighter Command R.A.F., Stanmore	139
EDWARDS, Mrs. B., Flat 2, 1, Burton Crescent, Leeds,	6
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EDWARDS, Miss C., Hawkshaw House, West Garforth, Leeds	
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EDWARDS, G. F., M.B.E., M.B., B.S., M.R.C.P., Hill Side, Kirby Overblow, Harrogate	128 189
EDWARDS, N., B.Sc., Department of Urological Surgery, The University, Leeds 2	192
EDWARDS, Professor V. C. W., University of Aberdeen	222
EDWARDS, Emeritus Professor W. M., M.C., M.A., 43, Cumnor Hill, Oxford	111
EGAN, Miss C. B., Flat 2, 6, Lyddon Terrace, Leeds, 2	210
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	84
ELLIOT, F., M.Ed., B.Sc., A.K.C., Huddersfield Training College, Huddersfield	87, 141
ELLIOTT, Alderman F., J.P., The Town Hall, Barnsley	60
ELLIOTT, G. A., M.Sc., Ph.D., 44, Long Meadow, Bramhope, near Leeds	163
ELLIOTT, J. H., M.Sc., 15, Wesley Street, Cleckheaton	173
ELLIOTT, Miss N. M., B.A., 185, Royal Park Terrace, Leeds, 6	202
ELLIS, Councillor F., 153, Spring Hall Lane, Halifax	62, 65, 140
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	128, 136 191
ELLIS, S., M.A., 11, Balbec Avenue, Leeds, 6	121 147
ELLIS, W., General Secretary, City of Leeds Y.M.C.A., 35, Albion Street, Leeds, 1	106
ELY, C., 152, Skipton Road, Harrogate	198
EMPRIN, R. J., L.ès L., Bodington Hall, Leeds, 16	147
ENGLISH, C. E., Yorkshire Council, British Empire Cancer Campaign, 5, Park Square, Leeds, 1	73
EULER, Miss KATHLEEN M., 2, Sunnyside, Baildon, Yorks.	176
EVANS, D. HYWEL, A.M., M.A., B.Sc., Devonshire Hall, Cumberland Road, Leeds, 6	98, 104, 106, 124 159
EVANS, Miss J. A., B.A., Girls' Grammar School, Keighley	142 207
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	56, 62, 65, 69, 70, 75, 77, 78, 80, 81, 85, 90, 92, 97, 99, 101, 103, 107, 126 133, 143, 213, 220 169
EVENNETT, P. J., B.Sc., 24, Moorland Road, Leeds, 6	166
EWLES, J., M.A., St. Richard's Way, Aldwick, Bognor Regis, Sussex	119
EXLEY, C. F., B.A., M.Ed., 17, Ayresome Avenue, Leeds, 8	62, 64, 66 143
EXLEY, K. A., M.D., D.Obst. R.C.O.G., 48, Westminster Crescent, Burn Bridge, Harrogate	128, 136 183
EYLES, Mrs. P. A., 17, Chandor Garth, Lidgett Lane, Leeds, 8	210
EYRE, S. R., B.Sc., Ph.D., 7, Edgbaston Close, Alwoodley Park, Leeds, 17	121 150
FARQUHAR, J. B., M.B., Ch.B., F.R.C.S., F.R.C.O.G., 31, Park Square, Leeds, 1	128 193
FARRAR, Miss M., 3, Moorland Road, Leeds, 6	175
FARRINGTON, G. H., M.B., Ch.B., Department of Anatomy, The University, Leeds, 2	128 181
FARROW, Mrs. E. M., A.F.T.Com., 23, Sandringham Drive, Leeds, 17	151
FATTORINI, J., M.B.E., The Pines, Parish Ghyll Drive, Ilkley	95
FELTHAM, P. A., M.Sc., Ph.D., D.Sc., F.Inst.P., 23, Stainburn Drive, Leeds, 17	126, 134 174
FENBY, E., North Riding Training College, Filey Road, Scarborough	197
FENTON, D. R., 2, Lincroft Crescent, Leeds, 13	160
FERGUSON, A. E., M.A., 15, The Avenue, Leeds, 8	143

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NAMES AND ADDRESSES

		Staff List
FERRAND, Miss C. H., M.A., A.L.A., 237, Otley Road, West Park, Leeds, 16		203
FERRAR, Miss A. M., B.Sc., 146, Otley Road, Leeds, 16		150
FERRIS, G. A. J., B.Sc., Meadowcroft, Otley Road, Bramhope, near Leeds	124	160
FEVERSHAM, The Rt. Hon. THE EARL OF, D.S.O., D.L., Nawton Tower, Nawton, Yorkshire	56, 57, 65, 81	
FINEGAN, County Alderman J., 35, Ambleside Road, Normanby, Middlesbrough	59, 61	
FINLAY, S. E., M.B., M.R.C.P., Laburnum Cottage, Wike, Leeds, 17	219	205
FIRTH, J. DIGBY, M.A., F.S.A., Wenduynne, 347, Otley Road, Leeds, 16		208
FIRTH, Miss M., 4, Linden Close, Chickenley, Dewsbury		210
FISHER, Professor C. A., University of Sheffield	221	
FISHER, Mrs. J., 9, Morris Lane, Leeds, 5		184
FITTON, Wing Commander A. KNOWLES, M.B.E., Knowles Lodge, Appletreewick, Skipton-in-Craven	91	
FITZGERALD, Professor P. J., M.A., Bedford House, 201, Oakwood Lane, Leeds, 8		
	85, 107, 123, 131	158
FITZPATRICK, County Councillor Mrs. LAURA I., Grove House, Batley	61	
FITZPATRICK, Alderman M., 2, York Place, York Street, Wakefield	60, 66, 87	
FLEISCHFRESSER, B. E., M.Sc., 3, Westfield, Hilltop Road, Armley, Leeds, 12		164
FLETCHER, Professor B. A., B.Sc., M.A., Ryther House, Ryther, York	80, 87, 94, 106, 107, 121, 131, 141, 142, 219	199
FLETCHER, G., 44, Princess Crescent, Dewsbury		175
FLETCHER, J. K., 4, Moorland Terrace, Leeds, 2	77	
FLINT, Miss F. OLGA, B.Sc., Ph.D., 12, Cromer Terrace, Leeds, 2	126, 134	177
FLINT, Miss H., 23, Landshaw Crescent, Leeds, 10		180
FLINTOFF, T. E. S., M.A., Dip. Ed., 88, North Park Avenue, Leeds, 8	121	145
FOGARTY, Professor M.P., University College of South Wales, Cardiff		221
FOGGITT, P., M.B., Ch.B., 5, Spring Wood Road, Rawdon, Leeds	128	181
FOLLETT, E. A. C., B.Sc., Ph.D., 77, Clark Street, Stirling		167
FONER, H.A., B.Sc., 28, North Grove Rise, Leeds, 8		173
FORBES, R., D.F.C., B.Com., A.A.C.C.A., 102, Becketts Park Drive, Leeds, 6		209
FORD, R. E., M.D., F.R.C.P., Ministry of Health, Chesham House, Regent Street, London, S.W.1	93	
FORFAR, J. O., Western General Hospital, Edinburgh	223	
FORSTER, G. C. F., B.A., 16, Rothbury Gardens, Leeds, 16	121, 132	149
FOSTER, Miss D. M., B.Sc., The Training College, Ripon	141	
FOSTER, J., M.A., M.D., F.R.C.S., 17, North Hill Road, Leeds, 6	128, 136	191
FOUNTAIN, J. R., M.D., M.R.C.P.E., Lydget, Shann Lane, Utley, near Keighley	128	187
FOWLER, F. J., B.A., Ph.D., Dunherne, St. Andrew's Avenue, Morley, Leeds	110, 121, 131, 133, 139, 143, 213, 214, 216	150
FOWLER, Miss J. E. H., B.A., A.L.A., Oxley Hall, Far Headingley, Leeds, 16		203
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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	111	
FOX, Miss E. M., B.A., 4, Beech Avenue, Horsforth, Leeds		209
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	126, 135	169
FRASER, J. A., M.B., Ch.B., F.R.C.S., County Hall, Northallerton	93, 95	
FREEMAN, Mrs. G. M., 22, Tredgold Avenue, Bramhope, Leeds		185
FREI, Miss E., Dr.Sc.Nat., 99, Royal Park Avenue, Leeds, 6	124, 134	166
FRENCH, Mrs. J. A., 4, Leeds Road, Harrogate		204
FRIEND, J. F., M.A., B.Sc., Bretton Hall, Bretton, Wakefield	87, 141	214
FRYER, G. M., B.Sc., 35, Woodlands Lane, Leeds, 7		173
FURBER, M. J., B.Sc.(Agric.), Dip.Agric., Headley Hall Farm, Tadcaster		179

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		<i>Staff List</i>
GAGE, Miss M. D., B.Sc., Ripon Training College, Ripon	87	141
GALBRAITH, Miss L., M.I.M.A., Croft Hall, Hyde Terrace, Leeds, 2		208
GALLIVAN, J. M., 506, York Road, Leeds, 9		175
GARLAND, H. G., T.D., M.D., F.R.C.P., 43, Park Square, Leeds, 1	128, 136	188
GARNETT, FRANCIS W., B.E.M., Messrs. G. Garnett & Sons, Ltd., Apperley Bridge, Bradford	100	
GARRAD, K., M.A., Ph.D., 36, St. Martin's Avenue, Leeds, 7	121	149
GARRICK, F. J., M.A., Ravenswood, 17, Hookstone Chase, Harrogate	124, 133	162
GARSDIE, J. E., B.Sc., Ph.D., M.Inst.F., 7, Haigh Wood Crescent, Leeds, 16		
	56, 126, 133, 215, 216	172
GASKIN, A. R. J., M.A., B.Sc., F.G.S., A.M.I.M.M., 250, Stainbeck Lane, Leeds, 7		
	124, 135	167
GASS, I. G., M.Sc., Ph.D., F.G.S., Department of Geology, The University, Leeds, 2		
	124	167
GATES, Miss A., 22, Parkstone Avenue, Leeds, 16		202
GAUNT, Miss P. A., 16, Kingswood Crescent, Leeds, 8		198
GAUNT, P. B., 2, St. James Walk, Horsforth, Leeds		196
GAVIN, Professor M. R., University of North Wales, Bangor	222	
GAWLER, R., M.Sc., F.R.I.C., 11, Cliff Lane, Leeds, 6	80, 139, 143	
GEE, D. J., M.B., B.S., 40, Moseley Wood Green, Leeds, 16	128	196
GEORGE, The Rev. Principal A. RAYMOND, B.A., M.A., B.D., Lathbury House, Wesley College, Leeds, 6	121, 132	151
GEORGE, E. L., 112, The Oval, Leeds, 14		198
GIBSON, Mrs. J. V., 16, Vernon Road, Leeds, 1		204
GIBSON, N. H. E., B.Sc., Ph.D., 77, Shipley Fields Road, Shipley, Bradford	126, 134	180
GILHAM, C. W., B.Sc., M.A., 24, St. Chad's Avenue, Leeds, 6		119
GILLIES, Professor A., M.A., Dr.Phil., Gates House, Ripley Road, Knaresborough		
	107, 121, 131, 213	148
GILLIES, J. C., M.B., Ch.B., F.R.C.S.E., 5, The Crescent, Selby	120	
GILPIN, A., F.R.P.S., 1, Claremont Villas, Clarendon Road, Leeds, 2		211
GILYARD, Miss E. J., 4, Derwentwater Grove, Leeds, 6	190	194
GILYARD, Mrs. H. M., 4, Derwentwater Grove, Leeds, 6		210
GLASS, Professor D. V., London School of Economics and Political Science, University of London		221
GLAZEBROOK, Colonel A. R., M.C., T.D., B.A., Messrs. Dibb, Lupton & Co., 6, Butt's Court, Leeds, 1	62, 67, 89, 91	
GLEDHILL, Mrs. M. C., Flat 15, Scarfell Court, Matherdale Close, Dewsbury		210
GLEN, Miss E. M., Ilkley College of Housecraft, Wells Road, Ilkley	87, 141	
GLENTWORTH, P., B.Sc., Ph.D., The Coach House, Colton Road, Leeds, 15	124	163
GLOSSOP, F. G., M.Eng., North Western Division, National Coal Board, 40, Portland Street, Manchester, 1	92	
GLOVER, G. N., LL.B., 6, East Parade, Leeds, 1		158
GOAD, JOHN F.E., O.B.E., Merstham Lodge, Merstham, Surrey	59, 90	
GOLDIE, W., M.A., M.B., Ch.B., F.R.C.P., St. James's Hospital, Leeds, 9	128	183
GOLDMAN, L., B.Sc., Ph.D., A.R.I.C., Messrs. E. & J. Richardson, Ltd., Elswick Leather Works, Newcastle-upon-Tyne, 4	90	
GOLIGHER, Professor J. C., Ch.M., F.R.C.S., Orchard Hill, Linton, Wetherby		
	86, 107, 128, 136	191
GOODALL, County Alderman R. N., Willerby Lodge, Staxton, Scarborough		
	60, 93	
GOODBURN, Miss G. M., B.Sc., 22, Fitzroy Drive, Leeds, 8		185
GOODFELLOW, J., M.R.S.I., A.M.I.S.E., 43, Jackson Avenue, Leeds, 8		195
GOODHAND, Miss A. D., 58, Davies Avenue, Leeds, 8		209
GOODIER, J., B.Sc., Ph.D., Eton College, Windsor		199
GORE, Mrs. E., 25, Gotts Park Crescent, Leeds, 12		208
GOSDEN, P. H. J., M.A., Ph.D., Devonshire Hall, Cumberland Road, Leeds, 6		
	121	153

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NAMES AND ADDRESSES

		Staff List
GOTTSCALK, H. B., M.A., Ph.D., 6, Hollin Lane, Leeds, 16	121	145
GOUGH, B., The Regal Hotel, Oxford Street, Harrogate		193
GRACE, J. D., B.A., M.S., 24, Moorland Road, Leeds, 2		163
GRAHAM, G. N., B.Sc., Ph.D., 3, North Mead, Bramhope, Leeds		167
GRAHAM, The Rev. Father JONATHAN, C.R., M.A., College of the Resurrection, Mirfield	61	
GRANT, Professor W. D. B., M.A., D.Phil., F.R.S.L., Manna Ash, 228, High Street, Boston Spa	104, 107, 121, 131	146
GRAY, G., LL.B., 11a, Austhorpe Lane, Leeds, 15		143
GRAY, H., B.A., Education Offices, Ramsden Street, Huddersfield	87	
GRAY, P., M.A., Ph.D., 54, Moor Grange View, Leeds, 16	124, 133	163
GRAY, W., 4, Wolseley Place, Cambridge Road, Leeds, 7		161
GREAVES, Mrs. M. J., 8, Talbot Avenue, Leeds, 8		184
GREBENIK, Professor E., M.Sc.(Econ.), Little Grange, Breary Lane East, Bramhope, Leeds	64, 66, 105, 107, 123, 131, 137, 140, 219	156
GREEN, A. T., C.B.E., D.Sc., Newstead, St. Anthony's Drive, Westlands, Newcastle, Staffs.		173
GREEN, Professor H. N., M.A., M.Sc., M.D., Lumby Hall, South Milford, Yorks.	86, 108, 128, 136, 219	185
GREEN, The Rev. L. C., M.A., B.D., Ph.D., 3, Ashwood Terrace, Leeds, 6		236
GREENHALGH, T., Flat 1, Eccleston Court, Kirkstall Lane, Leeds, 6		212
GREGORY, J. C., B.Sc., F.R.I.C., The Mount Hotel, Clarendon Road, Leeds, 2		150
GREGORY, W. C., B.Sc., A.R.S.M., A.M.I.M.M., Rosemary Cottage, High Street, Boston Spa	124, 135	167
GREIG, D., B.Sc., Ph.D., 16, Parkstone Avenue, Leeds, 16	124	161
GRIFFIN, Miss M. P., 13, Belle View Avenue, Leeds, 8		160
GRIFFIN, T. F., 7, Ash Grove, Leeds, 6		176
GRIFFITH, J. R., M.A., B.Litt., F.H.A., 36, Wetherby Road, Leeds, 8	138	202
GRIFFITHS, W. K., B.Sc., Department of Physics, The University, Leeds, 2	124	161
GRIFFITHS, A. W., 354, Leeds Road, Howden Clough, Birstall		178
GRIMTHORPE, The Right Hon. The Lord, T.D., Easthorpe Hall, Malton, Yorks.	58	
GRINT, L. A., M.A., 17, Woodlands Drive, Harrogate		205
GRIST, W. R., M.B.E., B.Sc., 12, Ramshill Road, Scarborough	119	216
GROSBERG, Professor P., M.Sc.(Eng.), Ph.D., 35, Henconner Lane, Leeds, 7	108, 126, 133	175
GROSSMAN, J., B.A., 7, Clarendon Place, Leeds, 2	123	157
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		172
GROVES, W. E., A.C.A., Anglo-American Corporation of South Africa, Ltd., 40, Holborn Viaduct, London, E.C.1	83	
GUEST, Miss F. C., M.A., West Leeds High School for Girls, Leeds, 12	141	
GUILE, A., B.Sc.(Eng.), Ph.D., A.M.I.E.E., Department of Electrical Engineering, The University, Leeds, 2	126, 133	171
GUINDI, Miss N., B.A., Oxley Hall, Leeds, 16		206
GUNTAK, The Rev. H. J. S., B.A., B.D., Ph.D., F.P.Ps.S., 20, Montagu Drive, Leeds, 8	128	190
HABAKKUK, Professor H. J., All Souls College, Oxford		221
HAFNER, 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	
HAINSWORTH, Mrs. B., 137, Wakefield Road, Garforth, Leeds		184
HAINSWORTH, D., M.B., Ch.B., 43, Regent Park Terrace, Leeds, 6	128	196
HAINSWORTH, Mrs. E., 34, Hope Lane, Baildon, Yorks.		200
HAINSWORTH, G., M.A., Doc. de l'Université, 25, Cumberland Road, Leeds, 6	121, 131	147
HAITHWAITE, Miss A., M.I.M.A., Oxley Hall, Leeds, 16		206

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	Staff List
HALES, A. W., B.Sc., Department of Agriculture, The University, Leeds, 2	180
HALL, D. A., B.Sc., Ph.D., 11, Tinshill Road, Cookridge, Leeds, 16 128, 136	187
HALL, H. B., M.A., University of Liverpool	221
HALL, H. B., Keldholme, Linton, Wetherby	90
HALLAM, G. C., B.Sc., 38, Morris Lane, Leeds, 5	124
HAMILTON, M., M.D., B.S., L.R.C.P., M.R.C.S., D.P.M., Grove House, Hollyshaw Grove, Leeds, 15	190
HAMILTON, Miss MARIE A., B.A., 3, Balmoral Terrace, Claremont Road, Leeds, 6	203
HAMMOND, Alderman Mrs. LILLIAN, 125, Shadwell Lane, Leeds, 17 60, 87, 95	
HANNAH, Miss R., M.A., Margaret McMillan Training College, Trinity Road, Bradford, 5	141
HANSON, A. H., M.A., A.R.C.M., 11, The Crescent, Adel, Leeds, 16	
	123, 131, 219, 220
HAPPOLD, Councillor Mrs. A. M. M., M.A., 6a, Bainbrigg Road, Leeds, 6	156
	61, 87, 95
HAPPOLD, Professor F. C., Ph.D., D.Sc., 6a, Bainbrigg Road, Leeds, 6	
	62, 66, 81, 86, 90, 105, 108, 128, 133, 136
HARBERD, D. J., M.Sc., 6, Lyddon Terrace, Leeds, 2	182
	126
HARBERD, R. P., M.D., D.A., F.F.A.R.C.S., 1, Arncliffe Road, Leeds, 16	179
	128, 136
HARDAKER, County Councillor Mrs. L., Harrowing, 12, High Spring Gardens, Keighley	193
	61, 87
HARDING, D. H., M.A., 23, The Turnways, Leeds, 6	198
HARDING, R. T., G.I.Mech.E., 23, Kingsway, Whitkirk, Leeds, 15	153
HARDY, Miss A. M., 179B, Manygates Lane, Sandal, Wakefield	170
HARDY, County Alderman Sir HARRY, A.T.I., J.P., Rods Mills, Morley, Leeds 100	202
HARE, A. E. C., M.A., Ph.D., Southlea, Gateland Lane, Shadwell, Leeds, 17	
	123, 131
HARE, Miss E. C., 66, The Avenue, Alwoodley, Leeds, 17	155
HARE, Miss M. M. H., Weetwood Hall, Far Headingley, Leeds, 16	164
HARGRAVE, Alderman J. W. R., LL.B., 51, West Park Crescent, Leeds, 8	206
HARGRAVE, Mrs. N., Ellerslie Hall, Lyddon Terrace, Leeds, 2	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	207
	86, 87, 108, 128, 136
HARGREAVES, Brigadier KENNETH, C.B.E., T.D., D.L., Bowcliffe Hall, Bramham, Boston Spa, Yorks.	190
	59
HARGREAVES, P. W., 5, Billing Court, Rawdon	182
HARGREAVES, R., B.A., 509, Ring Road, Moortown, Leeds, 17	148
HARGREAVES, T., M.B., B.S., B.Sc., M.R.C.S., L.R.C.P., 313, Gillington Road, Bradford, 8	184
	128, 136
HARLAND, Miss F., 10, Ash Grove, Leeds, 6	202
HARLAND, H. B., A.I.M.L.T., A.I.S.T., F.R.M.S., 4, Carrholm View, Leeds, 7	198
HARPER, A., A.M.Inst.F., 17, Winding Way, Alwoodley, Leeds, 17	211
HARPER, R., M.Sc., Ph.D., F.B.Ps.S., 38, Hollin Lane, Far Headingley, Leeds, 16	
	124, 134
HARRIMAN, D. G. F., M.D., M.R.C.P., 9, Bentcliffe Lane, Leeds, 17	168
HARRIS, Miss A., B.A., Tetley Hall, Moor Road, Leeds, 6	183
HARRIS, C. C., B.Sc., Ph.D., 14, Miles Hill View, Leeds, 7	186
HARRIS, Miss J., 91, Tinshill Road, Leeds, 16	171
HARRIS, P. G., M.Sc., Ph.D., 27 Church Lane, Garforth, Leeds	153
	124, 134
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	167
	128
HARRIS, Miss S., 14, Ash Road, Leeds, 6	193
HARRISON, D., M.I.Min.E., N.E. Division, National Coal Board, Allerton Bywater, Leeds	196
	92
HARRISON, Miss GWENDOLEN, M.B., Ch.B., D.A., F.F.A.R.C.S., 8, Shire Oak Road, Leeds, 6	193
	128, 136

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NAMES AND ADDRESSES

	Staff List
HARRISON, P. M., 86a, Potternewton Lane, Leeds, 7	176
HART, P., A.I.M.L.T., 141, Ring Road, Farnley, Leeds, 12	198
HARTFALL, Professor S. J., T.D., B.Sc., M.D., F.R.C.P., 43, Park Square, Leeds, 1	187
	108, 128, 136, 219
HARTLEY, B. R., M.A., F.S.A., Flat 5, 24, Shire Oak Road, Leeds, 6	145
	121, 217, 219
HARTLEY, J., B.Sc., F.G.S., 21, Moor Drive, Leeds, 6	166
	124, 134
HARTLEY, L., M.I.Mech.E., M.Inst.Gas E., Messrs. Clayton, Son & Co., Ltd., Moor End Works, Leeds, 10	75
HARVEY, The Rev. H., M.A., 4, Caythorpe Road, Leeds, 16	236
HARVEY, Emeritus Professor J. W., M.A., 8a, Claremont Road, Leeds, 6	
	111, 214, 219
HARVEY, Mrs. P. M., Flat 3, 70, Street Lane, Leeds, 8	156
HASELDEN, Professor G. G., B.Sc., Ph.D., A.M.I.Chem.E., 12, High Ash Drive, Leeds, 17	173
	108, 126, 133
HAUGER, E. G., M.A., Motley, Holly Bush Green, Collingham, Wetherby	201
	121, 138, 140, 217
HAUSER, A., Dr.Phil., 3, Eton Avenue, London, N.W.3	119
HAWKSHAW, Mrs. B. A., 47, The Bottoms, Gildersome, Leeds	160
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	193
	128
HAY, G. A., M.Sc., Willow Bank, Leeds Road, Otley	194
	128
HAYES, D., B.Sc., 54, St. Michael's Road, Leeds, 6	173
HAYNES, R., 19, Lombard Street, Leeds, 15	176
HAYNES, S., B.Ch.D., F.D.S.R.C.S., D.Orth., Longridge, Mansfield Road, Burley-in-Wharfedale	128
HAYTER, C. G., H.M.I., Ministry of Education, Britannia House, Bridge Street, Bradford	142
HAYTER, C. J., B.Sc., M.B., B.S., M.R.C.P., 64, Lidgett Lane, Leeds, 8	187
	128, 136
HAYWARD, Miss A., Flat 11, 19, Cromer Terrace, Leeds, 2	195
HAYWARD, Miss P., B.A., 193, Hyde Park Road, Leeds, 6	148
HAZELWOOD, Miss M., 6, Springfield Mount, Leeds, 12	180
HEAD, W. G., B.Sc.(Econ.), 8, Wynford Mount, Leeds, 16	156
	123
HEARLEY, M. J. G., H.M.I., Hopewell House, Woodhouse Lane, Leeds, 2	88, 142
HEATON, Miss B., 1, St. Chad's Drive, Leeds, 6	148
HEATON, F. W., B.Sc., Ph.D., A.R.I.C., 33, Spennithorne Drive, Leeds, 16	192
HEBB, H. E., M.A., 33, Mill Hill Road, Pontefract	148
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	128, 136
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HELPS, P., University of Hull	221
HEMINGWAY, Professor A., M.B., Ch.B., M.Sc., 4, Helmsley Drive, Leeds, 16	
	64, 73, 74, 77, 86, 94, 96, 98, 99, 101, 103, 108, 128, 133, 136, 219
HEMINGWAY, Alderman W., J.P., 48, Ring Road, Middleton, Leeds, 10	57
HENCHMAN, M. J., M.A., M.S., Ph.D., School of Chemistry, The University, Leeds, 2	124
	163
HENDERSON, W., M.D., F.R.C.P.E., D.C.H., The Cedars, Huntington, York	93
HENDERSON, W. R., O.B.E., M.B., Ch.B., F.R.C.S., The General Infirmary, Leeds, 1	128, 136
HENRIQUES, L. F., M.A., D.Phil., Laurel Villa, 1, Moorland Leys, Leeds, 17	191
	155
	56, 123, 132, 219
HENSON, H., Ph.D., D.Sc., 24, Elmete Avenue, Leeds, 8	165
	124, 133, 140, 218
HENSON, P. W., B.Sc., 86, Cross Gates Road, Cross Gates, Leeds, 15	194
HEPBURN, F., M.A., M.Sc., Ph.D., Devonshire Hall, Cumberland Road, Leeds, 6	
	128
HEPWORTH, K., B.Sc., 16, Carrholm View, Leeds, 7	194
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			Staff List
HEUER, A., B.S., 6, Westcombe Avenue, Roundhay, Leeds, 8			173
HEWITT, Miss M. S., B.Sc., Tetley Hall, Moor Road, Leeds, 6	121, 215		152
			206
HEY, Professor D. H., King's College, University of London		222	
HEYTINGS, R. T., B.Ch.D., M.B., Ch.B., L.D.S., 43, Primley Park Lane, Leeds, 17		128	197
HIBBERT, J. E., J.P., 7, Mavis Lane, Leeds, 16		73	
HIBGAME, Miss D. M., M.A., 20, Charles Street, Berkhamsted, Herts.		119	
HICKEY, Miss J. F. K. P., A.T.D., Bretton Hall, Bretton, Nr. Wakefield		141	
HIDDLESTON, J. A., M.A., Sadler Hall, Church Lane, Adel, Leeds, 16	121		147
			207
HIGGINS, The Rev. A. J. B., M.A., B.D., Ph.D., 10, Westville Avenue, Ilkley			
	121, 131		151
HIGGINS, J. S., H.N.D., 41, Grasmere Road, Huddersfield			169
HIGGINSON, G. R., B.Sc., Ph.D., A.M.I.Mech.E., 12, Mavis Avenue, Leeds, 16			
	126, 134		170
HIGHAM, N., B.A., A.L.A., Upper Flat, 247, Hyde Park Road, Leeds, 6			150
			203
HILL, B., 6, Linton Grove, Leeds, 17			211
HILL, C. L., Groundsman's House, Weetwood, Leeds, 16			211
HILL, Miss D. M., Swincar House, Kirk Lane, Yeadon, Leeds			190
HILL, Miss F., 38, Becketts Park Drive, Leeds, 6			175
HILL, G. W., M.A., 15, Arncliffe Road, Leeds, 16	121		146
HILL, Mrs. L. M., 6, Linton Grove, Leeds, 17			210
HILL, Miss P. A., 12, Deanswood View, Leeds, 17			175
HILLAS, A. M., B.Sc., Ph.D., 12, Springfield Terrace, Guiseley, Leeds	124, 134		161
HILLMANN, H. C., M.A., 78, Weetwood Lane, Leeds, 16	123, 131		155
HIORNS, R. W., M.A., 25, Cromer Terrace, Leeds, 2	124		160
HIRD, Alderman H., M.A., 5, North Park Road, Heaton, Bradford			57
HITCHIN, Professor A. D., Queen's College, University of St. Andrews		223	
HOARE, F. E., M.Sc., Ph.D., A.R.C.S., F.Inst.P., 7, Bainbrigg Road, Leeds, 6			
	77, 103, 110, 124, 133, 215		160
HOCKIN, Miss C. J., Flat 6, 30, Park Avenue, Leeds, 8			175
HODGKINSON, A., B.Sc., Ph.D., A.R.I.C., 5, Welburn Avenue, Leeds, 16			192
HODGSON, D. R., B.Sc., Ph.D., Dip.Agric., 21, Parkside Road, Leeds, 6	126, 134		178
HODSON, A. L., M.Sc., Ph.D., 4, Athel Court, St. Helen's Lane, Adel, Leeds, 16			
	124		161
HOIBURT, Miss F. E., 47, Dawlish Avenue, Leeds, 9			185
HOLDING, D. H., M.A., Ph.D., 72, Cardigan Road, Leeds, 6	124, 134		168
HOLDSWORTH, Miss M. J., B.Sc., 3, Devonshire Terrace, Bradford, 9			192
HOLLAND, F., M.A., Leeds Modern School, Leeds, 16		62, 142	
HOLLIDAY, R., B.Sc., The Laurels, Grove Road, Boston Spa, Yorks.	126, 133		178
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		128, 136	196
			174
HOLLINGWORTH, N. W., B.Sc., 52, Cardigan Road, Leeds, 6			
HOLLINS, T. H. B., M.A., M.Ed., James Graham College, Czar Street, Leeds, 11	87, 141		210
HOLLIS, Miss J., 34, Mount Preston, Leeds, 2			
HOLLIS, T., 47, Haddon Road, Norbreck, Blackpool	119		
HOLMES, O. G. L., Hawstone, Spring Gardens Lane, Keighley	100		
HOLT, Miss J., Flat B., 19, Moorland Road, Leeds, 6			210
HOLT, PERCY A., Woodcote, Woodhall Lane, Calverley, Leeds	100		
HOLTON, J. B., B.Sc., A.R.C.S., 10, Woodland Close, Leeds, 15	128		184
HONIKMAN, Miss B., M.A., Ellerslie Hall, Lyddon Terrace, Leeds, 2			153
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HOPKINS, H. J., 27, Cromer Terrace, Leeds, 2	196
HOPPER, Professor F. E., M.D.S., F.D.S.R.C.S., 23, Ancaster Road, Leeds, 16	196
86, 94, 96, 105, 108, 128, 133, 136, 218	198
HORLER, D. F., B.Sc., Ph.D., Flat F, 20, North Hill Road, Leeds, 6	178
HORNER, K., 7, Grasmere Crescent, Harrogate	193
HORNSEY, G., LL.M., 107, Cookridge Lane, Leeds 16	158
60, 123, 132	172
HORSFALL, F., A.I.S.T., 101, Cross Flatts Grove, Leeds, 11	172
HORTON, Miss C. M., c/o Mr. Thomas, Lloyds Bank Chambers, Vicar Lane, Leeds, 1	210
HOUGH, The Rev. W. E., B.D., M.A., Rawdon College, Rawdon, Leeds	121 152
HOUGHTON-EVANS, W., A.R.I.B.A., A.M.P.T.I., 7, Orville Gardens, Leeds, 6	126 169
HOUSE, A., A. H. A., Stockport Infirmary, Wellington Road, South Stockport	93
HOW, Miss J. L., 46, Hollin Park Mount, Leeds, 8	171
HOW, L., 46, Hollin Park Mount, Leeds, 8	198
HOWES, Miss C., 39, West View, Leeds, 11	200
HOWITT, Miss M., 86, Burlington Road, Leeds, 11	200
HUBBERT, Miss J. A., Graysholme, Larkfield Avenue, Rawdon, Leeds	161
HUDSON, Miss D., 19, Midland Road, Leeds, 6	210
HUDSON, P., B.Sc., 30, Hyde Park Terrace, Leeds, 6	163
HUDSON, R., White Lodge, Hookstone Road, Harrogate	85
HUGH, A., M.B., B.Ch., M.R.C.P.E., D.M.R.D., 11, King George Avenue, Leeds, 7	194
HUGHES, D., B.Sc., Department of Pathology, The University, Leeds, 2	184
HUGHES, D., B.Sc., Ph.D., A.Inst.P., A.M.I.E.E., Department of Medical Physics, The University, Leeds, 2	195
HUGHES, E., 16, Royal Park Grove, Leeds, 6	198
HUGHES, Emeritus Professor J. D. I., B.C.L., M.A., Bugeilyn, Borth, Cardiganshire	111
HUGHES, Miss M., 209, Bradford Road, Stanningley, Leeds	202
HULETT, J. R., M.A., D.Phil., Devonshire Hall, Cumberland Road, Leeds, 6	126, 134
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HULLIN, R. P., M.Sc., Ph.D., F.R.I.C., J.P., 5, Wynford Terrace, Leeds, 16	60, 128, 135, 136
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HUME, J., B.Sc., A.R.I.C., Hazelhead, 44, Green Lane, Leeds, 16	94, 119
HUMPHRYS, Major H. J., C.B.E., D.S.O., M.C., 119, Thorne Road, Doncaster	92
HUNKIN, Miss E. R., M.A., Flat 17, Grange Court, North Grange Road, Leeds, 6	121
121	148
HUNT, D., F.R.C.O. (C.H.M.), A.R.C.M., 20, Dennistead Crescent, Leeds, 6	151
HUNT, E. G., 13, North Hill Road, Leeds, 6	180
HUNT, K. L., B.Sc., Ph.D., Rose Villa, Scorton, Richmond, Yorks.	124, 138, 215, 216, 217
124, 138, 215, 216, 217	201
HUNTER, B., G.I.Mech.E., 8, Lucas Place, Leeds, 6	170
HUNTER, G. B. B., M.A., 34, Tong Lane, Tong, Bradford	121, 132
121, 132	150
HUNTER, Major J. C., M.C., O.B.E., Crimble Brow, Pannal, Harrogate	95
HUTCHINGS, E. A., O.B.E., Messrs. T. and W. N. Hutchings, Ltd., Warrington, Lancs.	90
90	174
HUTCHINSON, M., B.Sc., 10, Moor Terrace, Leeds, 6	181
HUTCHINSON, W., A.I.S.T., 33, Alder Hill Grove, Leeds, 7	181
HUTCHISON, W. K., C.B.E., M.Inst.Gas E., South Eastern Gas Board, Catherine Street, Croydon, Surrey	75
75	
HYMAN, County Alderman W. M., 32, Queen Road, Harrogate	62, 65, 80, 81, 87, 94, 139, 141
62, 65, 80, 81, 87, 94, 139, 141	
INUMA, T. A., M.Sc., 8, Canholme View, Leeds, 7	194
ILETT, J. J., M.A., 12, Holmfild Drive, Leeds, 8	120
120	
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	189

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		Staff List
ILLINGWORTH, G. H., M.A., M.D., L.R.C.P., M.R.C.S., D.M.R.Ed., The General Infirmary, Leeds, 1	128, 136	194
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	119	
INGLE, LAWRENCE A., Thorncliffe, St. Andrew's Avenue, Morley, Leeds	57, 90	
IRELAND, G. W., M.A., 14, Moss Gardens, Leeds, 17	121	147
IRESON, J. C., M.A., Tithe House, Town Street, Horsforth, Leeds	121	147
IRVINE, E. D., M.D., L.R.C.P., M.R.C.S., D.P.H., Municipal Buildings, Halifax Road, Dewsbury, Yorks.	93	
IRVING, Professor H. M. N. H., M.A., D.Phil., D.Sc., F.R.I.C., L.R.A.M., 1, North Grange Mount, Leeds, 6	104, 108, 124, 133, 136	162
ISHIGURO, Miss HIDEKO, B.A., B.Phil., Flat 2, 7, Clarendon Place, Leeds, 2	121, 132	150
ISLES, G. L., B.Sc., Ph.D., A.R.I.C., 100, Bywell Road, Dewsbury, Yorks		174
ISSERLIN, B. S. J., M.A., B.Litt., D.Phil., 154, Otley Road, Leeds, 16	121, 131	145
IVIN, K. J., B.Sc., M.A., Ph.D., 1, West Park Avenue, Leeds, 8	124, 133	163
IVINS, Professor J. D., University of Nottingham	222	
JACKSON, Miss C. M., 33B, St. Michael's Road, Leeds, 6	205	
JACKSON, D., D.D.S., M.D.S., L.D.S., Cragg View, Bradford Road, Burley-in-Wharfedale, Yorks.	128, 136, 219	197
JACKSON, E. G., B.Sc., Ph.D., Lynburn, Larkfield Drive, Rawdon, Leeds		174
JACKSON, L. T., M.A., Education Offices, West House, Halifax	87, 140	
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	128	194
JACOBS, S. I., M.B., Ch.B., 30, Shaw Lane Gardens, Guiseley, Leeds	129	185
JAMES, A. H., B.Sc., Department of Bacteriology, The University, Leeds, 2		185
JAMES, Miss G. A., 26, Westminster Drive, Burn Bridge, Harrogate		178
JAMES, G. S., B.A., c/o Mrs. Hodsmen, 2, Norwood Grove, Leeds, 6	124, 135	159
JAMES, Professor P. S., M.A., Hillside, Banks Lane, Riddlesden, Keighley	56, 108, 123, 131, 132, 215, 218, 220	158
JAMES, W. R. LESTER, Welsh National School of Medicine, Cardiff	223	
JAMIESON, J. G., M.A., B.M., B.Ch., D.C.H., 30, North Parade, Leeds, 16		195
JAYKO, M. E., Ph.D., School of Chemistry, The University, Leeds, 2		164
JEFFARES, Professor A. N., M.A., Ph.D., D.Phil., 41, Park Lane, Leeds, 8	64, 72, 82, 84, 85, 88, 106, 108, 121, 131, 139	146
JEFFERSON, D. W., B.A., B.Litt., 21, Lyddon Terrace, Leeds, 2	121, 131	146
JEFFREY, A. G., B.Com., 8, Allerton Drive, East Keswick, Leeds	126, 133	179
JEFFRIES, Miss M. B., 184, Scott Hall Road, Leeds, 7		204
JENNINGS, B., B.A., M.A., 2, Cannon Gardens, Richmond, Yorkshire	121, 138	201
JENNINGS, D.H., B.A., M.A., D.Phil., 34, Dennistead Crescent, Leeds, 6	124, 135	166
JENNINGS, J. B., B.Sc., Ph.D., Ashlea, West Lane, Baildon, Yorks.	124	165
JEPSON, L., A.I.B.P., A.I.S.T., 36, Arlington Road, Leeds, 8		198
JEPSON, N. A., B.A., Ph.D., 5, Old Barn Close, Leeds, 17	122, 138, 140	157
JERVIS, Emeritus Professor J. JOHNSTONE, M.D., D.P.H., Tong Norton Farm, Shifnal, Shropshire	95, 111	201
JESSOP, Professor T. E., University of Hull	221	
JESSOP, Professor W. J. E., Moyné Institute of Preventive Medicine, Trinity College, Dublin	223	
JOHNS, J. T. C., A.I.S.T., 28, Richmond Avenue, Leeds, 6		165
JOHNSON, A., B.Sc.(Econ.), 87, Wensley Road, Leeds, 7	123, 138	201
JOHNSON, Miss B. M., 242, Otley Road, Leeds, 16		210
JOHNSON, C., B.A., 8, Grange Park Avenue, Leeds, 8	122, 138	201
JOHNSON, C. A., B.A., Flat A, 138, Woodsley Road, Leeds, 2	122	148

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NAMES AND ADDRESSES

	Staff List
JOHNSON, Professor D. C., M.A., A.M.I.Mech.E., 14a, Wood Lane, Leeds, 6	
78, 108, 126, 133, 217, 220	169
JOHNSON, H. G. L., L.D.S., 32, Park Square, Leeds, 1	129 197
JOHNSON, Miss H. M., 5, Brookfield Road, Leeds, 6	198
JOHNSON, L. G., B.A., 3, Round Down, Gomshall, Surrey	119
JOHNSON, Miss MABEL, B.Com., 28, Hyde Terrace, Leeds, 2	209
JOHNSON, R. L., B.Sc., Ph.D., Department of Geology, The University, Leeds, 2	167
JOHNSON, R. S., B.Mus., B.A., Department of Music, The University, Leeds, 2	122 151
JOHNSON, Mrs. V., 23, Bainbrigge Road, Leeds, 6	210
JOHNSTONE, Professor A. S., M.D., F.R.C.S.E., F.F.R., D.M.R.E., The General Infirmary, Leeds, 1	108, 129, 136 194
JOHNSTONE, K. I., B.Sc., M.B., Ch.B., Ph.D., 30, West Park Crescent, Leeds, 8	129, 133, 136 185
JOLLEY, Miss M. E., 8, Primley Park Road, Leeds, 17	165
JONES, A. POWELL, M.Sc., 22, Montpelier, Cliff Road, Leeds, 6	126, 133 179
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.	122, 213 199
JONES, D., D.L.C., 195, Kirkstall Lane, Leeds, 6	174
JONES, Mrs. D., 91, Leysholme Crescent, Leeds, 12	158
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	212
JONES, F., B.Sc.(Tech.), Ph.D., 18, Joseph Avenue, Northowram, Halifax	126, 135 177
JONES, F. T., B.S., Ph.D., 93, Clarendon Road, Leeds, 2	164
JONES, G. R. J., M.A., 12, Alder Hill Avenue, Leeds, 6	122, 132 150
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. A. L. VAUGHAN, C.B.E., M.B., Ch.B., J.P., 1, Darnley Road, Leeds, 16	129 195
JONES, Emeritus Professor J. H., M.A., LL.D., 34, Park Road, Surbiton, Surrey	111
JONES, P. J., M.A., D.Phil., 31, Spennithorne Avenue, Leeds, 16	122, 131 149
JORDAN, Miss D., Woolley Hall, Woolley, Wakefield	88
JORDAN, Miss R., 26, Westbourne Avenue, Leeds, 11	210
JORDAN, Professor R. F., A.R.I.B.A., A.A.Dipl., 178, Coleherne Court, London, S.W.5	108, 122, 131 153
JOWETT, A., B.Sc., Ph.D., 236, Town Street, Leeds, 10	126, 134 171
JOWETT, Miss E. M., 26, St. Ann's Drive, Leeds, 4	160
JOYCE, Miss U. C., 16, Eberston Terrace, Leeds, 6	210
JULL, J. W., B.Sc., Ph.D., 17, Ings Road, Leeds, 9	129, 136 186
KABERRY, Sir DONALD, Bt., T.D., M.P., Adel Willows, Leeds, 16	57, 66
KAY, L. R., B.A., 13, Ashleigh Road, Leeds, 16	209
KAYE, R. C., B.Pharm., Ph.D., F.P.S., 6, Belmont Avenue, Baildon, Shipley	129 183
KEAN, A. M., M.A., Institute of Education, The University, Leeds, 2	87, 122, 132, 141, 142, 214, 215, 220 199
KEATES, L. W., M.A., Department of Spanish, The University, Leeds, 2	122 149
KEIGHTLEY, C., M.Sc., The Chalet, 31, Nunroyd Road, Leeds, 17	62, 66, 101, 143
KEIGHTLEY, Mrs. B., The Chalet, 31, Nunroyd Road, Leeds, 17	212
KELLERMANN, E. W., Dr. Phil., Ph.D., F.Inst.P., 970, Scott Hall Road, Leeds, 17	110, 124, 134 161
KELLETT, R. P., B.Sc., A.M.I.Mech.E., Oakwood House, Oakwood Lane, Leeds, 8	61, 69, 143

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KELLETT, Mrs. R. P., B.Com., Oakwood House, Oakwood Lane, Leeds, 8	105	
KELLY, A., M.A., LL.B., Barrister-at-Law, 6, Buckingham Mount, Leeds, 6	80, 122, 138	201
KELLY, Mrs. M., 23, Cavendish Road, Leeds, 1		211
KELLY, P. G., B.Sc., 15, Clarendon Place, Leeds, 2		167
KELLY, P. M., B.A., Ph.D., 35, Cookridge Avenue, Leeds, 16	126	174
KEMP, Mrs. E., 16, Montpelier, Cliff Road, Leeds, 6		182
KENNEDY, Professor W. Q., D.Sc., F.R.S., F.G.S., Ridgefield, North Hill Road, Leeds, 6	92, 108, 124, 133	166
KENNER, Professor G. W., University of Liverpool	222	
KENNY, A. J., M.B., B.S., Ph.D., 17, The Drive, Leeds, 8	129	182
KER, Miss J., 42, Headingley Avenue, Leeds, 6		210
KERR, Mrs. M. H., B.Sc., 29, Shaw Lane, Leeds, 6		167
KERR, T., M.A., D.Sc., 29, Shaw Lane, Leeds, 6	124, 133	165
KERSHAW, M., B.Sc., 17, Moseley Wood Gardens, Leeds, 16		174
KETTLE, A. C., M.A., Ph.D., 36, Moor Road, Leeds, 6	122, 131	146
KETTLEWELL, C. T.,	58	
KEYS, Professor I., University of Nottingham	221	
KIBBLE, Mrs. M. J., 38, Wetherby Road, Leeds, 8		163
KIDD, C., B.Sc., Ph.D., 10, Belvedere Road, Leeds, 17	129	181
KIDD, F., M.A., 13, Plevna Terrace, Bingley, Yorks.		176
KIDD, J. N., L.I.B.S.T., 14, Wynford Avenue, Leeds, 16		198
KILBY, B. A., M.A., Ph.D., 20, Kingswood Grove, Leeds, 8	129, 133, 136	182
		208
KILHAM, J. K., B.Sc., Ph.D., A.R.I.C., 17, Drummond Avenue, Leeds, 16		174
KING, Mrs. A. R., B.Sc., Mixton House, Lerryn, Lostwithiel, Cornwall	120	
KING, Miss E. F., Lyddon Hall, Virginia Road, Leeds, 2		207
KING, Professor H. J., B.Sc.(Eng.), Ph.D., A.M.I.Min.E., 45, Kingsley Avenue, Leeds, 16	83, 108, 126, 133, 217, 220	171
KING, Mrs. J., 1a, Grange Park Crescent, Leeds, 8		191
KING, Miss P., 2, Conway Street, Leeds, 9		210
KINSLEY, Professor J. R., University of Nottingham	221	
KIRBY, D., B.Sc., Ph.D., 7a, North Hill Road, Leeds, 6	122, 134	159
KIRK, M., M.A., 2, Brooklands, East Keswick, Leeds	123, 132	156
KISBY, C., A.R.C.A., A.T.I., 4, Davies Avenue, Old Park Road, Leeds, 8	71, 126, 133	175
KITCHING, Miss M., 43, Bagby Road, Leeds, 2		202
KITSON, Miss D., B.A., 5, Edgware Avenue, Leeds, 8		169
KITSON, Colonel GEOFFREY H., O.B.E., Heron Court, Linton-on-Wharfe, Wetherby	62, 67, 69, 71, 73-80, 83, 85-87, 89-103, 141	
KLEIN, R., Ministry of Education, Curzon Street, London, W.1	88	
KNEEBONE, R. M. T., M.A., Beckfield County Secondary School, York	142	
KNIGHT, Professor G. WILSON, M.A., F.I.A.L., F.R.S.L., 9, Moor Park Drive, Leeds, 6	108, 122, 131	146
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		211
KNORRING, O. VON, M.Sc., Ph.D., 21, Churchwood Avenue, Leeds, 16		167
KNOWLES, Miss BARBARA, 5, Park Chase, Harrogate		188
KNOWLES, Miss V., 42, Pearson Street, Altofts, Normanton		199
		204
KROCH, F. H., Ph.D., Burford, Broad Oak Road, Worsley, Lancs.	90	
LADLEY, Miss A., 41, Montreal Avenue, Leeds, 7		184
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	

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NAMES AND ADDRESSES

	Staff List
LAING, A., M.A., Ed.B., 14, Caythorpe Road, Leeds, 16	152
105, 106, 110, 122, 131, 219, 220	205
LAMB, The Rev. Canon P. J., M.A., St. John's College, York	88, 141
LANG, The Rev. G., M.A., The University, Leeds, 2	236
LANGHORNE, Miss M. L., S.R.N., S.R.C.N., Children's Department, St. James's Hospital, Leeds, 9	189
LANGLEY, R. L., M.A., M.D., F.R.C.P.E., Highthorne Cottage, Husthwaite, York	93, 119
LANGSTADT, E., Ph.D., 9, Buckingham Drive, Leeds, 6	203
LANGTON, Councillor A., 76, Marygate, York	139
LANGWORTH, E. P., M.B., Ch.B., Department of Medicine, The University, Leeds, 2	188
LARKIN, Miss P. A., 25, Sandringham Way, Leeds, 17	210
LATCHMORE, A. J. C., M.B.E., M.S., F.R.C.S., 20, Clarendon Road, Leeds, 2	129, 136
129, 136	191
LATHE, Professor G. H., M.Sc., M.D.C.M., Ph.D., 14, Lidgett Park Road, Leeds, 8	86, 108, 129, 136
186, 108, 129, 136	184
LA TOUCHE, C. J. P., M.Sc., L.A.H., 4, Oakwell Drive, Leeds, 8	129
129	185
	188
LATTER, Major-General J.C., C.B.E., M.C., D.L., Riverside Cottage, Naburn, York	91
LAWRENCE, Mrs. K. M., M.A., A.L.A.M., 42, Weetwood Lane, Leeds, 16	153
LAWRENCE, R. C., M.B., Ch.B., D.A., F.I.C.A., F.F.A.R.C.S., 6, Wedgwood Grove, Leeds, 8	129
129	193
LAWRENSON, P. J., M.Sc., A.M.I.E.E., 11, Cookridge Avenue, Leeds, 16	126
126	171
LAWS, J. O., M.A., M.B., B.Chir., Ph.D., M.R.C.P., M.R.C.S., 13, Caythorpe Road, Leeds, 16	129
129	186
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LAWSON, A. J.	
LAWSON, A. T., A.I.S.T., 19, Greenwood Road, Tingley, Nr. Wakefield	170
LAWSON, Miss J., 11, Cross Flatts Crescent, Leeds, 11	205
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., 46, Oakwell Oval, Leeds, 8	179
LAYBOURN, J. E., M.A., 2, Ringwood Avenue, Wetherby Road, Leeds, 14	120
LAYCOCK, Mrs. I., 14, Churchfield Street, Leeds, 6	210
LAYCOCK, L. E., O.B.E., B.Com., J.P., Perseverance Mills, Woodhouse Carr, Leeds, 6	62, 67
62, 67	
LAYTON, D., M.A., M.Sc., 55, St. Chad's Drive, Leeds, 6	122
122	153
LEACH, Lt.-Col. A. P., Cherry Tree Cottage, Clifford, Boston Spa	91
91	
LEACH, Miss BETTY M., 27a, Arncliffe Road, Leeds, 16	205
LEAH, A. S., B.Sc., Ph.D., A.M.I.C.E., A.M.I.Mech.E., 19, Wynford Mount, Leeds, 16	126, 133
126, 133	170
LEAK, Miss DOROTHY M., B.A., 29, Fitzroy Drive, Leeds, 8	203
LEAK, F., 10, Heaton Avenue, Leeds, 12	196
LEDSONE, J. R., M.B., Ch.B., 262, West Park Drive, Leeds, 8	129
129	182
LEE, F., 11, Tinshill Drive, Leeds, 16	77, 103
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LEE, Miss M., 22, Deanswood Drive, Leeds, 17	165
LEEEDALE, G. F., B.Sc., Ph.D., 11, Moor Grange Rise, Leeds, 11	124
124	166
LEEMING, F. A., B.A., 14, Holly Park, Huby, Leeds	122
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LEPAGE, Miss S. A., 35, Gledhow Wood Avenue, Leeds, 8	200
LE PATOUREL, Professor J., M.A., D.Phil., D. de l'Univ., Westcote, Hebers Ghyll Drive, Ilkley	72, 108, 122, 131, 215, 217, 219
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LEVELL, M. J., M.A., 56, Graveleythorpe Road, Leeds, 15	129
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LEWIS, G. M., M.B., Ch.B., D.C.H., M.R.C.P.(E.), 16, Buckstone Crescent, Leeds, 17	129
129	189
LEWIS, J. R., B.Sc., Ph.D., 10, West Park Grove, Leeds, 8	124, 135
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LEWIS, Mrs. M. A., Fairhaven, 1, James Avenue, Leeds, 8	210

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LIDDELL, L. E., The Pellock Institute of Physical Education, 46, Pleasance, Edinburgh	221
LIGHTFOOT, E., M.Sc.(Eng.), Ph.D., A.M.I.C.E., M.I.Struct.E., 40, Heslington Lane, Fulford, York	126, 133, 217 169
LILEY, Miss D. A., 4, Givendale Court, Weydale Avenue, Scarborough	119
LILLEY, B. A., B.Sc., Ph.D., 6, The Fairway, Leeds, 17	126 173
LINDEN, R. J., M.B., Ch.B., Ph.D., 8, Wetherby Road, Leeds, 8	129, 136 182
LINDLEY, W. H., 50, Brownhill Terrace, Leeds, 9	211
LISSIMORE, N., M.D., 37, Arncliffe Road, Leeds, 16	129 183
LISTER, Miss E. D., B.Sc., 25, Banks Lane, Riddlesden, Keighley	166
LISTER, Alderman Miss E. M., M.B.E., 442, Street Lane, Leeds, 17	93
LISTER, Miss URSULA M., M.D., F.R.C.S.E., F.R.C.O.G., Causeway Cottage, Long Causeway, Leeds, 16	76, 129, 136, 218 193
LITTLE, J. C., M.B., Ch.B., M.R.C.P.E., D.P.M., 103, Cookridge Lane, Leeds, 16	129, 136 190
LITTLE, K. L., University of Edinburgh	221
LITTLEWOOD, G., A.I.M.L.T., The Cottage, Lumby, South Milford	187
LITTLEWOOD, J. M., M.B., Ch.B., D.C.H., 7a, Park View Crescent, Leeds, 8	129 189
LLOYD, L., D.Sc., 185, Sewerby Road, Bridlington	120
LLOYD, Miss S. M., M.I.M.A., Tetley Hall, Moor Road, Leeds, 6	206
LOACH, J. V., B.Sc., Ph.D., F.R.I.C., 29, Cumberland Road, Leeds, 6	56 209
LÖB, M. H., M.A., Ph.D., 8, Claremont Road, Leeds, 6	124, 134 159
LOCKYER, A. J. P., M.A., 14, First Avenue, Rawdon, Leeds	196
LOGAN, S. R., B.Sc., Ph.D., School of Chemistry, The University, Leeds, 2	164
LOLLEY, A. M., 4, Langwith Terrace, Harewood Road, Wetherby, Yorks.	209
LONG, Miss C., 16, Bowood Avenue, Leeds, 7	210
LONG, F. A., B.Sc., 29, Weetwood Court, Leeds, 16	119
LONG, P., B.A., M.A., 28, Wetherby Road, Leeds, 8	122 150
LONG, W. H., M.A., 73, Gledhow Wood Road, Leeds, 8	60, 126, 133 179
LONGDEN, H. A., B.Sc., Production Department, National Coal Board, Hobart House, Grosvenor Place, London, S.W.1	92
LONGFIELD, M. D., B.Sc., A.M.I.Mech.E., 31, Brudenell View, Leeds, 6	126 170
LONSDALE, A., M.A., 5, Ashwood Terrace, Leeds, 6	158
LORD, O. C., Ch.M., D.L.O., F.R.C.S.E., 30, Park Square, Leeds, 1	129, 136 192
LORD, P. S., A.R.I.C., 1, Wynmore Crescent, Bramhope, Leeds	184
LOVELL, K., B.Sc., M.A., Ph.D., 25, St. Chad's Rise, Leeds, 6	88, 122, 213, 215, 219 199
LOVIS, J. D., B.Sc., Ph.D., 4, Hollin Drive, Leeds, 16	124 166
LOVOCK, J., 2, Arncliffe Terrace, Otley	208
LOWCOCK, R., 53, Stonebridge Grove, Leeds, 12	208
LOWE, A. D., B.A., 7, Edwin Road, Leeds, 6	122 151
LOWE, E. A., B.Sc.(Econ.), A.C.A., A.C.I.S., 5, Belvedere Gardens, Leeds, 17	123 156
LOWY, S., M.A., 1, Norman Place, Leeds, 8	122 145
LUDLAM, G. B., M.D., D.L.O., D.T.M. & H., 25, The Avenue, Leeds, 8	185
LUMBY, H. GRAYSHON, M.S.I.A., N.D.D., 37, Tofts Road, Pudsey, Leeds	188
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LUMSDEN, Professor C. E., M.D., Department of Pathology, The University, Leeds, 2	86, 108, 129, 136 183
LUPTON, Miss ELINOR G., LL.D., J.P., Beechwood, Leeds, 8	58
LUPTON, Miss ELIZABETH M., Beechwood, Leeds, 8	58
LYON, S. D., I.C.I., Ltd., Weton Works, Middlesbrough	69
LYONS, J., M.B., Ch.B., D.P.H., L.R.C.P., M.R.C.S., 49, The Fairway, Leeds, 17	195
LYONS, P., 22, South Farm Crescent, Leeds, 9	211
LYTHGOE, Professor B., M.A., Ph.D., F.R.I.C., F.R.S., 113, Cookridge Lane, Leeds, 16	69, 100, 108, 124, 133, 136, 218, 164

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McADAM, Professor R., Mining Laboratories, 79, Grassmarket, Edinburgh	222
MACADAM, Emeritus Professor W., M.A., B.Sc., M.D., F.R.C.P., D.P.H., 24, Park Square, Leeds, 1	93, 95, III
MCALPINE, Miss E. M., M.A., Tetley Hall, Moor Road, Leeds, 6	206
MACARTHUR, J., M.A., B.Sc., Ph.D., Department of Biomolecular Structure, The University, Leeds, 2	124, 133, 214
MACARTHUR, B., B.A., The University Union, Leeds, 2	69, 94, 105
MCATAMNEY, The Rev. H. V., S. J., 25, Clarendon Place, Leeds, 2	236
MACCARTHY, P. A. D., M.A., Sunnyside, 2, Weetwood Grange Grove, Leeds, 16	122, 131
MCLENNAND, Mrs. B., 1, Cart Manor Garth, Leeds, 17	153
MCCORMICK, E. H., M.A., M.Litt., School of English, The University, Leeds, 2	176
MCCOY, C. A., B.S., M.A., Ph.D., 94, Belle Vue Road, Leeds 3	146
MCCREATH, Miss M. H., Lupton Hall, Wood Lane, Leeds, 6	157
MCCRICK, Miss VERENA N. R., M.A., L.R.A.M., Ellerslie Hall, Lyddon Terrace, Leeds, 2	206
MACDONALD, The Rev. J., M.A., B.D., S.T.M., Ph.D., 23, Castle Grove Avenue, Leeds, 6	149
MACDONALD, Alderman J. E., 13, Thornhill Road, Westtown, Dewsbury	207
MCDONALD, J. R., 4, Fifth Avenue, Bridlington	122, 132
MACDONALD, R. R., M.B., Ch.B., D.Obst.R.C.O.G., M.R.C.O.G., Devonshire Hall, Leeds, 6	60
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	78
MCDUGALL, I. R., B.Sc., A.M.I.Chem.E., 15, Hawkswood Avenue, Bradford, 9	129
McDOUGALL, J., M.A., Ph.D., The University, Leeds, 2	173
McFARLANE, J., B.Sc., B.Eng., F.G.S., 443, Leeds Road, Scholes, Leeds	124, 133
McGRAIL, D. L., 20, Hawks Nest Gardens West, Leeds, 17	151
MACGREGOR, A. J., B.D.S., F.D.S.R.C.S., 12, Wood Lane, Leeds, 6	161
MACGREGOR, J., B.A., M.Ed., Ph.D., Gallowfields Road, Richmond, Yorks.	126, 135, 218
MACHIN, C., Production Director, North Eastern Division, National Coal Board, Doncaster	171
MACLIVER, J. E., B.A., M.D., F.R.S.M., 135, Gipton Wood Road, Leeds, 8	211
MACK, Professor A. O., King's College, University of Durham	129
MACKAY, D., B.Sc., Ph.D., Department of Pharmacology, The University, Leeds, 2	197
MACKAY, W. D., M.B., Ch.B., Department of Pathology, The University, Leeds, 2	122, 138, 214, 216
MCKELVIE, Miss C., Dip.Phys.Ed., Department of Physical Education, The University, Leeds, 2	201
MACRENZIE, A. G., M.A., A.L.A., 124, Tinsill Lane, Leeds, 16	92
MACKEY, R. D., B.Sc., A.M.I.C.E., 124, New Adel Lane, Leeds, 16	183
MCKINLAY, P. C., M.D., The Gables, Beverley, Yorkshire	203
MACKINNON, Mrs. J. M., M.B., Ch.B., 305, Harrogate Road, Leeds, 17	169
MACKINNON, L., M.A., Ph.D., 24, Kepstorn Road, Leeds, 16	124, 133, 216
MACKINTOSH, F. G., M.B., Ch.B., D.A., F.F.A.R.C.S., Dunsfold, Moor Road, Bramhope, Leeds	129
MACKINTOSH OF HALIFAX, The Right Hon. the Viscount, LL.D., D.L., J.P., Thickthorn Hall, Hethersett, Norfolk	193
MCLEISH, J., B.Sc., Ed.B., Elm Bank, Grove Road, Ilkley	122, 138
MCLENNAN, R. B., B.Met., 98, Lady Ann Road, Batley	174

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MACLENNAN, A., B.Sc., Huddersfield Technical Training College, Huddersfield		
	88, 141	
MCLEOD, Emeritus Professor J. W., O.B.E., M.B., Ch.B., Sc.D., F.R.S.,		
72, Falcon Avenue, Edinburgh, 10		111
McMENEMY, Mrs. R. IRENE, 51, Moseley Wood Green, Leeds, 16		205
MACMAHON, Miss C., B.Sc., Leeds Day Training College, Czar Street, Leeds, 11		
	88, 141	
McNAMARA, A. B., B.Sc. (Eng.), Devonshire Hall, Cumberland Road, Leeds, 6		176
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MACPHAIL, A. N., M.C., M.D., D.P.H., 1, The Drive, Leeds, 8	129, 136, 218	195
McQUAIL, D., B.A., 9, Moorland Road, Leeds, 6		157
MACRAE, J. C., B.Sc., M.Inst.F., F.R.I.C., 11, Weetwood Court, Leeds, 16		
	126, 133, 214, 215	173
MCTAGUE, G., D.A., 11, Lancaster Park Road, Harrogate	122, 138	201
McVIE, Alderman A. E., J.P., 13, Rowland Road, Barnsley	62, 66	
McWHINNEY, W. H., A.B., Ph.D., 5, Belvedere Gardens, Leeds, 17		156
MACZEK, A. O. S., B.A., 12, Hollin Gardens, Leeds, 16		163
MADDOX, I. J., B.Sc., Top Flat, Ridgefield, North Hill Road, Leeds, 6	124	160
MADGE, Miss E. L., North Riding Training College, Scarborough	88, 141	
MAJOR, Mrs. N. M., 10, Manston Avenue, Leeds, 15		212
MALINS, Capt. C. W., D.S.O., D.S.C., R.N.,	90	
MANKIN, H. J., 45, Whinfield, Adel, Leeds, 16		211
MANN, J. P., B.A., 4, Princes Grove, Leeds, 6	122, 132	146
MANNING, F. J., 227, Whitehall Road, Leeds, 12		209
MANNING, Mrs. P. M. Y., Flat B, 90, Clarendon Road, Leeds, 2		170
MANTON, Professor IRENE, B.A., Ph.D., Sc.D., Hon.D.Sc., F.R.S., 15, Harrowby Crescent, Leeds, 16	64, 108, 124, 133, 136	166
MANUEL, A. J., B.Sc., Ph.D., 5, Ashwood Villas, Leeds, 6	124	161
MARKILLIE, R. E. D., M.B., B.S., D.P.M., M.R.C.S., L.R.C.P., Carr Croft, Stainbeck Lane, Leeds, 7	129	190
MARMION, B. P., M.D., M.R.C.S., L.R.C.P., Manor Park, Scarcroft, Leeds		185
MARSDEN, P. L., B.Sc., Ph.D., Whittingehame, 11, Sycamore Avenue, Leeds, 8	124, 135	161
MARSH, A. A., B.Sc. (Agric.), Dip. Agric. Econ., 11, North Grange Mount, Leeds, 6	126	180
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MARSHALL, H. S., A.A.C.C.A., 12, Lidgett Mount, Leeds, 8		167
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, 122, 214, 216	152
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		145
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MARTÍN DE LA CONCHA, Señorita PAZ, Lcda. en Fil. y Let., Department of Spanish The University, Leeds, 2		149
MARTINDALE, L., B.Sc., Greenways, 85, North Lane, Leeds, 8		192
MARTINS, H. G., B.Sc. (Econ.), 4, Montpelier, Cliff Road, Leeds, 6	123	157
MASON, Miss D. NORA, 41, Eden Drive, Leeds, 4		166
MASON, G. W., 68, Redhall Crescent, Leeds, 11		211
MASON, Miss S. E., Jesmond, The Homestead, Menston-in-Wharfedale		157
MASSON, D. I., M.A., 38, Whinfield, Leeds, 16		203
MATHER, Councillor B., B.Sc., 199, Adel Lane, Leeds, 16	144	
MATHER, E. A., 100, Royal Park Road, Leeds, 6		176
MATTHEWS, Mrs. B. T., 11, Christ Church View, Armley, Leeds, 12		180
MATTHEWS, D. L., B.Sc., M.B., Ch.B., Department of Physiology, The University, Leeds, 2	129	182

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MATTHEWS, G. M., M.A., B.Litt., 56, Cliff Road, Leeds, 6	122	146
MATTHEWS, T., B.Sc., 134, Bradley Boulevard, Huddersfield	126	174
MATHIESON, A. R., M.Sc., Ph.D., F.R.I.C., 47, Parklands, Bramhope, Leeds	126, 135	175
MATTOCK, J. G., B.Sc., 7, Brunswick View, Leeds, 16	124	199
MAUDE, R., M.Sc., Ph.D., 33, Mexborough Drive, Leeds, 7	122	159
MAUFE, Lt.-Col. F. W. B., Brookside, Burley-in-Wharfedale, Yorks.	91	
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	218	195
MAXWELL, Miss E. A. M., M.A., F.R.G.S., Bingley Training College, Bingley, Yorks.	88, 141	
MAY, F., B.A., 19, Kelso Road, Leeds, 2	122, 131	148
MAYNE, A. J., B.Sc., M.A., 76, Vesper Road, Leeds, 5		160
MEAGER, Mrs. C., 17, Wynford Mount, Leeds, 16		210
MEEK, B. L., M.Sc., 28, Roundhay Crescent, Leeds, 8	124	159
MEREDITH, Professor G. P., M.Sc., M.Ed., Ph.D., F.B.Ps.S., 7, Grosvenor Mount, Leeds, 6	88, 95, 108, 124, 131, 133, 141	168
MERRELL, H. W., 17, St. Chad's Avenue, Leeds, 6	119	
METCALF, R., 17, Hollin Drive, Leeds, 16		175
MIATT, B. B., M.Sc., G.I.Mech.E., Department of Mechanical Engineering, The University, Leeds, 2	126	170
MICHAEL, D., B.Sc., Department of Civil Engineering, The University, Leeds, 2		169
MILE, B., B.Sc., Ph.D., School of Chemistry, The University, Leeds, 2		164
MILLARD, A., Jesmond, Tredgold Avenue, Bramhope, Leeds		168
MILLARD, Mrs. J. A., Jesmond, Tredgold Avenue, Bramhope, Leeds		200
MILLARD, W. A., D.Sc., Sadler House, Lowdale, Sleights, near Whitby	119	
MILLER, Miss Elizabeth, Flat 2, University House, University Road, Leeds, 2		212
MILLER, J., 4, Woodburn, Bowling Road, Ben Rhydding	139	
MILLGATE, M. H., M.A., Ph.D., Flat 5, Hilton Court, 2, North Hill Road, Leeds, 6	122, 132	146
MILLIGAN, M. O., B.A., M.A., 21, St. John's Terrace, Belle Vue Road, Leeds, 3	122, 132	150
MILLS, C. P., M.B., B.S., F.R.C.S., 1, West Park Grove, Leeds, 8	129, 136	192
MILNE, Emeritus Professor W. P., M.A., LL.D., D.Sc., 16, Monkbridge Road, Leeds, 6	111	
MILNER, The Hon. ZAIDEE, The Grove, North Lane, Leeds 8		184
MILNES, Miss IDA, B.A., 28, Smithies Moor Lane, Batley, Yorks.	144	
MITCHELL, A. J., B.Sc., 12, Cromer Terrace, Leeds, 2		160
MITCHELL, K. K., Dip.Phys.Ed., 68, Becketts Park Avenue, Leeds, 6	122	206
MITCHELL, Miss L. W., M.A., 24a, North Grange Road, Leeds, 6		191
MITCHELL, R., B.Sc., 24, Moorland Road, Leeds, 6	124	160
MITCHELL, S. C., B.Sc., A.R.I.C., A.M.Inst.F., 1, Gawthorpe Avenue, Bingley, Yorks.	126, 134	173
MITCHELL, Miss S. D., B.A., 23a, Gifford Street, Middlesbrough		202
MOBBS, F. R., M.Sc., D.I.C., 5, Garth Avenue, Leeds, 17	126, 134	170
MOGEY, G. A., M.D., Oakroyd, Oak Avenue, Burley-in-Wharfedale, Yorks.	129, 133, 136	183
MOIR, G. T., The Anglo-Saxon Petroleum Company, Ltd., St. Helen's Court, Great St. Helen's, London, E.C.3	92	
MOIR, Emeritus Professor P. J., M.C., M.B., Ch.B., F.R.C.S., 10, Windermere Road, Merton Park, London, S.W.19	111	
MONSELL, The Right Hon. The Viscountess, Dumbleton Hall, Evesham, Worcestershire	58	
MOODY, Miss A. J., 79, The Crescent, Leeds, 16		175
MOODY, D. E., B.Sc., 77, Becketts Park Drive, Leeds, 6	124, 134	161
MOOR, Miss S., 16, Moor Drive, Leeds, 6		200

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MOORE, HENRY, C.H., Litt.D., D.Litt., D.Litt., LL.D., A.R.I.B.A., Hoglands, Perry Green, Much Hadham, Herts.	84
MOORE, The Rev. W. E., B.A., M.A., B.D., M.Th., 12, Henley Drive, Rawdon, Leeds	122 152
MORGAN, R. E., B.A., Dip.Phys.Ed., Lyddon Hall, Virginia Road, Leeds, 2	205
	88, 103, 106, 122, 131, 215, 219 207
MORLEY, The Rev. Canon W. F., B.A., M.A., B.D., Leeds Vicarage, 81, Clarendon Road, Leeds, 2	67, 105, 138
MORRIS, Sir CHARLES R., M.A., LL.D., D.Litt., Vice-Chancellor's Lodge, North Hill Road, Leeds, 6	56, 57, 64, 65, 69, 87, 89-107, 121, 123, 124, 126, 128, 131, 133, 136, 138-141, 143, 218, 219, 220 208
MORRIS, Lady, O.B.E., Vice Chancellor's Lodge, North Hill Road, Leeds, 6	106
MORRIS, Professor N., Charing Cross Hospital Medical School, 62-65, Chandos Place, London, W.C.2	223
MORRIS, Mrs. P., B.A., The Cottage, St. Anne's Hill, Leeds, 4	210
MORRISBY, J. R., B.A., 3, Leadhall Way, Harrogate	122 168
MORRISON, G. A., B.Sc., Ph.D., School of Chemistry, The University, Leeds, 2	124 165
MORRISON, Miss M., M.A., N.F.F., The Margaret McMillan Memorial Training College, Trinity Road, Bradford, 5	88, 141
MORTIMER, R. S., M.A., F.L.A., 60, Gledhow Wood Grove, Leeds, 8	203
MORTON, Mrs. J. E., 24, Southend Avenue, Leeds, 13	184
MOULTON, E., Byways, West End Lane, Horsforth, Leeds	198
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
MOXON, Miss H. A., St. John's Girls' School, Clarendon Street, Wakefield	142
MUIR, J., 3, Warwick Place, Leeds, 2	196
MUIR, Miss L. R., B.A., Ph.D., Oxley Hall, Leeds, 16	122 147
MUMBY, F. S., B.A., B.Mus., 25, Gledhow Avenue, Leeds, 8	122, 132 151
MUNDEN, D. L., B.Sc., F.T.L., 73, Allerton Grange Rise, Leeds, 17	126, 135 175
MUNRO, D. C., M.A., D.Phil., 12, Hollin Mount, Leeds, 16	124, 135 162
MURRAY, A., B.A., B.Phil., Department of History, The University, Leeds, 2	122 149
MUSTO, Miss N. M., B.A., North Riding Training College, Scarborough	142
MYERS, A., A.I.M.L.T., 93, Lincroft Crescent, Leeds, 13	185
MYERS A., B.Sc., Ph.D., Department of Physics, The University, Leeds 2	124 161
MYERS, J. O., B.Sc., Ph.D., A.M.I.Min.E., 11, Thorn Lane, Haworth Road, Heaton, Bradford, 9	126, 135 171
NAIRN, Miss A., M.A., A.L.A., 13, Woodbine Terrace, Leeds, 6	203
NEEDHAM, L. W., M.Sc., A.R.I.C., F.Inst.F., Head Wrightson Colliery Engineering Ltd., 46, Rutland Park, Sheffield, 10	172
NEIL, Professor E., Middlesex Hospital Medical School, Mortimer Street, London, W.1	222
NELMES, Mrs. B. J., B.Sc., Flat 4, 24, Mount Preston, Leeds, 2	166
NELSON, G. A., M.Sc., Ph.D., F.P.S., F.L.S., 37, The Crescent, Leeds, 16	129, 134 183
NELSON, Miss J. E., Bracken Edge, Secker Lane, Woolley, Wakefield	182
NETHERTHORPE, Lord James, B.Sc., LL.D., Hadley Hurst, Monken Hadley, Barnet, Herts.	212
NEWALL, N., 12, Bedford Drive, Leeds, 16	161
NEWBIGIN, Miss NANCY, M.A., Flat 2, The Oaks, Clarence Road, Horsforth, Leeds	129 190

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			Staff List
NEWBOLD, K. M., B.Ch.D., L.D.S., 43, Rodley Lane, Rodley, Leeds	129		197
NEWBY, H., A.I.S.T., 7, Grasmere Place, Leeds, 12			166
NEWELL, Miss BRENDA M., 19, Estcourt Terrace, Leeds, 6			202
NEWLYN, W. T., B.Sc.(Econ.), 61, Grove Lane, Leeds, 6	123, 131		155
NEWMAN, P. P., M.D., 22, Montagu Drive, Leeds, 8	129, 136		182
NEWSTEAD, Miss A. L., Willowgarth, Clifford, Boston Spa, Wetherby			180
NIBLETT, D. H., M.A., D.Phil., Department of Physics, The University, Leeds, 2	124		161
NICHOLSON, D. E., B.Sc., Ph.D., F.R.I.C., 33, The Avenue, Leeds, 8	129		185
NICHOLSON, H. H., Selwyn College, University of Cambridge	222		
NICKOLS, P. R., Messrs. Richard Nickols and Son, Ltd., Burley Mills, Leeds, 4	90		
NIXON, Mrs. G., 6, Stoneleigh Avenue, Acklam, Middlesbrough			202
NIXON, P. G. F., M.B., B.S., M.R.C.P., 6, Hodgson Avenue, Leeds, 17	129		187
NOACH, A., D.Litt. and Phil., Devonshire Hall, Cumberland Road, Leeds, 6	122, 132		153
NOLTIE, H. R., M.A., B.Sc., 35, Regent Park Terrace, Leeds, 6	129, 134, 136		181
NORTH, Miss C., 11, North Lane, Leeds, 6			172
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	126		177
NUTT, RICHARD E., LL.B., Messrs. J. H. Milner and Son, Albion Walk Chambers, off Albion Street, Leeds, 1	89		
NUTTALL, J. R., M.D., D.M.R., F.F.R., The General Infirmary, Leeds, 1	129, 136		194
NUTTING, Professor J., M.A., B.Sc., Ph.D., 57, Weetwood Lane, Leeds, 16	106, 109, 126, 133, 220		174
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, 86, 98, 109, 129, 133, 136, 214		185
OATES, K., Flat C, 6, Belmont Grove, Leeds, 2	77, 103		166
O'CONNOR, W. J., M.A., M.D., 5, Kelso Road, Leeds, 2	129, 136		181
ODDY, Miss V. M. P., B.A., 4, Westbourne Avenue, Harrogate			148
ODEY, G. W., C.B.E., Messrs. Richard Hodgson and Sons, Ltd., Beverley	90		
O'DONNELL, Alderman F. H., J.P., 23, Portland Crescent, Leeds, 1	62, 64, 67		
O'DONNELL, J. H., B.Sc., Woodsley Hall, Clarendon Road, Leeds, 2			164
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OFFOR, RICHARD, B.A., Ph.D., F.L.A., 24, Tangier Road, Guildford, Surrey	111, 119		
OGDEN, Miss A., 4, Victoria Terrace, Leeds, 3			195
OLDFIELD, A., 59, Wensley Road, Leeds, 7			180
OLDFIELD, Miss G. M., Moor House, Harewood, Leeds			210
OLDFIELD, J. W. A., 175, Leeds-Whitehall Road, Wyke, Bradford			209
OLDFIELD, M. W. C., M.B.E., M.A., D.M., M.Ch., F.R.C.S., 25a, Park Square, Leeds, 1	129, 136		191
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, 88, 140, 141		
OLIVER, Miss C. P., G.F.S. Hostel, St. Mark's Avenue, Leeds, 2			210
ONIONS, W. J., B.Sc., 33, Weetwood Lane, Leeds, 6	126, 133, 218, 220		175
ORMEROD, Miss S. J., 4, Manston Gardens, Leeds, 15			148
ORTON, Professor H., B.Litt., M.A., 11, Harrowby Crescent, Leeds, 16	69, 72, 82, 91, 109, 122, 131, 214		146
OTTAWAY, A. K. C., B.Sc., M.A., A.R.C.S., Beech Cottage, Chapel Street, Leeds, 15	122, 131, 141, 217, 218		152

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OVERTON, R. B., A.C.I.S., 24, Linton Avenue, Leeds, 17		209
OVERTON, Miss S., 24, Recreation Place, Leeds, 11		205
OWEN, Mrs. M., A.M.I.A., 17, St. Chad's Drive, Leeds, 6		190
OWEN, P. E., M.A., Ph.D., L. ès L., 33, Wren Beck Drive, Otley	122, 142, 219	199
OWEN, R. W., M.Sc., Ph.D., 7, Moor Allerton Way, Leeds, 17	124, 135	165
PADGETT, Miss A. P., 62, The Drive, Leeds, 17		188
PAGE, B. S., M.A., F.L.A., Elmfield Lodge, Cumberland Road, Leeds, 6		
	71, 80, 109, 122, 131, 133, 136, 213, 217	203
PAGE, N. A., M.A., Ripon Training College, Ripon	88	
PAIN, A. B., T.D., Ch.M., F.R.C.S., 32, Park Square, Leeds, 1		181
	56, 73, 76, 81, 86, 93-96, 110, 129, 136, 218, 219	192
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PALMER, Squadron Leader A.V.E., University Air Squadron, The University, Leeds, 2		212
PALMER, E. K., L.D.S., 307, Killinghall Road, Bradford	129	198
PALMER, J., 20, Hare Park Mount, Leeds, 12		161
PALMER, J., B.A., Department of Geography, The University, Leeds, 2		
	122, 132, 134	150
PALMER, W. B., M.A., Ph.D., A.M.I.Mech.E., 2, The Avenue, Leeds, 8		
	126, 135	170
PAPINI, G., Dott.in Fis., 48, Clarendon Road, Leeds, 2		160
PARK, Miss D. C., M.Sc., 65, Clarendon Road, Leeds, 2		129
PARKER, D. B., LL.B., 39, Park Square, Leeds, 1		123
PARKER, Capt. H. O., Officers Training Corps, The University, Leeds, 2	237	212
PARKER, Miss J. M., 39, Stanhope Drive, Harrogate		204
PARKER, K. D., B.A., Ph.D., 5a, Woodhouse Cliff, Leeds, 6		167
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PARKIN, The Rev. V., M.A., B.Sc., Wesley College, Leeds, 6	122	151
PARKINSON, Miss C. M., 4, Valley Close, Leeds, 17		210
PARNABY, Miss M. C., M.A., B.Ed., City of Leeds Training College, Beckett Park, Leeds, 6	88, 141, 214	
PARRY, Miss OLWEN A., B.A., M.A., 36, Copgrove Road, Leeds, 8		
	122, 214, 216	145
PARSONAGE, M. J., B.Sc., M.B., Ch.B., M.R.C.P., D.C.H., 26, Duchy Road, Harrogate	129, 136	188
PARSONS, B., B.Sc., Ph.D., G.I.Mech.E., 64, Green Lane, Cookridge, Leeds, 16		170
	126	192
PARSONS, F. M., B.Sc., M.D., 33, Gledhow Wood Road, Leeds, 8		186
PARSONS, Mrs. MARJORIE, M.B., Ch.B., 33, Gledhow Wood Road, Leeds, 8		
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	111	
PATRICK, Mrs. A. D., B.L., 23, Cromer Terrace, Leeds, 2		209
PATTERSON, D., M.Sc., Ph.D., 8, Woodlands Close, Harrogate	126, 135	177
PATTISON, R., B.Sc.(Econ.), Saltaire County Secondary School, Shipley	142	
PAUL, W. DERRICK, Messrs. William Paul, Ltd., Oak Tannery, Kirkstall Road, Leeds, 3		90
PAUTARD, F. G. E., M.Sc., Ph.D., A.R.I.C., 51, Easterly Avenue, Leeds, 8	125	167
PEACOCK, Miss S., Sinclair, Stirling Road, Burley-in-Wharfedale		210
PEARCE, Alderman Mrs. M., J.P., 24, Springfield Mount, Leeds, 2		60
PEARSON, C. H., B.Sc., 12, Cavendish Drive, Eldwick, Bingley	126	177
PEARSON, Miss L. S., B.A., Dip.Agric., 67, Brook Street, Selby		179
PEATE, I. C., M.A., D.Sc., D.Litt.Celt., F.S.A., F.M.A., Welsh Folk Museum, St. Fagan's Castle, Cardiff		82

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PECK, A., B.Sc., A.M.I.M.M., The Bungalow, Brandon Crescent, Leeds, 17	171
	126, 134
PECK, S., A.I.M.L.T., 94, Deanswood Drive, Leeds, 17	185
PEDDIE, R., C.A., Secretary, United Steel, 17, Westbourne Road, Sheffield, 10	69
PEDLEY, J. B., M.Sc., Ph.D., Glen Garth, Mill Hill, Haworth, Keighley	164
PEEL, K. R., M.B., Ch.B., Ellesmere, Airedale Drive, Horsforth, Leeds	129
PEERS, H. W., B.Sc., 336, Burley Road, Leeds, 4	125
PEGG, A. L., A.R.P.S., 80, Gipton Wood Road, Leeds, 8	208
PEIRSE, Miss B. L., The Lodge, Richmond, Yorks.	202
PEMBERTON, R., D.S.C., A.R.I.B.A., 12, Layton Mount, Rawdon, Leeds	209
PENZOL, P., L.D., M.A., Asturis, Puerto de Vega, Spain	120
PEPPER, K. W., Ph.D., D.Sc., British Leather Manufacturers' Research Association, Milton Park, Egham, Surrey	90
PERKIN, L. C., 89, Shaftesbury Avenue, Leeds, 8	106
PERROTT, I. B., M.A., Kylemore, Billams Hill, Otley	122, 131, 133, 216
PETCH, C. S., 3, Parkstone Green, Leeds, 16	103
PETERS, A. T., Ph.D., D.Sc., A.Mus.T.C.L., 458, Stonegate Road, Leeds, 17	177
	126, 133
PETERS, L., B.Sc., M.Sc., Ph.D., 89, Victoria Road, Leeds, 6	126, 134
PETTIT, L. D., B.A., D.Phil., School of Chemistry, The University, Leeds, 2	125
	162
PHILLIPS, Mrs. DOROTHY UNA McGRIGOR, LL.D., 42, Ann Street, Edinburgh, 4	58, 72, 82
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	106
PHILLIPS, H. A., 1, St. Mark's Avenue, Leeds, 2	176
PHILPOTT, Miss M. E., 14, Weetwood Avenue, Leeds, 16	206
PHILSON, Miss P. M., 1, Shadwell Walk, Leeds, 17	
PICKERING, Mrs. A. M., B.A., James Graham College, Lawns House, Farnley, Leeds, 12	142
PICKERSGILL, Mrs. H., 86, Burlington Road, Leeds, 11	200
PICKLES, F., M.Sc., 83, Grange Road, Allerton, Bradford	120
PICKLES, Alderman Miss MARY, 54, Warley Road, Halifax	139
PICKUP, Mrs. H. H., Fairfield House, Bramham, Boston Spa	210
PIPER, Miss R. J. T., A.I.M.L.T., Flat 1, 103, Caledonian Road, Leeds, 2	184
PITHER, Miss LETTICE M., M.I.M.A., Oxley Hall, Leeds, 16	218
PITMAN, Miss W. P., 8, Raynville Grove, Leeds, 13	210
PITTARD, C. J., Messrs. C. W. Pittard and Co. Ltd., Sherbourne Road, Yeovil, Somerset	90
PLATT, C. P. S., B.A., Rosebourne House, Huby, Nr. Leeds	149
PLUMMER, H., 18, Castle Grove Avenue, Leeds, 6	211
POLLARD, A., B.Sc., A.R.I.C., A.M.I.Chem.E., 74, Gledhow Lane, Leeds, 8	173
	126, 135
POLSON, Professor C. J., M.D., F.R.C.P., M.R.C.S., Barrister-at-Law, 16, Tewit Well Road, Harrogate	86, 109, 129, 136, 215
PONTEFRAC, Mrs. M. A., 7, Crawshaw Gardens, Pudsey, Leeds	199
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POOLE, D. I., A.T.I., 1063, Grangefield Avenue, Thornbury, Bradford, 3	176
POPOT, Milc R., Lès L., Eilerslie Hall, Leeds, 2	147
POPPELWELL, D., B.Sc., Department of Food and Leather Science, The University, Leeds, 2	178
POSTILL, Mrs. S., 6, Lodge Lane, Beeston, Leeds, 11	202
POTTS, W. L. J., B.Sc., A.R.I.C.S., A.M.I.Min.E., 174, Nursery Lane, Leeds, 17	
	126, 134, 217
POUSAO, Miss S., Licda. em. Fil. e Let., Department of Spanish, The University, Leeds, 2	171
PRENDERGAST, Miss S., B.Sc., 48, Clarendon Road, Leeds, 2	149
PRESTON, Professor R. D., Ph.D., D.Sc., F.Inst.P., F.L.S., F.R.S., Berkstone, 233, Otley Road, Leeds, 16	82, 88, 109, 125, 133, 215
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PRICE, Miss B. M., B.Sc., Ph.D., 107, Becketts Park Crescent, Leeds, 6	186
PRICE, H. L., M.A., M.Sc., Ph.D., F.R.Ae.S., 11, West Park Place, Leeds, 8	125, 133 159
PRICE, Sir HENRY P., Bt., Wakehurst Place, Ardingley, Sussex	58
PRICE, P. STANLEY, M.A., Q.C., 37, Park Square, Leeds, 1	89
PRICHARD, W. J., M.Com., 23, Moor Drive, Leeds, 6	123, 138 202
PRIESTLEY, G. C., B.Sc., 29, St. Anne's Road, Leeds, 6	176
PRIESTLEY, GEORGE, M.A., Hazeldene, Mount Pleasant, Robin Hoods Bay	71, 120
PRIESTLEY, Mrs. J. H., 50, Hinton Way, Great Shelford, Cambridge	93
PRIESTLEY, Miss M., 29, Queenswood Drive, Leeds, 6	200
PRIESTMAN, G., M.B., Ch.B., 546, Toller Lane, Bradford	93
PRINCE, Miss M., B.Sc., 59, Victoria Road, Leeds, 6	182
PRINGLE, G. E., B.A., Ph.D., A.Inst.P., 1, Alder Hill Cottages, Stonegate Road, Leeds, 6	125, 135 162
PRIOR, A. G., M.A., 26, Sefton Avenue, Leeds, 11	88
PRITCHARD, F. C., M.A., Ph.D., Woodhouse Grove School, Apperley Bridge, Bradford	88
PROSSER, L. J., M.B., Ch.B., 39, Harlow Oval, Harrogate	93
PROUD, J. R., B.Sc., N.D.A., Headley Hall Farm, near Tadcaster	126 178
PULLAN, B. R., B.Sc., 5, Haigh Wood Green, Leeds, 16	161
PYBUS, A. E., L.R.A.M., 15, William Rise, Leeds, 15	119
PYRAH, Professor L. N., M.Sc., Ch.M., F.R.C.S., 29, Park Square, Leeds, 1	73, 109, 129, 136 192
QUICK, P., B.A., 67, Cookridge Drive, Leeds, 16	209
RABAGLIATI, C. I., B.Sc., M.I.Mech.E., Clare House, Scotland Lane, Horsforth Leeds.	170
RADFORD, Miss JEAN B. D., 36, Hollin Lane, Leeds, 16	180
RADFORD, W. G., A.I.S.T., 34, Gledhow Wood Avenue, Leeds, 8	170
RAINIE, G. F., M.A., 9, St. Michael's Crescent, Leeds, 6	105, 123, 132 155
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RAMSEY, Alderman B., C.B.E., 27, Thornfield Road, Linthorpe, Middlesbrough	60, 66
RANDALL, Councillor W., 33, Orwell Street, Middlesbrough	139
RAPER, Miss D., Woodland View, Bramham Road, Clifford, Boston Spa	150
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RAPER, F. P., M.B., Ch.B., F.R.C.S., Eastfield, Dib Lane, Leeds, 8	129, 136 192
RAPER, G. F., M.A., Storrs Gate, Bowness, Windermere	175
RATTENBURY, The Rev. H. M., M.A., Wesley College, Leeds, 6	106, 122 151
RAVETZ, J. R., B.A., Ph.D., 68, Chapel Lane, Leeds, 6	125, 140 150
RAWSON, Mrs. J. A., M.A., Department of Italian, The University, Leeds, 2	148
RAYBOULD, Professor S. G., B.Sc.(Econ.), Ph.D., 49, Kent Road, Harrogate	88, 109, 122, 131, 138, 213, 214, 217 201
RAYNER, Miss DOROTHY H., M.A., Ph.D., 16, Moor Park Drive, Leeds, 6	125, 133, 215, 217 166
READ, D., B.Litt., M.A., Ph.D., 103, Tinsill Road, Cookridge, Leeds, 16	122 149
READ, D. A., B.Sc., Ph.D., 38, Morris Lane, Kirkstall, Leeds, 5	125 161
READ, Miss E. M., B.A., A.L.A., 13, Burton Crescent, Leeds, 6	203
READ, Sir HERBERT, Kt., D.S.O., M.C., Litt.D., M.A., Stonegrave House, Stonegrave, York	84

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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		111	
READ, W. J., 15, Carberry Avenue, Southbourne, Bournemouth		58	
REAKS, G., M.A., British Leather Federation, 9, St. Thomas Street, London, S.E.1		90	
REDMAN, T. F., T.D., M.B., Ch.B., F.R.C.S.E., F.R.C.O.G., 29, Park Square, Leeds, 1			194
REDSHAW, Professor S. C., University of Birmingham		222	
REED, G. W., M.Sc., 23, Temple Gate, Leeds, 15		129	194
REED, K., 13, Blackman Court, Pontefract			211
REED, Mrs. P., Department of Experimental Pathology and Cancer Research, The University, Leeds, 2			187
REED, R., M.Sc., Ph.D., 3, Woodhall Park Avenue, Stanningley, Leeds			
	126, 134		177
REES, W. J., B.A., M.A., 20, Bracken Edge, Leeds, 8	122, 132, 135		150
REEVES, C. M., M.A., Ph.D., 35, Kingsley Avenue, Leeds, 16	125		160
RENNIE, Miss J. M. M., M.A., Underwood Grange, Rawdon, Leeds			209
REUBEN, Miss S. J., 54, Carr Manor Road, Leeds, 17			210
REX, J. A., B.A., Ph.D., Department of Social Studies, The University, Leeds, 2	123, 132, 139		156
RHODES, Miss L., University House, University Road, Leeds, 2			212
RHODES, P., B.Sc., Ph.D., A.Inst.P., 244, Harrogate Road, Leeds, 7			
	60, 125, 134		161
RICH, R. W., M.A., Ph.D., City of Leeds Training College, Beckett Park, Leeds, 6	88, 142		
RICHARDS, G. O., M.A., Mus.B., F.R.C.O., Oakdene, Newlay Wood Drive, Horsforth, Leeds			199
RICHARDS, J. W. T., B.A., Department of Psychology, The University, Leeds, 2	125		168
RICHARDSON, A., B.Sc., A.M.I.E.E., A.M.Brit.I.R.E., Flat 2, 33, Shire Oak Road, Leeds, 6	126, 133		171
RICHARDSON, Emeritus Professor J. H., M.A., Ph.D., 7, Otley Road, Harrogate	111		
RICHARDSON, J. R., B.Sc., Ph.D., M.I.R.E., Department of Electrical Engineering, The University, Leeds, 2	127		171
RICHARDSON, NIGEL W., M.C., T.D., J.P., F.R.I.C.S., F.A.I., 3, Park Place, Leeds, 1	62, 64, 67, 71, 76, 81, 86, 97, 101, 102		
RICHARDSON, Miss P. J., 63, North Avenue, Otley			210
RICKETTS, T. R., B.Sc., 2, Grosvenor Terrace, Leeds, 6			184
RIDER, S., 60, Mexborough Drive, Leeds, 7			169
RIDSDALE, Miss B. D., 43, Clarendon Road, Leeds, 2			187
RIGBY, W., B.Sc., Ph.D., Ph.C., 28, Parklands Gate, Bramhope, Leeds	125, 134		165
RINGROSE, P., M.A., LL.B., c/o. Messrs. Lupton & Fawcett, 26, Bond Street, Leeds, 1	85		
RINGSLEBEN, Miss M. R. E., B.A., Ph.D., Flat 4, 35, Richmond Road, Leeds, 6			209
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			172
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ROBERTS, E. W., B.Sc., Houldsworth School of Applied Science, The University, Leeds, 2			173
ROBERTS, G. J., B.Sc., A.R.I.C., A.I.Ceram., Houldsworth School of Applied Science, The University, Leeds, 2			173
ROBERTS, J. M., M.D., D.P.M., 21, Fearnville Place, Leeds, 8	129, 137		190

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ROBERTSON, D. M., B.Sc., Ph.D., A.R.I.C., 1, High Street, Starbeck, Harrogate	184
ROBERTSON, G. H., University of Edinburgh	221
ROBERTSON, J. H., B.Sc., Ph.D., A.R.I.C., 38, Headingley Lane, Leeds, 6	125, 135 162
ROBERTSON, Professor J. M., University of Glasgow	222
ROBERTSON, Miss R., 20, Crescent Gardens, Leeds, 17	204
ROBINSON, Miss C., Dargai Street, Leeds, 7	205
ROBINSON, Mrs. EDITH, B.Sc., Ph.D., 6B, Bainbrigge Road, Leeds, 6	125, 135, 216 166
ROBINSON, H., 88, Scott Hall Road, Leeds, 7	169
ROBINSON, K., 15, Wellington Grove, Leeds, 13	212
ROBINSON, S. D., B.Sc., School of Chemistry, The University, Leeds, 2	163
ROBshaw, Miss W., 102, Whinney Moor Avenue, Lupset, Wakefield	204
ROBSON, Miss W. F., M.A., 143, Gledhow Valley Road, Leeds, 7	119
ROCHE, J. W., The Grammar School, Barnsley	62
ROGERS, E., B.A., 9, Brooklands Terrace, Skipton, Yorks.	139
ROGERS, H. C., B.A., Glenaire, Raikes Wood, Skipton, Yorks.	139
ROOK, Dr. A., 12, Brook Street, Cambridge	223
ROOKE, Miss J. M., B.Sc., A.Inst.P., 3, Meadow End, Bramhope, Leeds	167
ROSE, G. A., D.M., M.A., A.R.I.C., 6, Moor Allerton Gardens, Leeds, 17	129 187 198
ROSE, H. E., B.Sc., 79, Outwood Lane, Horsforth, near Leeds	125 160
ROSE, Mrs. V. C., Leacroft, 11, The Fairway, Leeds, 17	200
ROSE, W. H., M.Sc., M.I.C.E.I., M.I.Struct.E., F.G.S., Messrs. G. & T. Earle, Ltd., Wilmington, Hull	169
ROSS, Miss D., 29, Park Lane, Leeds, 8	204
ROSS, J. H., B.Ch.D., L.D.S., 9a, The Poplars, Bramhope, Leeds	198
ROSLINGTON, Miss J. E., East Moor, East Moor Drive, Leeds, 8	146
ROSSINGTON, Miss V., 15, Servia Place, Leeds, 7	205
ROTH, Professor M., Kings College, University of Durham	223
ROTHERY, P., 45, Cliff Road, Leeds, 6	160
ROTHSTEIN, E., Ph.D., D.Sc., A.R.C.S., 107, West End Avenue, Harrogate	125, 133 164
ROTHWELL, W., M.A., Doc. de l'Université de Paris, 179, Stonegate Road, Leeds, 6	122, 132 147
ROWE, K. R., M.A., 25, The Drive, Alwoodley, Leeds, 17	122, 132 145
ROWE, R., M.A., A.M.A., Temple Newsam House, Leeds	71
ROWLAND-JONES, A., M.A., 66, Henconner Lane, Leeds, 7	209
ROYSTON, Miss P., B.A., M.Ed., Ilkley College of Housecraft, Ilkley	88
RUDALL, K. M., M.Sc., Ph.D., D.Sc., 14, Farrar Lane, Leeds, 16	125, 133 167 181
RUMFITT, A., F.I.M.L.T., A.I.S.T., 55, Ridgeway, Leeds, 8	184
RUMSEY, J. C. V., B.Sc., 30, Norwood Terrace, Leeds, 6	173
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	95
RUSE, Professor H. S., M.A., D.Sc., F.R.S.E., The University, Leeds, 2	78, 104, 105, 106, 109, 125, 131, 133, 215 159
RUSSELL, The Rev. Principal D. S., B.D., B.Litt., M.A., Rawdon College, Rawdon, Leeds	122, 132 152
RYDER, Professor E. C., University of London	221
SAGAR, Miss L. A., Rose Mount, Leeds Road, Hipperholme, Halifax	210
SAHOTA, S. S., M.Sc., Ph.D., School of Chemistry, The University, Leeds, 2	162

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ST. EDMUNDSBURY AND IPSWICH, The Rt. Rev. the Lord Bishop of, M.A., LL.B., D.D., Bishop's House, Ipswich	95
SALMON, G. A., B.Sc., Ph.D., School of Chemistry, The University, Leeds, 2	164
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SALT, Miss P. A., 5, Lidgett Park Avenue, Leeds, 8	210
SALTER, H., F.I.S.T., 30, Cliff Mount, Leeds, 6	77, 103 182
SALVAGE, B. F., B.Sc.(Eng.), Ph.D., M.I.E.E., 10, Wetherby Road, Leeds, 8	127, 134 171
SAMPSON, The Rev. Canon C. B., Q.H.C., M.A., 11, The Crescent, Ripon	57
SANDERSON, S. F., M.A., 433, Harrogate Road, Leeds, 17	122, 132, 214 146
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SANDYS, Lt.-Col. C. G., O.T.C., The University, Leeds, 2	212
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SARGAN, J. D., M.A., 6, Moor Park Drive, Leeds, 6	123, 131 155
SARJANT, Emeritus Professor R. J., O.B.E., D.Sc., F.Inst.F., 80, Totley Brook Road, Totley Rise, Sheffield	75 173
SARJEANT, Captain L. J., The Dower House, Wheatley Lane, Ben Rhydding, Ilkley	79
SATTERTHWAITE, Miss M., M.Sc., 68, Cliff Road, Leeds, 6	184
SAUNDERS, J. W., B.Litt., M.A., 91, Cambridge Road, Linthorpe, Middlesbrough	122, 138, 216, 217 201
SAUNDERS, M., B.Ch.D., L.D.S., F.D.S.R.C.S.E., 128, Street Lane, Leeds, 8	129 197
SAWYER, Miss M., 57, Raynel Drive, Leeds, 16	161
SAXTON, J. E., M.A., B.Sc., D.Phil., 30, Parklands, Bramhope, Leeds	125, 135 164
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
SCARR, F., 19, Lingfield Drive, Leeds, 17	196
SCHOFIELD, Miss M., Dip.Phys.Ed., Oxley Hall, Leeds, 16	125 206
SCHOFIELD, P. J., B.A., M.A., LL.B., 20, Monkbridge Road, Leeds, 6	123 158
SCHOLTZ, J., 7, Graveleythorpe Road, Leeds, 15	127, 134 178
SCOTT, Mrs. E., Graham House, 124, Redhill Drive, Airedale, Castleford	199
SCOTT, J. R., 7, Chatsworth Road, Leeds, 8	166
SCOTT, Professor J. S., M.D., F.R.C.S.E., M.R.C.O.G., Department of Obstetrics and Gynaecology, The University, Leeds, 2	76, 86, 109, 129, 137 193
SCOTT, Miss L. I., M.Sc., F.L.S., 96, West Coker Road, Yeovil, Somerset	119 187
SCOTT, R. A. MURRAY, M.A., M.D., 14, Belvedere Avenue, Leeds, 17	129, 137 182
SCOTT, T. A., B.Sc., Ph.D., Department of Biochemistry, The University, Leeds, 2	129 173
SCOTT, W. D., B.S., M.S., Ph.D., 165, Hyde Park Road, Leeds, 6	165
SCROWSTON, R. M., B.Sc., 32, Church Avenue, Leeds, 6	62, 65, 80
SCRUTON, Alderman R., J.P., The Croft, Grange Garth, York	80, 138, 139, 140
SEDGWICK, G. F., Blenheim Institute, Blackman Lane, Leeds, 2	125 167
SEEDS, W. E., B.A., B.Sc., Ph.D., Department of Biomolecular Structure, The University, Leeds, 2	125 167
SELBY, D. R., A.T.D., Leeds College of Art, Vernon Street, Leeds, 2	142
SELBY, Miss G. V. M., Netherscar, Chapel-le-Dale, via Carnforth, Lancs.	119 210
SENIOR, Miss M., 151, Broadway, Horsforth, Leeds	210
SEYMOUR, E. F. W., M.A., D.Phil., A.Inst.P., 26, Carr Manor Road, Leeds, 17	125, 134 161
	176
SHACKLETON, Miss V., 186, Park Road, Guiseley, Leeds	204
SHANKS, P. L., Veterinary Laboratories, Mill of Craibstone, Bucksburn, Aberdeen	222
SHAPLEY, C. S., O.B.E., M.I.Mech.E., M.Inst.Gas E., Roman Way, Alwoodley Lane, Leeds, 17	75

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SHARP, J. A., M.B., Ch.B., Ph.D., 11, Cumberland Road, Leeds, 6 60, 129, 137	181
SHARP, Miss M., 20, Park Avenue, Outwood, Wakefield	210
SHARPER, Miss L. HELEN, Flat 10, 19, Cromer Terrace, Leeds, 2	180
SHAW, B. L., B.Sc., D.Phil., School of Chemistry, The University, Leeds, 2	125 162
SHAW, D. L., M.B., Ch.B., F.R.C.S., Havelock House, Hook Road, Goole	125 215
SHAW, Councillor C., M.Sc., Ph.D., 1, Lumb Lane, Almondbury, Huddersfield	88
SHAW, G. A., 33, Temple Rhydding Drive, Baildon, Shipley	166
SHAW, Mrs. I. B., J.P., Grey Willows, Huntington, York	95
SHAW, R., B.A., 34, Farfield Road, Shipley	122, 138, 139 201
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	83
SHAW, W. M. H., B.Sc., M.B., Ch.B., F.R.C.S., High Trees, 1, Southway, Brownberrie Lane, Horsforth, Leeds	129 191
SHEARD, P. M., B.A., F.C.A., 11, Stanley Drive, Leeds, 7	123, 131, 214, 219 155
SHELDRIK, B., B.Sc., 17, Nethercliffe Crescent, Guiseley, Leeds	163
SHEPPARD, Mrs. M. R., 49, Westfield Road, Leeds, 3	210
SHEVADE, V. S., B.Sc., 33, Cromer Terrace, Leeds, 2	177
SHETTY, C. M., B.Sc.(Eng.), M.Sc., Ph.D., Department of Economics, The University, Leeds, 2	123 156
SHIEL, F. A. O'M., M.B., B.Ch., B.A.O., B.Sc., 9, Old Park Road, Leeds, 8	129 183
SHILTON, R., B.Sc.(Eng.), A.M.I.Mech.E., M.I.Prod.E., Fairholme, Thornfield Road, Lockwood, Huddersfield	127, 133 170
SHIRT, Miss M. A., M.A., Ellerslie Hall, Leeds, 2	122 153
SHONE, J. A. V., L.M.S.S.A., L.R.C.P., M.R.C.S., The Fair Havens, Creskeld Lane, Bramhope, Leeds	183
SHORROCKS, Mrs. L., 62, Otley Old Road, Leeds, 16	148
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	129, 137 191
SHUTTLEWORTH, R., B.Sc., Ph.D., 7, Monkbridge Road, Leeds, 6	127 174
SIDDLE, F. J., B.Sc., Ph.D., 14, Warwick Crescent, St. James Park, Harrogate	100
SIDE, H. J. A., B.A., 5a, Woodhouse Cliff, Leeds, 6	176
SIGSWORTH, E. M., B.A., Ph.D., Church Hill, Thorner, Leeds	123 155
SKORSKI, J., Dipl.Ing., M.Sc., Ph.D., A.Inst.P., 37, Moor Park Villas, Leeds, 6	127 176
SILCOX, Miss L. A., Royd, Arnside, via Carnforth, Lancs.	119
SILK, F. F., M.B., Ch.B., M.Ch.Orth., F.R.C.S.E., The General Infirmary, Leeds, 1	129 192
SIMPSON, Mrs. H., 10, Eldon Terrace, Leeds, 2	160
SIMPSON, HUGH B., M.A., 41, Park Square, Leeds, 1 63, 64, 67, 69, 83, 104	127 180
SIMPSON, I. G., M.Sc., 91, Victoria Road, Leeds, 6	127 180
SIMPSON, Mrs. MORAG C., B.Sc.(Econ.), M.Sc.(Agric.), 91, Victoria Road, Leeds, 6	127 180
SINGLETON, F. B., M.A., 4, Grove Court, Grove Road, Pudsey, near Leeds	139
SISSONS, Miss EDNA, B.Sc., 75, Becketts Park Crescent, Leeds, 6	144
SKINNERS COMPANY, MASTER OF (John F. E. Goad, O.B.E.), 8, Dowgate Hill, London, E.C.4	59, 90
SLATER, N. B., M.A., Ph.D., F.R.S.E., 3, Grosvenor Terrace, Leeds, 6	139
SLAUGHTER, C., B.A., 30, Cross Green Lane, Leeds, 15	123 156
SLEDGE, W. A., B.Sc., Ph.D., 9, St. Chad's Drive, Leeds, 6 60, 125, 133, 218	166
SLEDGE, Mrs. W. A., B.A., 9, St. Chad's Drive, Leeds, 6	98, 105, 106 205
SLIM, Field Marshal The Rt. Hon. Viscount, K.G., G.B.E., K.C.B., D.S.O., LL.D., The Clothworkers' Company, Clothworkers' Hall, Dunster Court, Mincing Lane, London, E.C.3	59
SMART, J. D., B.A., Department of Greek, The University, Leeds, 2	122 145

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SMIDDY, F. G., Ch.M., F.R.C.S., 26, Sutherland Avenue, Leeds, 8	129		191
SMITH, Miss A., 33, Carr Manor View, Leeds, 17			210
SMITH, A. D. M., B.Sc., M.B., B.Ch., M.R.C.P., Department of Medicine, The University, Leeds, 2			188
SMITH, Miss A. F., 65, Newlay Lane, Whitecote, Leeds, 13			202
SMITH, A. G., A.R.C.S., B.Sc., D.I.C., A.F.R.Ac.S., Blackburn & General Aircraft Co., Brough, E. Yorks.		78	
SMITH, C. C., M.A., Ph.D., 45, Moor Park Villas, Leeds, 6	60, 122		149
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	129		193
SMITH, Miss E., 1, The Avenue, Leeds, 15			191
SMITH, Miss G., Yorkshire Training College of Housecraft, Vernon Road, Leeds, 1	88, 142		
SMITH, G. F., Ph.D., Beechwood, Collingham, Wetherby, Yorks.	125, 133, 137		163
SMITH, Mrs. G., Department of Medical Physics, The University, Leeds, 2			195
SMITH, Colonel Sir HAROLD, K.B.E., D.L., J.P., LL.D., M.I.C.E., Hon.M.Inst.Gas E., Cowslade Farm, Hartley Wintney, Hampshire	75		
SMITH, H. J., B.Sc., 26, Clarendon Place, Leeds, 2			186
SMITH, County Alderman Mrs. J., Wood View, Manchester Road, Marsden, Huddersfield	59, 88, 93		
SMITH, J. A. S., M.A., D.Phil., 146, Otley Road, Leeds, 6	125		162
SMITH, County Alderman J. FULLER, J.P., 28, Carr Road, Calverley, near Leeds	63, 65		
SMITH, J. G. F., B.Sc., 37, Hartley Crescent, Leeds, 6			163
SMITH, Mrs. KATHLEEN, 26, Oakwood Walk, Leeds, 8			196
SMITH, Miss M. METCALFE, M.A., N.F.F., Dipl. Psych., 19, Cardigan Road, Leeds, 6	122, 142, 214		199
SMITH, P. A., B.Sc., Ph.D., A.T.I., 21, Long Meadows, Bramhope, Leeds	127		175
SMITH, R. A., 34, Hollin Park Road, Leeds, 8			211
SMITH, R. O., B.Sc., Department of Agriculture, The University, Leeds, 2			179
SMITHIES, D., B.Sc., Ph.D., Flat 2, 1, West Hill Terrace, Leeds, 7	125, 135		163
SNAPE, Miss B., Queen Margaret's School, York			61
SNOWBALL, Miss M., 27, High Street, Cleckheaton	139		
SNOWBALL, S., F.S.A.A., F.T.I.I., 9, Farrar Lane, Leeds, 16			155
SNOWDEN, D. C., M.Sc., F.T.I., Cruachan, 27, Gainsborough Avenue, Leeds, 16	127, 133, 218		175
SOBEY, Colonel F. T., O.B.E., M.C., Messrs. E. Wadsworth & Son, Ltd., Broomfield Mills, Cleckheaton	100		
SOLLITT, E., 34, Ash Road, Leeds, 6			168
SOUTHAM, F. L., L.D.S., 309, Harrogate Road, Leeds, 17			198
SPALDING, A., B.A., Director of Education, Town Hall, Bradford	60, 88, 141		
SPAUL, Emeritus Professor E. A., Ph.D., D.Sc., 14, Weetwood Road, Leeds, 16	91, 111		
SPEAKMAN, Professor J. B., D.Sc., F.R.I.C., F.T.I.(Hon.), 181, Otley Road, Leeds, 6	64, 80, 81, 90, 97, 99, 109, 127, 131, 133, 218, 219, 220		175
SPEAKMAN, P. T., M.A., D.Phil., 181, Otley Road, Leeds, 6	127		176
SPEDDING, Miss K., Gomersal Hall, near Leeds	103		210
SPEIGHT, H., B.A., 43, Low Lane, Durkar, Wakefield	123, 215, 216, 220		155
SPENCER, Mrs. M., M.F.T.Com., 20, The Fairway, Bradford Road, Pudsey			185
SPENCER-PREET, J., M.B., B.S., 41, King George Avenue, Leeds, 7	129		184
SPICER, A., B.A., L. ès L., 72, Rawdon Road, Horsforth, Leeds	122		153
SPIERS, Professor F. W., Ph.D., D.Sc., Lanesfield House, Old Lane, Bramhope	73, 86, 109, 129, 137, 218		194
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SPILLINGS, Miss B. C., 13, Moorland Crescent, Guiseley, Leeds			167
SPONG, A. H., M.Sc., Ph.D., School of Chemistry, The University, Leeds, 2			163

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STAGG, K. G., B.Sc., 29, Vernon Road, Leeds, 1		172
STAINTHORPE, E. S., 42, Hill Court Drive, Leeds, 13		182
STAINSBY, G., M.A., Ph.D., F.R.I.C., 29, Gainsborough Avenue, Adel, Leeds, 16	127, 135	177
STANSFIELD, H., M.Sc., A.M.I.Mech.E., Laurel Dene, 10, Henley Drive, Rawdon, Leeds	127, 217	170
STANSFIELD, Mrs. J., 33, Beechwood Avenue, Bradford, 6	88	
STANSFIELD, Miss M. P., School of Dentistry, Leeds, 2		198
STANSFIELD, W. S., F.T.I., High Trees, Wyke, Bradford	100	
STEAD, Miss AUDREY C., 4, Hillingdon Way, Leeds, 17	146	
STEAD, P., Messrs. C. F. Stead and Co., Ltd., Sheepscar Leather Works, Leeds, 7	90	
STEIN, W., B.A., Brooklyn, Parish Ghyll Road, Ilkley	122, 138	201
STEPHENSON, F., B.A., City of Leeds Training College, Beckett Park, Leeds, 6	142	
STEPHENSON, J. M., B.Sc., G.I.E.E., 7B, Alma Road, Leeds, 6	127	171
STEPHENSON, T. E., B.A., 10, North Hill Court, Leeds, 6	122, 138	201
STEVENS, C. B., B.Sc., Ph.D., F.S.D.C., 11, Wynford Mount, Leeds, 16	127, 135	177
STEVENS, Miss FRANCES M., B.A., 8, Moor Park Avenue, Leeds, 6	122, 142, 214, 216	199
STEVENS, Miss J., 8, Butts Place, Leeds, 12		210
STEVENS, R., 58, Poole Crescent, Leeds, 15		170
STEVENS, R. T. H., M.A., M.Litt., Hollin House, Station Road, Upper Poppleton, York	122	152
STEVENSON, Alderman Mrs. GERTRUDE A., C.B.E., 2, Stainburn Terrace, Leeds, 17	63, 65	165
STEWART, J. A., 360, Whitehall Road, Leeds, 12		
STEWART, T. MORTON, M.D., 25, Albion Street, Hull	93	
STICKLAND, L. H., M.A., Ph.D., 8, Wedgwood Grove, Leeds, 8	129, 137	186
STILL, R. J., M.A., M.B., B.Chir., D.Obst.R.C.O.G., 27a, Cumberland Road, Leeds, 6	94, 103, 105, 106, 110, 129, 137	195
STIRLING, Mrs. A. C., Edinburgh School of Agriculture, West Main Road, Edinburgh, 9	222	205
STOCKDALE, E., 222, Moore Avenue, Bradford	139	
STONE, B. D., B.Sc., M.Sc., A.R.I.C., 17, Blenheim Road, Bradford, 8		176
STONER, Professor E. C., B.A., Sc.D., F.Inst.P., F.R.S., Penylan, 10, Winston Mount, Leeds, 6	69, 78, 100, 109, 125, 134, 137, 220	160
STRAIN, Mrs. J. M., 25, West End Lane, Horsforth, Leeds		184
STREET, G. B., B.Sc., Lyddon Hall, Virginia Road, Leeds, 2		174
		207
STREETER, Mrs. D. J., B.Sc., School of Medicine, Leeds, 2		186
STREVS, Professor P. D., B.A., 26, West Park Crescent, Leeds, 2	105, 109, 122, 131	146
STROTHER, Miss MARJORIE, Beechcroft, Crabtree Hill, Collingham, Wetherby, Yorks.		199
STUART, W. S., M.Eng., A.M.I.E.E., Wordsley Manor Park, Burley-in-Wharfedale	119	
SUMMERSCALES, Miss J. W., M.Sc., 3, Hill Rise Grove, Leeds, 13		184
SUTCLIFFE, F. K., M.Sc., Ph.D., Kilnhurst Cottage, Kilnhurst, Todmorden	127, 134	177
SUTCLIFFE, P., B.Sc.(Tech.), A.M.I.C.E., A.M.I.P.H.E., 46, Cardigan Road, Leeds, 6	127, 135	169
SUTHERLAND, Mrs. L., B.Sc., Department of Cancer Research, The University, Leeds, 2		186
SUTHERLAND, R., M.D., D.P.H., 49, Harlow Moor Drive, Harrogate	98, 129, 137	195
SUTHERLAND, T. W., M.D., Woodleigh, 70, Batley Road, Alverthorpe, Wakefield	129, 137	183

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SWALES, R., 9, Low Moor Side, Leeds, 11			175
SWALLOW, A. G., A.R.I.C., 9, Springfield Mount, Leeds, 2			163
SWANN, D. A., B.Sc., M.S., Tudor House, Oakwood Grove, Leeds, 8	127		179
SWINBURNE, K., M.A., M.B., B.Chir., Lower Willow Hall, Sowerby Bridge			188
SWINBURNE, R. G., M.A., B.Phil., Department of Philosophy, The University, Leeds, 2			150
SYKES, A. G., B.Sc., Ph.D., School of Chemistry, The University, Leeds, 2			125
			162
SYKES, J. G., B.Ch.D., F.D.S.R.C.S., St. Mary's House, Bootham, York	129		197
SYKES, Canon J. R., Cairduna, Halifax Road, Brighouse			88
SYKES, Alderman Miss M. E., B.A., LL.B., J.P., 24, Britannia Buildings, St. Peter's Street, Huddersfield			93
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			119
SYMONS, ALAN V., Wings Cottage, Kemerton, nr. Tewkesbury, Glos.			58
SYMONS, Emeritus Professor H. W., M.B., Ch.B., F.R.C.S., 4, Headingley Terrace, Leeds, 6			111
TALLANT, A., 173a, Beeston Road, Leeds, 11	80,	139	
TANNER, L. H., B.A., 8, Otley Old Road, Leeds, 16			127
			170
TATE, W. E., B.Litt., F.S.A., 23, Cliff Road Gardens, Leeds, 6	122,	131	152
TATE, W. K., M.A., M.I.C.E., M.Inst.Gas E., Gothic Works, Padiham			75
TATTERSALL, Mrs. JOAN M., M.B., Ch.B., Oakleigh, 6, Wood Lane, Leeds, 6			205
TATTERSALL, R. N., O.B.E., M.D., F.R.C.P., Oakleigh, 6, Wood Lane, Leeds, 6			129, 137
			187
TAVERNER, D., M.B.E., M.D., F.R.C.P., Springfield Cottage, Gomersal, Leeds			129, 137
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TAYLOR, Professor ARTHUR J., M.A., Redgarth, Leeds Road, Collingham, near Wetherby	109,	122, 131	149
TAYLOR, A. L., M.D., D.P.H., L.D.S., 8, Rayleigh Road, Harrogate			195
TAYLOR, A. R., M.A., 1, Birchwood Mount, Leeds, 17	122,	131	147
TAYLOR, County Alderman EZRA, M.B.E., J.P., Acacia, Lumby Street, Whitwood Mere, Castleford			59, 88
TAYLOR, E., R.E., A.R.C.A., Leeds College of Art, Leeds, 2	70,	88,	142
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			88, 142
TAYLOR, G. R. T., Allerton Hill, Windlesham, Surrey			58
TAYLOR, J., M.A., Storey Cottage, Kirkby Overblow, near Harrogate	122		149
TAYLOR, L., 11, Virginia Road, Leeds, 2			211
TAYLOR, N., 45, Eastville Terrace, Harrogate			211
TAYLOR, Miss P. A., 38, Whiteley Street, Leeds, 12			196
TAYLOR, S. F., King's College Hospital, London, S.E.5			223
TAYLOR, W., M.A., Education Department, Calverley Street, Leeds, 1			142
TEASDALE, G. E., 3, Grosvenor Mount, Leeds, 6			180
TEEMAN, R., LL.M., 4, Albion Street, Leeds, 1			158
TELLING, O. M., M.A., D.M., F.R.C.P., 29, Park Square, Leeds, 1	129,	137	187
TEMPEST, R. K., M.Sc., Ph.D., 36, Fearnville View, Leeds, 8	125,	135	159
TENNENT, R. M., B.Sc., Ph.D., D.I.C., 29, St. Chad's Avenue, Leeds, 6			161
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, 69-87, 89-106,	139, 141
THACKERAY, Miss S. A., El-Fasqiya, Wyncroft Grove, Bramhope, Leeds			196
THACKRAY, County Alderman C., B.A., 18, North Street, Heckmondwike	61		
THACKRAY, Mrs. E., 168, Tinsill Mount, Leeds, 16			165

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THACKRAY, HAROLD E., M.A., J.P., Messrs. Herbert Denison & Thackray, Perimanent House, The Headrow, Leeds, 1	59, 89	
THEAKER, W. S., LL.B., J.P., Messrs. Craven, Clegg & Theaker, 6, East Parade, Leeds, 1	89	
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		194
THOMAS, Mrs. GRETTA M., M.D., 469, Street Lane, Leeds, 17	144	186
THOMAS, TERRY, M.A., Ph.D., LL.D., J.P., 25, Shire Oak Road, Leeds, 6	95	
THOMPSON, B. J., B.Sc.(Tech.), Ph.D., A.M.C.T., A.Inst.P., 603, Scott Hall Road, Leeds, 7	125	161
THOMPSON, E. P., B.A., Holly Bank, Whitegate, Siddal, Halifax 122, 138, 139		201
THOMPSON, Mrs. E. P., Holly Bank, Whitegate, Siddal, Halifax		216
THOMPSON, G. L., M.B., B.Chir., F.R.C.S.E., Ashtrees, Hutton-le-Hole, York		216
THOMPSON, H., M.D., 6, Edgbaston Walk, Leeds, 17	129	183
THOMPSON, Mrs. H., L.ès L., 12A, Monkbridge Road, Leeds, 6		147
THOMPSON, I. B., B.A., M.A., Devonshire Hall, Cumberland Road, Leeds, 6	122	150
THOMPSON, W. B., B.A., Woodlands, Otley, Yorks. 122, 132, 213, 215, 219		152
THOMSON, R. L., M.A., B.Litt., 25, Castle View, Stonegate Road, Leeds, 17	122	147
THORNBURN, P. C., B.Sc., 2, Carr Manor Avenue, Leeds, 7		212
THORNHAM, C. B., B.Ch.D., L.D.S., 5, Weetwood Avenue, Leeds, 16	129	197
THORNTON, Mrs. A., 28, Woodland Drive, Pledwick, Wakefield	139	
THORP, Miss M. G., 1, Whinbrook Grove, Leeds, 17		210
THORPE, J. R., 113, Barkley Road, Leeds, 11		161
THYNNE, J., B.Sc., Ph.D., 14, Blandford Gardens, Leeds, 2		164 208
THYSS, Mlle. M-L., L. ès L., Dip.E.H.E.C., Agrégée de l'Université, Flat 3, 16, North Grange Road, Leeds, 6	122, 132	147
TODD, Mrs. E. M., The Terrace, Pateley Bridge, Harrogate	215	
TOLSON, Alderman J. E., J.P., 52, Bywell Road, Dewsbury	88, 141	
TONER, W. H., 52, Springfield Place, Leeds, 2		204
TOOTHILL, C., B.Sc., Ph.D., 18, Springfield Mount, Leeds, 2	129	184
TOPHAM, K., 35, Carrholm Road, Leeds, 7		168
TOPPING, J. F., M.A., M.Com., Huddersfield Training College, Huddersfield	142	
TOWERS, J. R. H., M.A., M.D., F.R.C.P., 42, Park Square, Leeds, 1	95, 129, 137	187
TOWERS, K. G., B.V.Sc., M.R.C.V.S., Britannia House, Albion Street, Clifford, Boston Spa	127, 134	180
TOWN, A. W., M.A., 42, Westminster Crescent, Burn Bridge, Harrogate		205
TOWNEND, P. P., B.Sc., Ph.D., F.T.I., Milford, Tredgold Avenue, Bramhope, Leeds	127, 134, 144	175
TOWNSEND, Miss L. M., 41, Station Road, Scholes, Nr. Leeds	103	
TOWNSEND, W. N., B.Sc., Court Ash, Woodacres Crescent, Bardsey, Leeds	127, 134	179
TRENAMAN, J., B.Litt., D.Phil., 181, Wetherby Road, Leeds, 17		157
TREWICK, Miss M., M.A., Flat B, 3, Grosvenor Road, Leeds, 6		153
TRICKETT, W. H., M.Sc., 9, Woodbine Terrace, Leeds, 6	125, 134, 144, 215	159
TRIM, J. L. M., 4, Lansdowne Road, Cambridge		221
TRIPPE, S., B.A., Ph.D., The Bungalow, The Drive, Bardsey, Leeds	125, 134	164
TROUGHTON, Miss C. M., 7, Whinfield, Leeds, 16		210
TRUTER, E. V., B.Sc., Ph.D., A.R.C.S., D.I.C., Flat 3, 9, Cavendish Road, Leeds, 2	127, 134	176
TRUTER, Mrs. M. R., B.Sc., Ph.D., A.R.C.S., Flat 3, 9, Cavendish Road, Leeds, 2	77, 103, 125, 134	162
TUCKER, P. E., B.Litt., M.A., A.L.A., 9, St. Michael's Villas, Cardigan Road, Leeds, 6		199 203

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NAMES AND ADDRESSES

	Staff List
TUDBALL, F. C., The Turner Tanning Machinery Co. Ltd., Bramley, Leeds, 13	90
TUNBRIDGE, Professor R. E., O.B.E., M.Sc., M.D., F.R.C.P., J.P., The Gables, 5, Grove Lane, Leeds, 6	187
TUNBRIDGE, Mrs. R. E., M.Sc., The Gables, 5, Grove Lane, Leeds, 6	61, 143, 214
TUPPER, H. G., B.A., 33, Lyddon Terrace, Leeds, 2	203
TURLEY, A. E., 3, Vicar's Road, Leeds, 8	176
TURNBULL, DONALD, LL.M., Messrs. Scott, Turnbull & Kendall, Bar Chambers, 105, Albion Street, Leeds, 1	89
TURNBULL, Colonel L., M.C., T.D., J.P., 3, Scarcroft Grange, Scarcroft, Leeds	91
TURNBULL, Miss M. M., B.Sc., 5, Spring Road, Leeds, 6	183
TURNER, G. C., M.D., 29, King's Mount, Leeds, 17	185
TURNER, Professor H. A., B.Sc.(Econ.), Ph.D., Department of Economics, The University, Leeds, 2	109, 123, 131
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	125
TURNER, Miss M. D. B., 11, Grange Court, Leeds, 6	167
TURNER, Mrs. M. M., 20, Hollin Lane, Leeds, 16	209
TURNER, R., H.N.C., 16, Normandale Avenue, Loxley, Sheffield	160
TURNER, W. P., 21, St. John's Terrace, Leeds, 3	186
TWEDDLE, W., O.B.E., T.D., LL.M., 41, Park Square, Leeds, 1	122
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ULLMANN, Professor S., Dr.Phil., D.Litt., Rydal House, Grosvenor Road, Leeds, 6	109, 122, 131, 140, 215
UNDERWOOD, Councillor J. H., 44, Iveson Rise, Leeds, 16	61, 88
URSELL, H. D., M.A., 3, Edgerton Road, Leeds, 16	122, 131, 134
URWIN, T. R., Ph.D., School of Chemistry, The University, Leeds, 2	159
USHER, F. L., D.Sc., The Tollgate Cottage, Hurstbourne, Tarrant Andover, Hants.	163
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VAIL, J. R., B.Sc., M.Sc., Ph.D., Department of Geology, The University, Leeds, 2	167
VALENTINE, J., M.B., Ch.B., D.P.M., Scalebor Park Hospital, Burley-in-Wharfedale	129
VARTY, A., B.Sc., 30, Norwood Terrace, Leeds, 6	190
VAUGHAN, E. A., B.Com., 6, St. Michael's Terrace, Leeds, 6	174
VEALE, DEREK T., M.A., F.C.A., Messrs. Peate, Marwick, Mitchell and Co., 2, Park Place, Leeds, 1	123, 218
VERITY, Miss S., 1, Cliff Side Gardens, Leeds, 6	72
VERSEY, Emeritus Professor H. C., D.Sc., F.G.S., 1, Stainburn Terrace, Leeds, 17	209
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VICKERS, E., M.A., A.L.A., Flat 4, 132, Woodsley Road, Leeds, 2	159
VINING, Emeritus Professor C. W., M.D., F.R.C.P., D.P.H., 31, Park Square, Leeds, 1	169
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VIRGO, S. R., M.B.E., 4, Queen's Road, Harrogate	122, 138
WADDINGTON, G., B.Sc., Ph.D., F.R.I.C., Hartshead Moor, Cleckheaton, Yorks.	202
WADDINGTON-FEATHER, Mrs. S. M., B.Sc., East View, Warren Lane, Eldwick, Bingley	144
WADE, DONALD W., M.A., LL.B., M.P., Messrs. Booth, Wade, Lomas-Walker and Colbeck, 1, Central Bank Chambers, Leeds, 1	165
WADE, J. LEONARD, B.A., LL.B., Messrs. Wade and Co., Lloyds Bank Chambers, Hustlergate, Bradford	89
WADE, N., A.T.I., 75, Sowerby New Road, Sowerby Bridge	89
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WAGSTAFF, D. St. J. R., M.A., LL.B., 37, Park Square, Leeds, 1	158
WAINWRIGHT, H. S., O.B.E., The Heath, Adel, Leeds, 16	57
WAKEFIELD, Miss A. B., 8, Kirkwood Avenue, Leeds, 16	180
WAKELIN, M. F., M.A., All Souls Vicarage, Blackman Lane, Leeds, 2	147
WALKER, Mrs. A., 62, Cardigan Road, Leeds, 6	204
WALKER, D. C., B.Sc., Ph.D., School of Chemistry, The University, Leeds, 2	125
WALKER, The Rev. G. S. M., M.A., B.D., Ph.D., 83, Otley Old Road, Leeds, 16	164
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WALKER, M. P., 67, Victoria Road, Dewsbury	151
WALKER, Councillor N., c/o Messrs. Atkinson Haserick & Co., Inc., Austral House, Well Street, Bradford, 1	191
WALKER, P. H., B.Sc.(Eng), Ph.D., A.M.I.E.E., 18, Cecil Avenue, Horton Park, Bradford, 7	60
WALKER, R. CLIVE, Messrs. William Walker and Sons, Ltd., Rose Hill Tannery, Bolton, Lancs.	127, 134
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WALKER, Miss R. T., Springhead Grange, Northowram, Halifax	210
WALKER, S., 20, William Street, Staincliffe, Dewsbury	165
WALKER, Miss V. R. M., B.A., Thoresby High School, Great George Street, Leeds, 1	142
WALL, A. E., M.Sc., M.B., Ch.B., F.R.C.S., Manby House, East Chevin, Otley	129
WALLACE, E. W., B.Sc., Ph.D., 24, Hyde Terrace, Leeds, 2	125, 134
WALLBANK, Miss S. ANNIE, B.Sc., New Grange, Selby Road, Leeds, 15	159
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WALLS, W. K. J., M.B., Ch.B., L.R.C.P., M.R.C.S., 2, Greenhead Road, Leeds, 16	152
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WALSH, Miss A. M., 19, Sandringham Drive, Moortown, Leeds, 17	181
WALSH, Alderman J. S., LL.B., Vince's Chambers, Victoria Square, Leeds, 1	145
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WALSH, Professor W., M.A., 27, Moor Drive, Headingley, Leeds, 6	
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WALSH, Miss WINIFRED B., 65, Estcourt Avenue, Leeds, 6	208
WALTON, A. W., B.Sc., 39, The Drive, Leeds, 8	162
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WALTON, Mrs. A., 22, Crossfield Street, Leeds, 2	197
WAPSHERE, A. J., B.Sc., Ph.D., Flat 1, 6, St. Georges Road, Harrogate	210
WARD, Professor A. G., O.B.E., M.A., F.Inst.P., 8, Thornfield Road, Leeds, 16	166
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WARD, C. P., B.Sc., 48, Woodsley Road, Leeds, 2	177
WARDEN, D. S., H.N.C., 54, Berwick Avenue, Heckmondwike	178
WARDMAN, J., 32, Leeds Road, Otley	174
WARING, A. G., B.A., 23, Kingswood Grove, Leeds, 8	176
WATSON, D. A., M.B., B.S., F.R.C.S., The General Infirmary, Leeds, 1	211
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WATSON, D. M., M.A., 65, North Park Avenue, Leeds, 8	129
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WATSON, PAUL B., D.S.O., T.D., F.C.I.I., F.C.I.B., Craven Lodge, 51, Rutland Drive, Harrogate	63, 67, 69, 81, 91, 94, 99
WATSON, R., M.A., M.B., B.Ch., M.R.C.S., M.R.C.P., D.P.H., County Hall, Beverley, Yorks.	93, 95
WATSON, R. K., 64, Woodhall Road, Calverley, Leeds	176
WATT, Rev. W. M., The Muir Institute, 6 Buccleugh Place, Edinburgh	221
WEATHERALL, Professor M., London Hospital Medical College, Turner Street, London, E.1	222
WEATHERELL, J. A., B.Sc., Ph.D., 2, Willow Terrace Road, Leeds, 1	198
WEAVER, R., M.D., L.D.S., The Ministry of Education, Hopewell House, 173, Woodhouse Lane, Leeds, 2	93

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WEBB, S. J. S., M.B., Ch.B., F.F.A.R.C.S., 15, The Rowans, Bramhope, Leeds	129 193
WEBSTER, R. G., M.A., 28, Wynford Rise, Leeds, 16	129 190
WEIDMANN, S. M., Dr.Ing., Ph.D., 3, Cardigan Road, Leeds, 6	129 182
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WELCH, B. L., B.A., Ph.D., The Lane Hotel, St. Michael's Lane, Leeds, 6	
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WELCH, G. E., M.B., B.S., D.P.H., 36, Ayresome Terrace, Leeds, 8	129 195
WELLS, Colonel C. T., O.B.E., T.D., One Oak, Horsforth, Leeds	91
WELLS, M., M.A., 1, Weetwood Grange Road, Leeds, 16	125 160
WERTH, Miss IRENE, M.A., Lupton Hall, Wood Lane, Leeds, 6	125 165
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WESLEY, A., B.Sc., A.R.C.S., F.G.S., F.L.S., 125, Broadgate Walk, Horsforth, Leeds	125, 134 166
WEST, Sir HAROLD E. G., J.P., Comp.I.Mech.E., F.I.I.A., Muswell Lodge, Brincliffe Crescent, Sheffield, 11	58
WESTERN, Professor J. H., B.Sc., Ph.D., 'Westhide', North Drive, Bramhope, Leeds	109, 127, 134, 220 179
WESTGARTH, G. N., M.A., M.Ed., Ph.D., City of Leeds Training College, Becketts Park, Leeds, 6	142
WESTWOOD, Mrs. M., 6, Parkstone Avenue, Leeds, 16	161
WETHERILL, P. M., M.A., Virginia House, 2, North Grange Road, Leeds, 6	123 147
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WEZRAWOWSKI, E., M.Sc., Ph.D., 9, Roman Avenue, Leeds, 8	
WHETTON, Emeritus Professor J. T., D.S.O., O.B.E., M.C., T.D., M.Sc., 19, Oakbank, Shaw Lane, Leeds, 6	61, 91, 111 143
WHEWELL, Professor C. S., B.Sc., Ph.D., F.R.I.C., F.T.I., Croft House, 8, Weetwood Avenue, Leeds, 16	61, 74, 85, 88, 101, 106, 109, 127, 134, 175
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WHEWELL, Mrs. C. S., B.Sc., Ph.D., Croft House, 8, Weetwood Avenue, Leeds, 16	217
WHIDDINGTON, Emeritus Professor R., C.B.E., M.A., D.Sc., F.R.S., The Rookery, Holme next the Sea, by King's Lynn, Norfolk	111
WHITAKER, A. V., B.A., 11, Wakefield Road, Garforth	170
WHITAKER, Mrs. B.A., 28, Newbiggin, Richmond, Yorks.	202
WHITAKER, F. P. G., M.A., S.M., Lyddon Hall, Leeds, 2	123, 220 156
WHITAKER, H., M.Sc., 2, Richmond Mount, Leeds, 6	120
WHITAKER, Mrs. J. E., 11, Wakefield Road, Garforth	170
WHITAKER, W., B.Sc., M.D., M.R.C.P., 20, Clarendon Road, Leeds, 2	130, 137 187
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WHITE, Mrs. A. E., B.Sc., Ph.D., 52, Cardigan Road, Leeds, 6	174
WHITE, D., B.Sc., Ph.D., 52, Cardigan Road, Leeds, 6	
WHITE, G. R., O.B.E., M.A., Director, United Tanners' Federation, Leather Trade House, 17/19, Barter Street, London, W.C.1	90
WHITEHEAD, Miss G., The Park, Monk Fryston, Leeds	200
WHITEHEAD, Councillor J., 33, Oldham Road, Delph, Oldham	139
WHITLEY, D., 9, Whitehall Grove, Birkenshaw, Bradford	165
WHITLEY, Mrs. S., 47, Moseley Wood Walk, Leeds, 16	150
WHITFIELD, R. C., B.Sc., 11, Westbourne Avenue, Garforth	165
WHITING, H. T. A., Dip. Phys. Ed., 144, Otley Road, Leeds, 6	125 206
WHITTAKER, J. M., M.A., D.Sc., F.R.S., The University of Sheffield, Sheffield, 10	61
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WHITTINGHAM, W., B.Sc.(Agric.), 62, Springfield Place, Leeds, 2	180
WHITTINGTON, B., B.Sc., Ph.D., 34, Parklands, Bramhope, Leeds	127, 135
WHYTE, Miss MARION B.H., M.A., Flat 6, Virginia House, 2, North Grange Road, Leeds, 6	130 190

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WICKHAM, G. A., M.Agr.Sc., 5a, Woodhouse Cliff, Leeds, 6	181
WIDENGREN, Professor G., Devonshire Hall, Cumberland Road, Leeds, 6	145
WIGGLESWORTH, J., B.Ch.D., F.D.S.R.C.S., 3, Laurel Bank, East Keswick, Leeds	130 197
WIGHTMAN, W. A., M.A., F.R.I.C., Ambleside, 2, Church Wood Mount, Leeds, 16	162 63, 66, 69, 125, 134, 218 164
WILD, D. G., M.A., D.Phil., 15, Tredgold Crescent, Bramhope, Leeds	130, 135 182
WILDE, P. F., B.Sc., 59c, Clarendon Road, Leeds, 2	186
WILKIE, J. R., B.A., M.A., 59, Grove Lane, Leeds, 6	123, 131 148
WILKINSON, F., B.Sc., Ph.D., 575, Manchester Road, Linthwaite, Huddersfield	164
WILKINSON, Mrs. J., B.Sc., Ph.D., 17, Wrenbeck Drive, Otley	188
WILKINSON, Mrs. M., B.A., 13, Monkbridge Road, Leeds, 6	157
WILKINSON, R. K., B.A., 13, Monkbridge Road, Leeds, 6	123 155
WILLCOCK, J. B., B.A., 20, Lynwood Avenue, Woodlesford, Leeds	123 199
WILCOX, J. S., B.Sc., F.R.I.C., Glebe Cottage, Kirkby Overblow, Harrogate	127, 134 179
WILLEY, R. W., B.Sc.(Agric.), 1, Headingley Crescent, Leeds, 6	179
WILLIAMS, A., B.Sc., Ph.D., 60, Fitzroy Drive, Leeds, 8	174
WILLIAMS, G. H., B.Sc., 35, Cromer Terrace, Leeds, 2	179
WILLIAMS, J. E., M.A., Ph.D., 8, Spen Road, Leeds, 16	123 155
WILLIAMS, L., 27, Waterloo Avenue, Churchbalk, Pontefract	171
WILLIAMSON, Emeritus Professor A. V., M.A., 4, Bolton Road, Birkdale, Southport	111
WILLIAMSON, E., T.D., B.Sc.(Econ.), 1, Claremont Drive, Leeds, 6	56, 91, 139, 218, 219 209
WILLIS, A. T., M.B., B.S., Ph.D., 1, Lyddon Terrace, Leeds, 2	130 185
WILLIS, Emeritus Professor R. A., D.Sc., M.D., F.R.C.P., Riverside, Nancledra, Penzance, Cornwall	111 183
WILLIX, R., B.Sc., Ph.D., Devonshire Hall, Cumberland Road, Leeds, 6	164
WILLOUGHBY, Miss M. G., M.A., Mill Mount Grammar School, York	62, 88
WILSON, Mrs A., 11, Bainbrigge Road, Leeds, 6	180
WILSON, A. H., M.B., Ch.B., D.P.M., Meanwood Park Hospital, Leeds	95, 130 190
WILSON, B. R., B.Sc.(Econ.), Ph.D., Sadler Hall, Leeds, 16	60, 123, 132 156
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WILSON, Miss C. A., M.A., Weetwood Hall, Leeds, 16	203
WILSON, Emeritus Professor F. P., B.Litt., M.A., D.Litt., LL.D., F.B.A., 30, Cumnor Hill, Oxford	72, 215, 219
WILSON, G., M.Sc., A.R.I.B.A., A.M.I.Struct.E., Pasture Cottage, Kearby, Wetherby	209
WILSON, Miss J., 5, St. Anne's Lane, Leeds, 4	205
WILSON, Professor J. G., M.A., Ph.D., F.Inst.P., 420, Otley Road, Leeds, 16	64, 83, 88, 109, 125, 134, 137, 141, 142, 213, 215, 219 160
WILSON, LESLIE G., C.B.E., A.T.I., Highfield Mills, Gildersome, Leeds	63, 64, 66, 69, 100, 101
WILSON, L., 56, Strathmore Terrace, Leeds, 9	171
WILSON, Miss M. H., Flat 1, 72, St. Michael's Road, Leeds, 6	156
WILSON, W. L., 35, Timothy Lane, Batley	167
WINN, J. M., B.A., M.R.C.P., M.R.C.S., D.M.R.D., 59, Gledhow Wood Road, Leeds, 8	130 198
WINNING, Mrs. P., 77, Shaftesbury Avenue, Leeds, 8	146
WISE, A., Dip. Central School of Speech and Drama, Dip. Dramatic Art, 5, South Esplanade, York	123, 132 153
WISEMAN, H. V., B.Sc.(Econ.), LL.B., M.A., Ph.D., 94, Belle Vue Road, Leeds, 3	123, 131 156
WITTS, A. G., B.Com., 4, Chevet Lane, Sandal, Wakefield	123 155
WOLF, J., M.Sc., 108, Stainbeck Lane, Leeds, 7	127, 134 179

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WOLFENDEN, K., B.Sc., M.A., 48, Long Meadows, Bramhope, Leeds	125, 134		160
WOLSTENCROFT, J. H., M.A., Ph.D., 26, Hyde Terrace, Leeds	2	130	182
WOMACK, H., F.I.S.T., Land's Head, Northowram, Halifax			165
WOOD, Professor D. R., B.Sc., B.M., B.Ch., M.A., 2, Weetwood Grange Road, Leeds, 16	86, 109, 130, 134, 137		183
WOOD, E. A. M., M.B., Ch.B., M.R.C.P.Ed., D.P.M., 87, Tinsill Road, Leeds, 16		130, 137	190
WOOD, Professor E. J., M.A., 12, Westville Avenue, Ilkley	72, 99, 109, 123, 131, 142, 213		145
WOOD, H., 156, Stainburn Crescent, Leeds, 17			176
WOOD, The Rev. Professor J., 3, East Savile Road, Edinburgh		221	
WOOD, J., B.E.M., J.P., 1, Buxton Road, Smithies, Barnsley		72	
WOOD, Miss K., 8, Kingswood Grove, Leeds, 8			180
WOOD, R., 49, Shadwell Walk, Moortown, Leeds, 17			180
WOOD, T. JASON, B.Ch.D., L.D.S., D.Orth.R.C.S., 241, Manningham Lane, Bradford, 8		130	197
WOODCOCK, Miss HESTER E. DE C., B.A., M.B., Ch.B., 23, Burton Crescent, Leeds, 6		61, 143	
WOODFORD, T. G. C., M.A., Leeds Grammar School, Leeds, 2		62	
WOODGATE, Alderman F. G., 108, Westfield Lane, Idle, Bradford		61	
WOODHEAD, C., L.D.S., Camden, 4, Hillcrest Rise, Leeds, 16	130, 137, 217		197
WOODHEAD, J. L., M.A., Bodington Hall, Leeds, 16		123	153
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WOODHEAD, Miss J. M., B.A., 22, The Birches, Bramhope, Leeds		103	210
WOODHOUSE, J. M., M.A., D.Phil., 547, Scott Hall Road, Leeds, 7			176
WOODMANSEY, Miss B., 15, Strathmore Avenue, Leeds, 9			210
WOODS, C. G., M.B., Ch.B., B.Sc., Department of Pathology, The University, Leeds, 2		130	183
WOODS, H. J., M.A., F.Inst.P., 115, Victoria Road, Leeds, 6	127, 134		175
WOODS, J. A., M.A., Ph.D., Department of History, The University, Leeds, 2		123	149
WOOLER, Alderman E. J. LOY, M.B.E., J.P., Spencer House, Main Street, Shadwell, Leeds, 17		63, 67, 70, 85	
WOOLER, GEOFFREY H., T.D., M.A., B.Chir., M.D., F.R.C.S., L.R.C.P., 27, Clarendon Road, Leeds, 2		130, 137	192
WOOLLEY, D., B.Sc., Flat 3, 34, Duchy Road, Harrogate			182
WOOLRYCH, A. H., B.Litt., M.A., Broom Bank, Hall Drive, Bramhope, Leeds	123, 131, 215		149
WOOTTON, H. J., B.Sc.(Eng.), 1, Lawnswood Gardens, Leeds, 16		127	169
WORRALL, W. E., M.Sc., Ph.D., A.R.I.C., 10, Moseley Wood Avenue, Leeds, 16			173
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WORSLEY, Colonel Sir WILLIAM, Bt., Hovingham Hall, York	63, 67, 88		
WORSWICK, G. N. D., Magdalen College, Oxford		221	
WOTHERSPOON, A. S., M.B., Ch.B., Department of Bacteriology, The University, Leeds, 2		130	185
WREN, A., M.A., Lyddon Hall, Virginia Road, Leeds, 2			160
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WREN, Miss M. J., B.Sc., Ph.D., 19, Brookfield Road, Leeds, 6		127	179
WRIGHT, A., The Green, Upper Poppleton, York		123	153
WRIGHT, C. J. E., M.Sc., M.D., 104, Gledhow Wood Road, Leeds, 8		130, 137	183
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WRIGHT, Miss EDITH M., B.Sc., 137, Brudenell Road, Leeds, 6			
WRIGHT, Alderman G., M.B.E., J.P.		95	
WRIGHT, J. T., M.A., School of English, The University, Leeds, 2		123	147
WRIGHT, M.		58	
WRIGHT, V., M.D., M.R.C.P., 8, St. Michael's Villas, Leeds, 9		130	187
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WYNNE, A. J., B.Sc., N.D.A., 16, Cardigan Road, Leeds, 6	127	180
YATES, Miss DORA E., M.A., Flat 2, Highfield, 19, Olive Lane, Liverpool, 15		203
YATES, E., 1020, Leeds Road, Chidswell, Dewsbury		103
YETTRAM, A. L., B.A., B.A.I., Flat 1, 48, Headingley Lane, Leeds, 6	127, 134	169
YOUELL, R. F., B.Sc., Ph.D., A.Inst.P., A.R.C.S., 21, Burley Wood Crescent, Leeds, 4	125, 134	161
YOUNG, A. J., M.A., B.Ed., 7, Thornfield Road, Leeds, 16	130	190
YOUNG, D., A.T.I., 464, Spen Lane, Leeds, 16	127	176
YOUNG, D. S., M.B., Ch.B., D.A., F.F.A.R.C.S., 5, The Drive, Leeds, 8		193
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ZAREMSKI, P. M., F.I.M.L.T., 56, Whitebridge Avenue, Leeds, 9		192
ZINNEMANN, K. S., M.D., M.Sc., 45, Grove Lane, Leeds, 6	130, 137	185
ZOBEL, A., B.A., Ph.D., 22, Thornfield Road, Leeds, 16	125, 134	159

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