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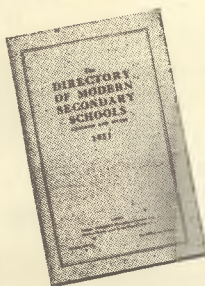
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ALMANAC

SESSION 1952-53

OCTOBER, 1952

1st TERM

(Tuesday, 7th October to Friday, 19th December.)

- | | | | |
|----|-----|---|---|
| 1 | W. | Senate Business Committee. | |
| 2 | Th. | | |
| 3 | F. | | |
| 4 | S. | | |
| 5 | S. | | |
| 6 | M. | | Admission of Students. |
| 7 | Tu. | First Term begins. | Admission of Students. |
| 8 | W. | Senate. | Admission of Students. |
| 9 | Th. | | |
| 10 | F. | | |
| 11 | S. | | |
| 12 | S. | | |
| 13 | M. | Ph.D. Committee. Applications Committee. | |
| 14 | Tu. | Board of the Faculties of Arts, Economics and Commerce and Law. | <i>Public Lecture.</i> |
| 15 | W. | Finance Committee. | |
| 16 | Th. | Board of the Faculties of Science and Technology. | <i>Medical Inaugural Lecture.</i> |
| 17 | F. | Library Committee. | |
| 18 | S. | Institute of Education Executive Committee. | |
| 19 | S. | | |
| 20 | M. | | <i>Art Lecture.</i> |
| 21 | Tu. | Board of the Faculty of Medicine. | <i>Public Lecture.</i> |
| 22 | W. | Council. | |
| 23 | Th. | | <i>Moynihan Memorial Lecture.</i> |
| 24 | F. | | <i>Public Lecture.</i> |
| 25 | S. | | |
| 26 | S. | | |
| 27 | M. | | <i>Public Lecture.</i> |
| 28 | Tu. | | <i>University Lecture and Public Lecture.</i> |
| 29 | W. | Senate Business Committee. Women's Halls Committee. | <i>The Buckland Lecture.</i> |
| 30 | Th. | Last day for entry and payment of fees for Medical Examinations to be held in December. | <i>Public Lecture</i> |
| 31 | F. | | |

NOVEMBER, 1952

- 1 S.
- 2 S.
- 3 M. Applications Committee. *Public Lecture*
- 4 Tu. Medical Library Sub-Committee.
- 5 W. Senate.
- 6 Th. *University Lecture.*
- 7 F.
- 8 S.
- 9 S.
- 10 M. Ph.D. Committee. *Advanced Science Lecture.*
- 11 Tu. Board of the Faculties of Arts, Economics and
Commerce and Law.
- 12 W. Congregation for the conferment of Honorary Degrees.
- 13 Th.
- 14 F. *University Lecture.*
- 15 S. Institute of Education Executive Committee.
- 16 S. *University Sermon.*
- 17 M.
- 18 Tu. Board of the Faculty of Medicine.
- 19 W. Council and Court.
- 20 Th. Board of the Faculties of Science and Technology.
- 21 F. Library Committee. *Public Lecture.*
- 22 S.
- 23 S.
- 24 M. *University Lecture.*
- 25 Tu. *Public Lecture.*
- 26 W. Senate, Business Committee. Men's Hall Committee.
- 27 Th.
- 28 F.
- 29 S.
- 30 S.

DECEMBER, 1952

- 1 M. Applications Committee.
2 Tu. Appointments Board.
3 W. Senate.
4 Th.
5 F.
6 S.
- 7 S.
8 M. Ph.D. Committee.
9 Tu. Board of the Faculties of Arts, Economics and
Commerce and Law. *Public Lecture.*
10 W. Finance Committee.
11 Th.
12 F.
13 S.
- 14 S.
15 M. Board of the Institute of Education.
16 Tu. Board of the Faculty of Medicine.
17 W. Council.
18 Th. Board of the Faculties of Science and Technology.
19 F. First Term ends.
20 S.
- 21 S.
22 M.
23 Tu.
24 W.
25 Th. Christmas Day. University closed.
26 F. University closed.
27 S. University closed.
- 28 S.
29 M.
30 Tu.
31 W.

JANUARY, 1953

2nd TERM

(Tuesday, 13th January to Friday, 20th March)

- | | | | |
|----|-----|---|----------------------------------|
| 1 | Th. | New Year's Day. | |
| 2 | F. | | |
| 3 | S. | | |
| 4 | S. | | |
| 5 | M. | | |
| 6 | Tu. | | |
| 7 | W. | | |
| 8 | Th. | | |
| 9 | F. | | |
| 10 | S. | | |
| 11 | S. | | |
| 12 | M. | | |
| 13 | Tu. | Second Term begins. | |
| 14 | W. | Finance Committee. | |
| 15 | Th. | | |
| 16 | F. | | |
| 17 | S. | Institute of Education Executive Committee. | |
| 18 | S. | | |
| 19 | M. | | <i>Public Lecture.</i> |
| 20 | Tu. | | <i>Public Lecture.</i> |
| 21 | W. | Council. | |
| 22 | Th. | | |
| 23 | F. | | <i>Public Lecture.</i> |
| 24 | S. | | |
| 25 | S. | | <i>University Sermon.</i> |
| 26 | M. | | <i>Advanced Science Lecture.</i> |
| 27 | Tu. | | |
| 28 | W. | Senate Business Committee. Women's Halls Committee. | |
| 29 | Th. | | |
| 30 | F. | Last day for entry and payment of fees for examinations to be held in March or June, other than those medical and dental examinations which are held in June. | |
| 31 | S. | | |

FEEURARY, 1953

- 1 S.
 2 M. Applications Committee. *Public Lecture.*
 3 Tu. Medical Library Sub-Committee. *Ind. 5.*
 4 W. Senate.
 5 Th.
 6 F. *University Lecture.*
 7 S.
 8 S.
 9 M. Ph.D. Committee. *Advanced Science Lecture.*
 10 Tu. Board of the Faculties of Arts, Economics and
 Commerce and Law.
 11 W. Finance Committee.
 12 Th.
 13 F.
 14 S. Institute of Education Executive Committee.
 15 S.
 16 M. *Public Lecture.*
 17 Tu. Board of the Faculty of Medicine. *Public Lecture.*
 18 W. Council.
 19 Th. Board of the Faculties of Science and Technology.
 20 F. Library Committee. *Public Lecture.*
 21 S.
 22 S.
 23 M. *University Lecture.*
 24 Tu.
 25 W. Senate Business Committee. Men's Halls Committee.
 26 Th.
 27 F.
 28 S.

MARCH, 1953

- 1 S.
- 2 M. Applications Committee.
- 3 Tu. *Public Lecture. Montague Burton Lecture.*
- 4 W. Senate.
- 5 Th.
- 6 F. *University Lecture.*
- 7 S.
- 8 S.
- 9 M. Ph.D. Committee.
- 10 Tu. Board of the Faculties of Arts, Economics and
Commerce and Law.
- 11 W. Finance Committee.
- 12 Th. Board of the Institute of Education.
University Lecture.
- 13 F.
- 14 S.
- 15 S.
- 16 M.
- 17 Tu. Board of the Faculty of Medicine.
- 18 W. Council.
- 19 Th. Board of the Faculties of Science and Technology.
- 20 F. Second Term ends.
- 21 S.
- 22 S.
- 23 M.
- 24 Tu.
- 25 W.
- 26 Th.
- 27 F.
- 28 S.
- 29 S.
- 30 M.
- 31 Tu.

APRIL, 1953

3rd TERM

(Tuesday, 21st April to Friday, 3rd July.)

- | | | |
|----|-----|---|
| 1 | W. | |
| 2 | Th. | |
| 3 | F. | Good Friday. University closed. |
| 4 | S. | University closed. |
| 5 | S. | Easter Day. |
| 6 | M. | Easter Monday. University closed. |
| 7 | Tu. | University closed. |
| 8 | W. | |
| 9 | Th. | |
| 10 | F. | |
| 11 | S. | |
| 12 | S. | |
| 13 | M. | |
| 14 | Tu. | |
| 15 | W. | Finance Committee. |
| 16 | Th. | |
| 17 | F. | |
| 18 | S. | Institute of Education Executive Committee. |
| 19 | S. | |
| 20 | M. | |
| 21 | Tu. | Third Term begins. |
| 22 | W. | Council. |
| 23 | Th. | |
| 24 | F. | Library Committee. Foundation of the University,
1904. |
| 25 | S. | |
| 26 | S. | |
| 27 | M. | |
| 28 | Tu. | |
| 29 | W. | Senate Business Committee. |
| 30 | Th. | Last day for entry and payment of fees for Medical
and Dental examinations to be held in June. |

MAY, 1953

- 1 F. Last day for receipt of theses for examination in June.
- 2 S.
- 3 S.
- 4 M. Applications Committee.
- 5 Tu.
- 6 W. Senate.
- 7 Th.
- 8 F.
- 9 S.
- 10 S. *University Sermon.*
- 11 M. Ph.D. Committee.
- 12 Tu. Board of the Faculties of Arts, Economics and Commerce and Law.
- 13 W. Finance Committee.
- 14 Th.
- 15 F.
- 16 S.
- 17 S.
- 18 M.
- 19 Tu. Board of the Faculty of Medicine.
- 20 W. Council and Court.
- 21 Th. Board of the Faculties of Science and Technology.
- 22 F.
- 23 S.
- 24 S. Whit Sunday.
- 25 M. Whit Monday. University closed.
- 26 Tu.
- 27 W. Senate Business Committee. Women's Halls Committee.
- 28 Th.
- 29 F.
- 30 S. Institute of Education Executive Committee.
- 31 S.

JUNE, 1953

- 1 M.
2 Tu.
3 W. Senate.
4 Th.
5 F.
6 S.
- 7 S.
8 M. Ph.D. Committee.
9 Tu. Board of the Faculties of Arts, Economics and
Commerce and Law.
10 W. Finance Committee.
11 Th.
12 F.
13 S.
- 14 S.
15 M.
16 Tu. Board of the Faculty of Medicine.
17 W. Council.
18 Th. Board of the Faculties of Science and Technology.
19 F. Library Committee.
20 S.
- 21 S.
22 M.
23 Tu.
24 W. Senate Business Committee. Men's Halls Committee.
25 Th.
26 F.
27 S.
- 28 S.
29 M.
30 Tu. Last day for applications for Entrance Scholarships.
Board of the Institute of Education.

JULY, 1953

- 1 W. Senate.
2 Th.
3 F. Third term ends.
4 S.
5 S.
6 M.
7 Tu.
8 W. Finance Committee.
9 Th.
10 F.
11 S.
12 S.
13 M.
14 Tu.
15 W. Council. Last day for entry and payment of fees for Medical and Dental examinations to be held in September.
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. Last day for entry and payment of fees for examinations to be held in September other than Medical and Dental examinations.

AUGUST, 1953

1 S.

2 S.

3 M. University closed.

4 Tu. University closed.

5 W.

6 Th.

7 F.

8 S.

9 S.

10 M.

11 Tu.

12 W.

13 Th.

14 F.

15 S.

16 S.

17 M.

18 Tu.

19 W.

20 Th.

21 F.

22 S.

23 S.

24 M.

25 Tu.

26 W.

27 Th.

28 F.

29 S.

30 S.

31 M.

SEPTEMBER, 1953

1 Tu.
2 W.
3 Th.
4 F.
5 S.

6 **S.**
7 M.
8 Tu.
9 W.
10 Th.
11 F.
12 S.

13 **S.**
14 M.
15 Tu.
16 W.
17 Th.
18 F.
19 S.

20 **S.**
21 M.
22 Tu.
23 W.
24 Th.
25 F.
26 S.

27 **S.**
28 M.
29 Tu.
30 W.

Senate Business Committee.

SESSION 1953-54

OCTOBER, 1953

1st TERM

(Tuesday, 6th October to Friday, 18th December)

- | | | |
|----|-----|---|
| 1 | Th. | |
| 2 | F. | |
| 3 | S. | |
| 4 | S. | |
| 5 | M. | Admission of students. |
| 6 | Tu. | First term begins. Admission of students. |
| 7 | W. | Senate. Admission of students. |
| 8 | Th. | |
| 9 | F. | |
| 10 | S. | |
| 11 | S. | |
| 12 | M. | Ph.D. Committee. Applications Committee. |
| 13 | Tu. | Board of the Faculties of Arts, Economics and Commerce and Law. |
| 14 | W. | Finance Committee. |
| 15 | Th. | Board of the Faculties of Science and Technology. |
| 16 | F. | Library Committee. |
| 17 | S. | |
| 18 | S. | |
| 19 | M. | |
| 20 | Tu. | Board of the Faculty of Medicine. |
| 21 | W. | Council. |
| 22 | Th. | |
| 23 | F. | |
| 24 | S. | |
| 25 | S. | |
| 26 | M. | |
| 27 | Tu. | |
| 28 | W. | Senate Business Committee. Women's Halls Committee. |
| 29 | Th. | |
| 30 | F. | Last day for entry and payment of fees for medical examinations to be held in December. |
| 31 | S. | |

NOVEMBER, 1953

- 1 S.
2 M. Applications Committee.
3 Tu. Medical Library Sub-Committee.
4 W. Senate.
5 Th.
6 F.
7 S.
- 8 S.
9 M. Ph.D. Committee.
10 Tu. Board of the Faculties of Arts, Economics and
Commerce and Law.
11 W. Finance Committee.
12 Th.
13 F.
14 S.
- 15 S.
16 M.
17 Tu. Board of the Faculty of Medicine.
18 W. Council.
19 Th. Board of the Faculties of Science and Technology.
20 F. Library Committee.
21 S.
- 22 S.
23 M.
24 Th.
25 W. Senate Business Committee. Men's Halls Committee.
26 Th.
27 F.
28 S.
- 29 S.
30 M. Applications Committee.

DECEMBER, 1953

- | | | |
|----|-----|--|
| 1 | Tu. | Appointments Board. |
| 2 | W. | Senate. |
| 3 | Th | |
| 4 | F. | |
| 5 | S. | |
| 6 | S. | |
| 7 | M. | Ph.D. Committee. |
| 8 | Tu. | Board of the Faculties of Arts, Economics and
Commerce and Law. |
| 9 | W. | Finance Committee. |
| 10 | Th. | |
| 11 | F. | |
| 12 | S. | |
| 13 | S. | |
| 14 | M. | |
| 15 | Tu. | Board of the Faculty of Medicine. |
| 16 | W. | Council. |
| 17 | Th. | Board of the Faculties of Science and Technology. |
| 18 | F. | First Term ends. |
| 19 | S. | |
| 20 | S. | |
| 21 | M. | |
| 22 | Tu. | |
| 23 | W. | |
| 24 | Th. | University closed. |
| 25 | F. | Christmas Day. University closed. |
| 26 | S. | University closed. |
| 27 | S. | |
| 28 | M. | |
| 29 | Tu. | |
| 30 | W. | |
| 31 | Th. | |

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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 by and in such name to sue and be sued and to do all other lawful acts whatsoever and with full power and capacity, subject to the restrictions herein set forth, without any further licence to all persons and corporations to assure and to the University to take, by gift or otherwise purchase and hold and also to grant demise or otherwise dispose of real and personal property.

II. The University shall have the powers following :

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

2. To admit graduates of other Universities to Degrees of equal or similar rank in the University.

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

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

5. To confer Honorary Degrees, or other distinctions on approved persons.

Provided that all Degrees and other distinctions shall be conferred and held subject to any provisions which may be made in reference thereto by the Statutes, Ordinances, or Regulations of the University.

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

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

8. To accept the examinations and periods of study passed by students of the University at other Universities or places of learning as equivalent to such examinations and periods of study in the University as the University may determine, and to withdraw such acceptance at any time.

Provided that in no case shall the University confer a Degree in Medicine or Surgery upon any person who has not attended in the University during two years at least courses of study recognised for such Degree, or for one of the other Degrees of 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 such part of the attendance at courses of study in the University, and upon such terms and conditions and subject to such regulations as may from time to time be determined by the University.

10. To co-operate by means of joint boards or otherwise, with other Universities and Authorities for the

conduct of Matriculation examinations, for the examination and inspection of schools and other academic institutions and for such other purposes as the University may from time to time determine.

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

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

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

14. To institute Professorships, Assistant Professorships, Readerships, Lectureships, Teacherships, and any other offices required by the University, and to appoint to such offices. Also to institute and award Fellowships, Scholarships and Exhibitions and Prizes.

15. To license Halls for the residence of students.

16. To do all such other acts and things whether incidental to the powers aforesaid or not, as may be requisite in order to further the objects of the University as a Teaching and Examining Body, and to cultivate and promote Arts, Science, and Learning.

III. It shall be the duty of the University to co-operate, by means of a Joint Board or otherwise, with the Victoria University of Manchester and the University of Liverpool for the regulation and conduct of Matriculation examinations, including the conditions of exemption therefrom. Statutes of the University shall prescribe and regulate the constitution

and duties of the said Joint Board, the appointment and continuance in office of the members thereof, the filling of vacancies among the members, and all other matters relative to the Joint Board which it may be thought are proper to be so regulated and prescribed.

Visitor

IV. 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.

Authorities of the University

V. 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.

The Chancellor

VI. 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, Marquis 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.

The Pro-Chancellor

VII. 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.

The Vice-Chancellor

VIII. 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.

The Pro-Vice-Chancellor

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

The Court

X. The Court shall be the governing body of the University and shall direct the form, custody, and use of the Common Seal, and shall have power to regulate and

determine all matters concerning the University, and generally shall exercise all the powers and discretions of the University, except as otherwise provided by this Our Charter or by the Statutes.

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

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

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

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

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

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

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

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

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

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

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

- (a) The titles of Degrees,
- (b) The establishment of new Degrees,
- (c) The periods of residence and study in the University or in any affiliated or recognised institution required for Degrees,
- (d) The conditions under which Degrees higher than the Degree of Bachelor in any faculty are to be granted,
- (e) 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.

The Council

XII. 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.

The Senate

XIII. The constitution of the Senate shall be determined by Statute.

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

Faculties

XIV. 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.

Convocation

XV. 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.

Powers of Convocation

XVI. 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.

Regulations as to Procedure

XVII. 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.

The Treasurer

XVIII. 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.

Members of the University

XIX. 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.

Advisory Committees

XX. 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.

Examiners and Examinations

XXI. 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.

General Provisions

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

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

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

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

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

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

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

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

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

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

THE SCHEDULE STATUTES

I.

The University Court

(a)

The University Court (hereinafter called the Court) shall consist of the following persons, viz. :

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, viz. :

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, viz :—one representative for every hundred members up to 500.

5. Representatives of other Institutions, viz. :

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 (a) 2 above, and all members mentioned in clause (a) 3 above, shall hold office for one year from the date of appointment. Of the members mentioned in clause (a) 4, 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

(a) 5 and 6, shall hold office for two years from the respective dates of appointment. Members mentioned in clause (a) 7 shall hold office for five years from the respective dates of appointment, but of the members appointed by co-optation two, to be selected by lot or otherwise as the Court shall determine, shall retire each year.

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

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

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

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

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

II.

The University Council

(a) The University Council (hereinafter called the Council) shall consist of the following persons, namely:—

The Chancellor, the Pro-Chancellor, the Vice-Chancellor, the Pro-Vice-Chancellor and the Treasurer.

Two representatives of the West Riding County Council.

One representative of the North Riding County Council.

One representative of the East Riding County Council.

Two representatives of the County Borough of Leeds.

One representative of the County Borough of Bradford.

One representative of the Council of the County Borough of York.

One representative of the Council of the County Borough of Hull.

One representative of the Council of the County Borough of Halifax.

One representative of the Council of the County Borough of Huddersfield.

One representative of the Council of the County Borough of Middlesbrough.

One representative of the Council of the County Borough of Barnsley.

One representative of the Council of the County Borough of Dewsbury.

One representative of the Council of the County Borough of Wakefield.

One from the Council of each of such other Yorkshire County Boroughs already existing or to be created in future as may be approved by the Court.

Two representatives of the Clothworkers' Company of London.

Four members of the Senate to be elected by the Senate.

Two representatives to be elected from among their number by the members of the Faculties who are not members of the Senate.

Two members to be elected by Convocation.

One member to be nominated by the Crown.

Twelve members to be elected by the Court. Provided nevertheless, that at first such of the present members of the Council of the Yorkshire College as have been elected thereto by the Board of Governors of the College shall take the place of the said twelve members; and of such members of the Council of the Yorkshire College four, to be selected by lot or otherwise as the Council may determine, shall retire every three years until the number of such members has been reduced to twelve or less; and on the number of such members being reduced to less than

twelve the Court shall have power to appoint any other person or persons to make up such number to twelve. Provided also that, as from the 1st May, 1920, the number of members to be elected by the Court shall be increased from twelve to sixteen. Provided also that a person of the age of 71 years or over shall not be eligible for election or re-election by the Court as a member of the Council unless he was a member on the 21st April, 1920. So soon as the number of such members shall have been reduced to twelve or less, the members of the Council of the Yorkshire College who at that time remain members of the Council, together with such appointee or appointees of the Court as aforesaid, shall hold office for the period and be subject to the provisions as to retirement hereinafter mentioned, as if all such members and appointees as aforesaid had been elected members of the Council by the Court on the day when such number as aforesaid was reduced to twelve or less.

The members of the Teaching Staff who are members of the Council, however elected (including the Vice-Chancellor and the Pro-Vice-Chancellor), shall not exceed one fifth of the whole Council.

(b) The periods during which the members of the Council respectively shall hold office shall be as follows :

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

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

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

Subject to the proviso contained in the foregoing Sub-section (a) as to an age-limit for the election or re-election of members by the Court, all retiring members shall be eligible for re-appointment or re-election.

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

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

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

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

III.

Powers of the Council

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

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

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

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

To institute Professorships, Assistant Professorships, Readerships, Lectureships, or other teaching offices, after giving the Senate the opportunity of reporting thereon.

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

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

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

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

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

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

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

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

IV.

Powers of the Vice-Chancellor

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

V.

The Senate

The Senate of the University shall consist of the Vice-Chancellor the Professors of the University and the Librarian, together with such additional members not

exceeding eight in number as the Court may, after report from the Senate, appoint ; provided that

- (i) 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,
- (ii) the members of all the Faculties shall elect four persons each year to be nominated for appointment as additional members.

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

The Senate shall have the following powers :

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

To appoint Internal Examiners after report from the Board or Boards of Faculties concerned.

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

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

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

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

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

To appoint on delegation of the Council, Readers, Lecturers, and other academic officers of the University not being Professors.

To formulate and modify or revise, subject to the control of the Council, schemes for the organisation of Faculties of Arts, Science, Medicine, Technology, and any other Faculties of the University, and to assign to such Faculties their respective subjects; also to report to the Council as to the expediency of the establishment at any time of other Faculties, or as to the expediency of the abolition, combination, or subdivision 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.

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.

There shall be a Dean of each Faculty elected by that Faculty, or otherwise as the Council shall direct. He shall preside at the meetings of the Faculty and hold office during such period and with such powers as shall be determined by Statute or Ordinance, and shall be eligible for re-election.

VII.

Powers of the Boards of Faculties

The Boards of Faculties respectively shall have the powers following :—

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

To make recommendations as to the appointment of Examiners.

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

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

VIII.

Convocation

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

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

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

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

IX.

Auditor

The Court shall annually appoint an Auditor, who shall be a member of the Institute of Chartered Accountants of England and Wales, or of the Incorporated Society of

Accountants and Auditors, in the active practice of his profession, who shall receive such remuneration as may from time to time be determined by the Court.

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

X.

Committee for considering objections by the Universities at Manchester and Liverpool

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

The Joint Committee shall be convened by the Registrar of the Victoria University of Manchester.

XI.

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

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

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

XII.

Examination Requirements for Entry upon Degree Courses

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

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

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

The regulations of the Board regarding the examinations conducted by it shall not affect the power of each University (a) 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; (b) 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 (c) 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 (a) and (b) of this

clause; (d) to admit students who have not passed the examination for Matriculation to such classes as it may think fit.

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

When any change in the regulations regarding the examination for Matriculation is carried in the Joint Board by a majority consisting of less than two-thirds of the members who are present, the question at issue shall, if any four members present and voting so require, be referred to each of the five Universities, who shall each then nominate two additional members of the Board for the purpose of dealing with such question. The decision of the Board so constituted shall be final.

The Board shall send annual reports to each University.

The five Universities shall contribute to the expenses of the Joint Board in such proportions as may be from time to time determined.

XIII.

Periods of Study before Graduation

The period of study necessary to qualify any student for 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 First day of 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**

*Emergency Statute made by the Court on the 27th
February, 1940.*

During the period of the present emergency and for twelve months thereafter :—

1. The Senate shall have power to waive the conditions of Statute XIII in the case of any person whose course of study has been, in the opinion of the Senate, affected by circumstances directly attributable to the emergency. Any action taken hereunder by the Senate shall be reported to the Council together with a brief statement of the circumstances.

2. The Senate shall have power to waive the requirements of the existing Ordinances in so far as such Ordinances prescribe courses of study examinations and residence in the case of any person whose

course of study has been, in the opinion of the Senate, affected by circumstances directly attributable to the emergency. Any action taken hereunder by the Senate shall be reported to the Council together with a brief statement of the circumstances.

3. The Senate shall have power to confer degrees by resolution and *in absentia* upon candidates who have satisfied the requirements for a degree and are unable to attend a degree ceremony owing to approved national service or other causes directly attributable to the emergency.

4. No action taken by any Committee of Examiners in the University shall be invalidated by reason of the fact that an external examiner has been prevented from taking part in the examination through causes arising from the emergency.

5. The quorum of members necessary for a meeting of the Court shall be seven.

6. Notwithstanding any provision or requirement of Clause XXVI of the Charter a Special Resolution shall not be required for the making of any Emergency Statutes.

*Emergency Statutes made by the Court on the
29th May, 1941.*

1. During the period of the present emergency and for twelve months thereafter the Council shall have power:—

- (a) to postpone the election or admission or appointment to any office or emolument in the University ;
- (b) to suspend any such office or emolument which may be or may become vacant ;
- (c) to accumulate any income which, by reason of any such postponement or suspension as aforesaid, is not being received by any person ;
- (d) to apply for any purpose connected with the University the income of any University fund or property which is not for the time being actually being paid to a beneficiary, including any income

not so being paid by reason of any such postponement, suspension or accumulation as aforesaid ;

- (e) to suspend or modify any obligation to make payments to any sinking fund, amortisation fund, depreciation fund, reserve fund, endowment fund, pension or superannuation fund, or any similar fund in or connected with the University, which the University may have undertaken by internal resolution.

2. During the period of the present emergency and for twelve months thereafter :—

- (a) Notwithstanding anything to the contrary contained in any law of the University it shall not be required to summon a meeting of Convocation at least once in every year. A meeting of Convocation shall be summoned only if the Standing Committee of Convocation so determine by a majority of two-thirds of such Committee present and voting.
- (b) The powers of the Convocation shall be exercised by the Standing Committee of the Convocation and any vacancies which may occur in the membership of the Standing Committee through death, resignation or expiry of the term of office for which a member was elected may be filled by co-optation or in such other manner as the said Committee shall decide.

3. During the period of the present emergency and for twelve months thereafter it shall be competent for the Council to make such provision as it may deem necessary for the exercise of the powers and the performance of the duties attached to any office in the University (including the power of the Chancellor or the Vice-Chancellor to confer Degrees) by the holder of any other such office, or by any member of the staff of the University or of the court, council or senate of the University.

The power hereby conferred on the Council shall be in addition to all other powers the Council or the Court may have to appoint deputies or acting or temporary holders of such office.

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.

Affiliated Colleges

THE COLLEGE OF THE RESURRECTION, MIRFIELD (May 18, 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 B.A. Ordinary or Honours degree.

THE TECHNICAL COLLEGE, HUDDERSFIELD. (March 2, 1906). By resolution of the Council, attendance upon certain classes in this College is recognised as exempting from attendance upon classes in the University in the first year of the courses required for the degrees of B.A., B.Sc. (including Engineering), and M.B. and Ch.B.

RAWDON COLLEGE, RAWDON. (May 17, 1916). By resolution of the Council (October 1, 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 B.A. (Ordinary and Honours Degree).

DIOCESAN TRAINING COLLEGE, YORK. (June 15, 1921) Attendance upon certain courses of study of this College is recognised as exempting from Intermediate (or Introductory) courses in the University in the first of the years of study for the B.A. and B.Sc. (Ordinary and Honours) degrees.

LEEDS TECHNICAL COLLEGE—PRINTING DEPARTMENT.
(December 20th, 1922). Affiliation granted with a view to the recognition of classes at the Printing Department as part of the course for the degree of B.Com.

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

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

VIII. RECOGNITION OF VICTORIA UNIVERSITY
COURSES AND EXAMINATIONS

(a) 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 January 1, 1905, as equivalent to corresponding courses and examinations in the University of Leeds.

(b) 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.

(c) A student of the Yorkshire College, who before December 31, 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

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

(b) 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.

(c) Undergraduates of the University of Leeds who are pursuing an approved course of instruction in any of the Honours Schools of the University may be allowed to count

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

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

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

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

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

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

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

2. As to Associates of the Yorkshire College :

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

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

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

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

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

XI. STANDING OF CERTAIN GRADUATES IN PROCEEDING TO HIGHER DEGREES

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

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

XII. AWARD OF DEGREES BY SENATE

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

XIII. AWARD OF DEGREES BY COUNCIL

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

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

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

XIV. JOINT MATRICULATION BOARD AND JOINT COMMITTEES

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

1. Four members of the Joint Matriculation Board of the Universities of Manchester, Liverpool, Leeds, Sheffield, and Birmingham.
2. Three members of a Joint Committee of the Universities of Manchester, Liverpool, and Leeds, to consider objections which may be raised by one or more of those Universities, to Statutes or Ordinances proposed by any of them, or by the University of Sheffield.

XV. DIPLOMAS

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

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

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

XVI. REGULATIONS FOR PROCEDURE

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

XVII. FEES

The Council is hereby empowered, after giving the Senate an opportunity of reporting thereon, to appoint such Registration, Examination, Class, Laboratory, and other

fees to be paid by students and others as the Council may from time to time determine, and to increase, reduce or abolish the same.

XVIII. REGULATIONS FOR EXAMINATIONS

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

XIX. ADMISSION TO EXAMINATIONS

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

XX. EXTERNAL EXAMINERS

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

XXI. PRIZES

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

XXII. EXAMINATION OF SCHOOLS, AND EXTENSION LECTURES

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

XXIII. TENURE OF OFFICE OF DEANS OF FACULTIES

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

XXIV. TENURE OF OFFICE OF ADDITIONAL MEMBERS OF THE SENATE

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

XXV. REGISTER OF CONVOCATION

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

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

3. All persons admitted to degrees of this University prior to June 1st, 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 June 1st, 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 on payment of a fee of 10s. 6d.

XXVI. COMMUNICATIONS FROM COUNCIL TO CONVOCATION

Convocation shall receive from the Council the draft of any Ordinance proposed which, in the opinion of the Council, would affect the status, position, rights, or privileges of Convocation or the members thereof, and further Convocation, if it so desires, may record its

opinion on any draft Ordinance so submitted within one month from the date at which it has been received, and such opinion when recorded shall be taken into consideration by the Council.

XXVII. AEGROTAT DEGREE

If a candidate be prevented by illness or other sufficient cause from attending the whole or part of an examination for a degree, or from presenting any dissertation or thesis which may be required in connexion 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 of 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).

I. 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.

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

"The Professional Committee" means the Professional Committee formed in accordance with Articles 6 and 8 hereof.

"Member Training College" means a Training College which is a Constituent Member Institution under Article 3 (a) hereof.

2. TITLE AND OBJECTS : There shall be an Institute of Education to be known as the University of Leeds Institute of Education the purposes of which shall include the following :—

- (a) To further and to co-ordinate in the Area the provision for the training of teachers and of others preparing to engage in educational work ;
- (b) To promote and to provide facilities for the study of and research in education ;
- (c) To act as a centre of discussion and activity for teachers and others concerned with education in the Area ;
- (d) To perform such other functions as may be approved by the Senate and Council.

3. MEMBERSHIP : Membership of the Institute shall be both *Institutional and Individual* :—

(a) The Member Institutions shall be

(i) *Constituent Member Institutions* including :—

The Department of Education in the
University of Leeds

The City of Leeds Training College

The Yorkshire Training College of Housecraft

Bingley Training College

St. John's College, York

Ripon Training College.

Bretton Hall

The North Riding Training College

Huddersfield Training College.

(ii) *Associated Member Institutions* including :—

The City of Leeds College of Art
 The Department of Pædiatrics and Child Health, University of Leeds
 The Department of Physical Education, University of Leeds
 The Department of Psychology, University of Leeds
 The Department of Psychiatry, University of Leeds
 The Carnegie College of Physical Education and such other institutions as may be admitted by the Council on the recommendation of the Board, either as Constituent Members or as Associated Members.*

Any Member Institution may be permitted to withdraw from membership upon giving at least two years' notice to the Council and making provision satisfactory to the Board for the completion of the training of Registered Students of the Institute.

(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

*"Since 18th July, 1951, the following changes in and additions to the list of Member Institutions have taken place :

Ilkley College of Housecraft and Margaret McMillan Training College have been admitted as Constituent Member Institutions; the Teacher Training Department of the City of Leeds College of Art has become a Constituent Member Institution, and the whole College has in consequence ceased to be an Associate Member Institution; and the Department of Extra Mural Studies and Adult Education, The University of Leeds, has been admitted as an Associate Member Institution."

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 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, &c., in each or any of the Member Institutions and for that purpose to arrange if necessary with the Member Institutions for the secondment of members of their staffs.
- (j) To promote arrangements where desirable for the interchange of teachers between Member Institutions.
- (k) To promote arrangements, where desirable, for the interchange of individual students or groups of students between the Member Institutions.
- (l) To provide or co-operate in the provision of special courses for students in training dealing with particular aspects of educational work.
- (m) To provide or co-operate in the provision of Refresher Courses, Summer Schools and the like for teachers, youth leaders and others.
- (n) To encourage co-ordinated investigation into educational problems and to issue publications from time to time on educational matters.

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

5. OFFICERS : The Officers shall be :—

- (a) The Director of the Institute who shall be responsible to the Council for the work of the Institute. He shall be a Professor in the University appointed by the Council after a report from the Board upon such terms and conditions as the Council may determine.
- (b) The Deputy Director of the Institute who shall be authorised to act for the Director in the Director's absence and shall generally assist the Director in carrying out his duties. He shall be appointed by the Council after a report from the Board upon such terms and conditions as the Council may determine.
- (c) The Secretary of the Institute who shall be its executive officer and shall carry out such duties as may from time to time be assigned to him by the Director. He shall be appointed by the Council after a report from the Board upon such terms and conditions as the Council may determine.
- (d) The Clerk to the Board who shall be the Registrar of the University.
- (e) The Financial Officer to the Board who shall be the Bursar of the University.

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

7. THE BOARD OF THE INSTITUTE :

- (a) The Board shall consist of the following members:—
 - (i) The Pro-Chancellor *ex officio*.
 - (ii) The Vice-Chancellor of the University who shall be *ex officio* Chairman.
 - (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.
- (vii) To appoint such Committees or Sub-Committees as may be deemed necessary.
- (viii) To prescribe the mode of conducting the proceedings of the Board and the Professional Committee.
- (f) The Minutes of all meetings of the Board shall be submitted to the Senate and to the Council and the Board shall also furnish such other information relating to its proceedings and actions as may from time to time be required by the Senate or the Council.

8. THE PROFESSIONAL COMMITTEE :

- (a) The Professional Committee shall consist of the following members :—
 - (i) The Vice-Chancellor *ex-officio*.
 - (ii) The Director of the Institute who shall be Chairman *ex-officio*.
 - (iii) The Deputy Director of the Institute *ex-officio*.
 - (iv) The Principals of the Member Training Colleges, the Vice-Principals of mixed Member Training Colleges, the Warden of the Carnegie College of Physical Education and the Head of the University Department of Education *ex officio*, together with one other member of the staff of the University Department of Education nominated by the Head of that Department.
 - (v) Four members of the academic staff of the University appointed by the Senate.
 - (vi) One member of the staff (not the Principal or Head of each Constituent Member Institution to be appointed by the Board on the recommendation of the staff of that Institution.
 - (vii) One member of the staff of the Institute (not the Director or the Deputy Director) to be appointed by the Board on the recommendation of the staff of the Institute.
 - (viii) Two members nominated by the Yorkshire Association of Education Officers.
 - (ix) Such other persons, not exceeding six in number as may be appointed by the Board from time to time ; of these not more than four may be teachers in schools.
- (b) Members other than *ex officio* members will hold office for three years and will be eligible for reappointment.
- (c) Two assessors appointed by the Minister of Education shall be invited to attend each meeting of the Committee.

(d) The Professional Committee shall have the following powers :—

- (i) To direct the co-ordinating work of the Institute so far as this relates to instruction and education within the Area.
- (ii) To administer schemes for the award of Certificates in Education and for the recommendation of students to the Ministry of Education for the award of Qualified Teacher Status as provided in Article 4 (c) above.
- (iii) To administer schemes for the award of Diplomas as provided in Article 4 (d) above.
- (iv) To recommend persons for appointment as Internal Examiners.
- (v) To recommend persons for appointment as External Examiners.
- (vi) To report on any matter referred or delegated to it by the Board.
- (vii) To appoint such Boards of Studies, Committees and Panels as may be deemed necessary.

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

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

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

10. DISSOLUTION : The University, after giving not less than two years' notice of its intention, may dissolve the Institute of Education and in that event the premises, equipment and all assets of the Institute shall be the property of the University who shall discharge the liabilities in connection therewith and the premises, equipment and all assets of the Member Training Colleges shall be the property of the respective Training Colleges, who shall respectively discharge the liabilities in connection therewith.

THE UNIVERSITY OF LEEDS

Visitor

Her Majesty THE QUEEN

Chancellor

HER ROYAL HIGHNESS THE PRINCESS ROYAL,
C.I., G.C.V.O., G.B.E., LL.D.

Pro-Chancellor

Sir HUBERT STANLEY HOULDSWORTH, Q.C., D.Sc., LL.D.

Vice-Chancellor

CHARLES RICHARD MORRIS, M.A., LL.D.

Pro-Vice-Chancellor

Professor ARNOLD NIXON SHIMMIN, C.B.E., M.A.

Treasurer

The Hon. RUPERT EVELYN BECKETT, LL.D.

Dean of the Faculty of Arts

Professor ALEXANDER GILLIES, M.A., Ph.D.

Dean of the Faculty of Economics and Commerce

LEONARD GEORGE JOHNSON, B.A.

Dean of the Faculty of Law

GEOFFREY LOOSEMORE HAGGEN, M.A., B.C.L.

Dean of the Faculty of Science

JOHN WILLIAM BAKER, D.Sc., Ph.D., F.R.I.C.

Dean of the Faculty of Technology

SIDNEY GEORGE RICHARDSON, M.Sc., A.M.I.Mech.E.

Dean of the Faculty of Medicine

PERCIVAL JOHN MOIR, M.C., M.B., Ch.B., F.R.C.S.

Bursar

EDWIN JOSEPH BROWN, B.Com.

Registrar

JOHN VAUGHAN LOACH, B.Sc., Ph.D., F.R.I.C.

THE COURT

The CHANCELLOR

The PRO-CHANCELLOR

The VICE-CHANCELLOR

The TREASURER

Members nominated by the Crown

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The Rt. Rev. THE LORD BISHOP OF RIPON, M.C., M.A., D.D.

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R. F. BUTLER, Harrogate

W. HEMINGWAY, J.P., Leeds

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Rotherham

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FRANCIS ERIC TETLEY, D.S.O.
JOSEPH TURNER
MATTHEW WRIGHT

Representatives of Associations

	<i>Appointed by</i>		
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The Rev. Canon ARTHUR S. REEVE, M.A.	"	"	"
THOMAS GIRTIN, M.A.	"	"	"
Sir ROBERT WALEY COHEN, K.B.E.	"	"	"
Major MAURICE BEACHCROFT, O.B.E., M.A.	"	"	"
Captain JOHN GOAD	The Skinners' Company		
JOHN GREAVES BOND, B.A., M.I.Min.E.	The Drapers' Company		
CROYDEN MEREDITH WHITTAKER, D.Sc.	The Dyers' Company		
The Rev. C. DE COSTOBADIE	Wm. Akroyd's Foundation		
WALTER HARGREAVES, LL.D.	West Yorkshire Coal Owners' Association		
Vacant	Yorkshire Board of Legal Studies		

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A. B. CLEGG, M.A.	"	"
County Councillor N. GELDARD	"	"
County Councillor Mrs. J. SMITH	"	"
County Alderman J. FINEGAN	North Riding County Council	
County Alderman R. S. BUTTER- FIELD, O.B.E., M.C.	"	"
Lt.-Col. Sir JOHN DUNNINGTON- JEFFERSON, D.S.O., LL.D.	East Riding County Council	
County Alderman T. D. FENBY		
Alderman Sir GEORGE W. MARTIN, K.B.E., LL.D., J.P.	County Borough of Leeds	
Alderman Mrs. LILLIAN HAMMOND	"	"
Alderman DAVID BEEVERS, O.B.E., LL.D.	"	"
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Alderman B. RAMSEY.	. County Borough of Middlesbrough
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Alderman M. SCARGILL	. County Borough of Dewsbury
Alderman B. JOHNSON, J.P.	. County Borough of Wakefield

Representatives of University Bodies

(a) <i>The Faculties</i>	<i>Elected by</i>
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Miss A. LUMSDEN, M.A.	
M. R. R. DAVIES, Ph.D., LL.M., D.P.A.	} The Faculty of Law
Professor J. H. RICHARDSON, M.A., Ph.D.	
E. ROTHSTEIN, D.Sc., Ph.D. A.R.C.S.	} The Faculty of Economics and Commerce
R. D. PRESTON, B.Sc., Ph.D.	
J. P. DANBY, B.Sc., Ph.D.	} The Faculty of Science
E. E. CATON, M.Sc., A.M.I.Mech.E.	
Professor T. TALMAGE READ, F.R.F.P.S., F.D.S.R.C.S., L.R.C.P.	} The Faculty of Technology
R. A. HOLMAN, M.B., Ch.B.	
	} The Faculty of Medicine

(b) *Convocation.*

CECIL FREDERICK EXLEY, B.A., M.Ed.
 J. HAMMERTON, M.Sc.
 Mrs. R. E. TUNBRIDGE, M.Sc.
 C. S. WHEWELL, B.Sc., Ph.D., F.R.I.C., F.T.I.
 Miss H. E. DE C. WOODCOCK, B.A., M.B., Ch.B.

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(a) *Affiliated Institutions*

The Rev. RAYMOND RAYNES, M.A., Father Superior of the College of the Resurrection, Mirfield.

(b) *Other Universities*

Sir J. I. O. MASSON, M.B.E., D.Sc., LL.D., F.R.S., Vice-Chancellor of the University of Sheffield
 J. F. MOUNTFORD, M.A., D.Litt., Vice-Chancellor of the University of Liverpool.
 Professor H. B. CHARLTON, M.A., Litt.D. of the University of Manchester

(c) *Governing Body of each Training College admitted as a Member Institution of The University of Leeds Institute of Education*

- Alderman JOHN L. DAWSON, M.A., J.P., Huddersfield Training College
 Alderman J. FINEGAN, North Riding Training College, Scarborough
 Mrs. LAURA I. FITZPATRICK, Ilkley College of Housecraft.
 Councillor Mrs. A. M. M. HAPPOLD, M.A., City of Leeds Training College
 County Alderman HARRY HARDY, Bingley Training College
 County Councillor G. S. MASON, B.Sc., Bretton Hall Training College
 J. T. MULLEY, B.Sc., M.Ed., Carnegie College of Physical Education, Leeds
 Lt.-Col. A. C. SHEEPSHANKS, D.S.O., M.A., Ripon Training College

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 H. J. DAVIS, M.A., Head Master of the Grammar School, Whitby
 R. B. GRAHAM, M.A., Head Master of the Grammar School, Bradford
 D. ST. J. C. GURNEY, B.A., M.Ed., Head Master of Royds Hall Grammar School, Huddersfield
 Miss N. J. HENDERSON, M.A., Head Mistress of Allerton Girls' High School, Leeds
 Miss M. M. MACDERMOTT, M.A., Ph.D., Head Mistress of the Pontefract and District Girls' High School, Pontefract
 J. S. NEWBY, M.A., Head Master of the Grammar School, Ilkley
 J. WILDE, M.A., B.Sc., Head Master of the Grammar School, Otley

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Brigadier KENNETH HARGREAVES, M.B.E., T.D., Leeds
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Councillor Miss MARY PICKLES, Halifax
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Alderman J. E. TOLSON, J.P., Dewsbury
Alderman J. S. WALSH, LL.B., Leeds
W. A. WIGHTMAN, M.A., F.R.I.C., Leeds
LESLIE G. WILSON, O.B.E., A.T.I., Gildersome, near Leeds
E. J. L. WOOLER, M.B.E., J.P., Leeds

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G.B.E., LL.D., *Chancellor*, Harewood House, Harewood,
Leeds
- SIR HUBERT STANLEY HOULDSWORTH, Q.C., D.Sc., LL.D., *Pro-
Chancellor*, The National Coal Board, Hobart House,
Grosvenor Place, London, S.W.1
- CHARLES RICHARD MORRIS, M.A., LL.D., *Vice-Chancellor*,
Vice-Chancellor's Lodge, North Hill Road, Headingley,
Leeds, 6
- THE HON. RUPERT E. BECKETT, LL.D., *Treasurer*, Westminster
Bank Limited, 8, Park Row, Leeds, 1
- Professor ARNOLD N. SHIMMIN, C.B.E., M.A., *Pro-Vice-Chancellor*,
"Hebans," Wheatley Lane, Ben Rhydding, Ilkley

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Appointed by

- | | |
|--|-----------------------------|
| County Alderman W. M. HYMAN,
9, Victoria Road, Harrogate | West Riding County Council |
| County Councillor J. FULLER
SMITH, 28, Carr Road, Cal-
verley, near Leeds | " " |
| County Alderman R. S. BUTTER-
FIELD, O.B.E., M.C., High-
field, Haxby, York | North Riding County Council |
| County Alderman Lt. Col. Sir
JOHN DUNNINGTON-JEFFER-
SON, D.S.O., D.L., LL.D.,
Thicket Priory, Thorganby,
York | East Riding County Council |
| Alderman SYDNEY BEEVERS, 52,
Spencer Place, Leeds, 7 | County Borough of Leeds |
| Alderman J. S. WALSH, LL.B.,
Vince's Chambers, Victoria
Square, Leeds 1 | " " " |
| Alderman Mrs. K. CHAMBERS,
C.B.E., LL.D., J.P., The
Croft, Plumptre End, Wrose
Road, Bradford | County Borough of Bradford |
| Alderman R. SCRUTON, The
Croft, Grange Garth, York | County Borough of York |
| Alderman DAVID C. LISTER, J.P.,
81, Strathmore Avenue,
Kingston-upon-Hull | County Borough of Hull |

- Councillor Miss MARY PICKLES, County Borough of Halifax
54, Warley Road, Halifax
- Alderman T. SMAILES, 11, Park County Borough of Hudders-
Drive, Huddersfield field
- Alderman B. RAMSEY, 27, Thorn- County Borough of Middles-
field Road, Linthorpe, brough
Middlesbrough
- Alderman BURLEY JOHNSON, County Borough of Wakefield
J.P., 30, Leeds Road, Wake-
field
- Alderman J. E. TOLSON, J.P., County Borough of Dewsbury
52, Bywell Road, Dewsbury
- Alderman EDWARD SHEERIEN, County Borough of Barnsley
J.P., 26, Cope Street, Barnsley

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Leeds, 6
- Brigadier KENNETH HARGREAVES, M.B.E., T.D., 21, The Calls,
Leeds, 2

Members elected by the Senate

- Professor G. T. CLAPTON, M.A., Foxhill, Weetwood Lane, Leeds, 6
(to retire in 1953)
- Professor E. G. COX, T.D., D.Sc., F.Inst.P., F.R.I.C., 51, Weet-
wood Lane, Leeds, 6 (to retire in 1953)
- Professor R. H. EVANS, D.Sc., Ph.D., M.I.C.E., M.Am.Soc.E.,
M.I.Mech.E., M.I.Struct.E., "Dilwyn," 22, St. Anne's Road,
Headingley, Leeds 6
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Harrogate
Professor J. B. SPEAKMAN, D.Sc., F.R.I.C., F.T.I., 181, Otley
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Hollin Lane, Headingley, Leeds, 6

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ONE NOMINEE OF THE OLD STUDENTS' ASSOCIATION

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Road, Leeds, 6

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Leeds, 6

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Leeds, 6

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G. F. SEDGWICK, Blenheim Institute, Blackman Lane, Leeds, 2

C. STEAD, c/o Working Men's Institute, Berking Avenue, York Road, Leeds, 9

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ONE REPRESENTATIVE OF DEVONSHIRE HALL

TWO REPRESENTATIVES OF THE COMMITTEE OF THE INSTITUTE

THE SENATE

(For addresses see pages 172-203)

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THE VICE-CHANCELLOR	1948
Professor R. N. ARMFELT, M.A. (<i>Education</i>)	1949
Professor W. T. ASTBURY, M.A., Sc.D., F.Inst.P., F.R.S., (<i>Biomolecular Structure</i>)	1945
Professor W. A. BAIN, B.Sc., Ph.D., F.R.S.E. (<i>Pharmacology</i>)	1946
Professor W. BRADLEY, D.Sc., Ph.D. (<i>Colour Chemistry and Dyeing</i>)	1948
Professor A. J. BROWN, M.A., D.Phil. (<i>Economics</i>)	1947
Professor DONALD BURTON, M.B.E., D.Sc., F.R.I.C. (<i>Leather Industries</i>)	1951
Professor G. W. CARTER, M.A., A.M.I.E.E., Mem.A.I.E.E. (<i>Electrical Engineering</i>)	1946
Professor FREDERICK CHALLENGER, D.Sc., Ph.D., F.R.I.C. (<i>Organic Chemistry</i>)	1930
Professor D. CHAMBERLAIN, Ch.M., F.R.C.S. (<i>Surgery</i>)	1946
Professor GUY P. CHAPMAN, O.B.E., M.C., M.A., B.Sc. (<i>Modern History</i>)	1945
Professor D. G. CHRISTOPHERSON, O.B.E., B.A., D.Phil., S.M., A.M.I.C.E., A.M.I.Mech.E. (<i>Mechanical Engineering</i>)	1949
Professor G. T. CLAPTON, M.A. (<i>French Language and Literature</i>)	1949
Professor ANDREW M. CLAYE, M.D., F.R.C.S., F.R.C.O.G. (<i>Obstetrics and Gynaecology</i>)	1931
Professor NORMAN M. COMBER, D.Sc. (<i>Agricultural Chemistry</i>)	1924
Professor T. G. COWLING, M.A., D.Phil., F.R.S. (<i>Applied Mathematics</i>)	1948
Professor E. G. COX, D.Sc., F.Inst.P., F.R.I.C. (<i>Inorganic and Physical Chemistry</i>)	1945
Professor WILLIAM S. M. CRAIG, B.Sc., M.D., F.R.C.P.E. (<i>Pædiatrics and Child Health</i>)	1946
Professor F. S. DANTON, B.A., B.Sc., Ph.D. (<i>Inorganic and Physical Chemistry</i>)	1950
Professor I. G. DAVIES, M.D., M.R.C.P., D.P.H. (<i>Public Health</i>)	1947
Professor J. A. DAVISON, M.A. (<i>Greek Language and Literature</i>)	1951
Professor J. R. DENNY, M.B.E., M.A., B.Mus. (<i>Music</i>)	1950
Professor BONAMY DOBRÉE, O.B.E., M.A. (<i>English Literature</i>)	1936
Professor ARCHIBALD DURWARD, M.D., F.R.S.E. (<i>Anatomy</i>)	1936

	Date of Appointment.
Professor R. H. EVANS, D.Sc., Ph.D., M.I.C.E., M.Am.Soc.C.E., M.I.Struct.E., M.I.Mech.E. (<i>Civil Engineering</i>)	1946
Professor F. S. FOWWEATHER, M.Sc., M.D., F.R.C.P., D.P.H., F.R.I.C. (<i>Chemical Pathology</i>)	1946
Professor A. GILLIES, M.A., D.Phil. (<i>German</i>)	1945
Professor F. C. HAPFOLD, Ph.D., D.Sc. (<i>Biochemistry</i>)	1946
Professor STANLEY J. HARTFALL, B.Sc., M.D., F.R.C.P. (<i>Clinical Medicine</i>)	1949
Professor J. W. HARVEY, M.A. (<i>Philosophy</i>)	1932
Professor A. HEMINGWAY, M.Sc., M.B., Ch.B. (<i>Physiology</i>)	1936
Professor P. S. JAMES, M.A. (<i>Law</i>)	1952
Professor A. S. JOHNSTONE, M.D., F.R.C.S.E., D.M.R.E. (<i>Radiodiagnosis</i>)	1948
Professor W. Q. KENNEDY, D.Sc. (<i>Geology</i>)	1945
Professor D. R. MACCALMAN, M.D. (<i>Psychiatry</i>)	1948
Professor JOHN MCGREGOR, B.Sc., N.D.A., N.D.D. (<i>Agriculture</i>)	1934
Professor IRENE MANTON, B.A., Sc.D., Ph.D. (<i>Botany</i>)	1945
Professor G. P. MEREDITH, M.Sc., M.Ed. (<i>Psychology</i>)	1949
Professor W. R. NIBLETT, B.A., B.Litt. (<i>Education— Director of the Institute of Education</i>)	1949
Professor C. L. OAKLEY, B.Sc., M.D., B.S., M.R.C.S., L.R.C.P. (<i>Bacteriology</i>)	1952
Professor HAROLD ORTON, M.A., B.Litt. (<i>English Language and Mediaeval English Literature</i>)	1946
B. S. PAGE, M.A. (<i>Librarian</i>)	1949
Professor RICHARD D. PASSEY, M.C., M.D., D.P.H. (<i>Experimental Pathology and Cancer Research</i>)	1926
Professor JOHN LE PATOUREL, M.A., D.Phil. (<i>Mediaeval History</i>)	1945
Professor R. F. E. W. PEEL, M.B.E., M.A. (<i>Geography</i>)	1951
Professor C. J. POLSON, M.D., M.R.C.S., F.R.C.P., Barrister-at-Law (<i>Forensic Medicine</i>)	1947
Professor T. TALMAGE READ, F.R.F.P.S., L.R.C.S., L.R.C.P., F.D.S., R.C.S. (<i>Clinical Dental Surgery</i>)	1931
Professor J. K. S. REID, M.A., B.D. (<i>Theology</i>)	1952
Professor JOHN H. RICHARDSON, M.A., Ph.D. (<i>Industrial Relations</i>)	1930
Professor A. L. ROBERTS, Ph.D. (<i>Coal Gas and Fuel Industries</i>)	1947
Professor HAROLD S. RUSE, M.A., D.Sc. (<i>Pure Mathe- matics</i>)	1946
Professor A. N. SHIMMIN, C.B.E., M.A. (<i>Social Science</i>)	1945
Professor ERIC A. SPAUL, D.Sc., Ph.D. (<i>Zoology</i>)	1933
Professor JOHN B. SPEAKMAN, D.Sc., F.R.I.C., F.T.I. (<i>Textile Industries</i>)	1939
Professor F. W. SPIERS, B.Sc., Ph.D. (<i>Medical Physics</i>)	1950
Professor EDMUND C. STONER, Sc.D., F.R.S. (<i>Theoretical Physics</i>)	1939

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Professor HUBERT W. SYMONS, M.B., Ch.B., F.R.C.S. (<i>Clinical Surgery</i>)	1940
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Professor J. T. WHETTON, D.S.O., O.B.E., M.Sc. (<i>Mining</i>)	1945
Professor A. V. WILLIAMSON, M.A. (<i>Geography</i>)	1944
Professor R. A. WILLIS, M.D., D.Sc., F.R.C.P. (<i>Pathology</i>)	1950
Professor J. G. WILSON, M.A., Ph.D. (<i>Physics</i>)	1952
Professor EDWARD J. WOOD, M.A. (<i>Latin</i>)	1938
LADY OGILVIE, M.A. (<i>Tutor of Women Students</i>) (<i>Annual appointment</i>)	1952
S. G. RAYBOULD, B.Sc., Ph.D. (<i>Adult Education and Extra-Mural Studies</i>) (<i>Annual appointment</i>)	1952
J. W. BAKER, D.Sc., Ph.D. (<i>Chemistry</i>) (<i>Annual appoint- ment</i>)	1952
T. V. BENN, B.A., Ph.D. (<i>French</i>) (<i>Annual appointment</i>)	1952
R. F. BROWN, M.A., Ph.D. (<i>Spanish</i>) (<i>Annual appoint- ment</i>)	1952
H. HENSON, D.Sc., Ph.D. (<i>Zoology</i>) (<i>Annual appointment</i>)	1952
S. G. RICHARDSON, M.Sc., A.M.I.Mech.E. (<i>Mechanical Engineering</i>) (<i>Annual appointment</i>)	1952
H. C. VERSEY, D.Sc., F.G.S. (<i>Geology</i>) (<i>Annual appoint- ment</i>)	1952

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- W. RHYS ROBERTS, 1904-23
H. A. ORMEROD, 1923-28.
WALTER M. EDWARDS, 1928-1950.

Latin :

- B. M. CONNAL, 1904-26.
HUGH STEWART, 1926-29.
PETER S. NOBLE, 1930-38.

English Literature :

- CHARLES E. VAUGHAN, 1904-13.
GEORGE S. GORDON, 1913-22.
LASCELLES ABERCROMBIE, 1922-29.
F. P. WILSON, 1929-36.

English Language :

- FREDERIC W. MOORMAN, 1912-18.
J. R. R. TOLKIEN, 1924-26 (Reader 1919-24).
E. V. GORDON, 1926-31.
BRUCE DICKINS, 1931-46.

French Language and Literature :

- PAUL BARBIER, 1903-38.
IVOR D. O. ARNOLD, 1938-1949.

German Language and Literature :

- ALBERT W. SCHÜDDEKOPF, 1904-16.
CHARLES E. GOUGH, 1924-39.
RONALD PEACOCK, 1939-1945.

Russian Language and Literature :

- J. KOLNI BALOZKY (Lecturer) 1918-1939.
ROLF SHAFTLIN (Lecturer) 1947-1951.

Spanish Language and Literature :

- PEDRO PENZOL (Lecturer) 1918-1945.

History :

- ARTHUR J. GRANT, 1904-27.
A. HAMILTON THOMPSON, 1924-39.
A. S. TURBERVILLE, 1929-1945.
(Reader) 1927-1929.
D. DOUGLAS, 1939-1945.

Philosophy :

- C. M. GILLESPIE, 1912-32.
(Lecturer), 1904-12.

Philosophy and History of Religion :

- E. O. JAMES, 1933-1945.

Theology :

- L. E. BROWNE, 1946-1952.

Economic and Political Science :

J. H. CLAPHAM, 1904-8.
D. H. MACGREGOR, 1908-19
J. H. JONES, 1919-46.

Geography :

C. B. FAWCETT (Reader), 1920-28.
(Lecturer), 1919-20.

Education :

JAMES WELTON, 1904-16.
JOHN STRONG, 1919-33.
FRANK SMITH, 1933-47.

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J. D. IVOR HUGHES, 1919-1951.

Mathematics :

LEONARD J. ROGERS, 1904-19
WILLIAM P. MILNE, 1919-1946.
SELIG BRODETSKY (*Applied Mathematics*), 1924-48.

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WILLIAM H. BRAGG, 1909-14.
RICHARD WHIDDINGTON, 1919-1951.

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R. W. WHYTLAW-GRAY, 1923-1945.

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MEREDITH G. EVANS, 1939-49.

Organic Chemistry :

JULIUS B. COHEN, 1904-24.
CHRISTOPHER K. INGOLD, 1924-30.

Biology :

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WALTER GARSTANG, 1907-33.

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J. H. PRIESTLEY, 1911-1945.

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ROBERT G. S. HUDSON, 1939-40.

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WILLIAM T. DAVID, 1922-48.

Electrical Engineering :

G. D. A. PARR (Lecturer), 1904-14.
EDWARD L. E. WHEATCROFT, 1926-40.

Colour Chemistry and Dyeing :

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A. G. PERKIN, 1916-26.

F. M. ROWE, 1926-46.

Leather Industries :

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EDMUND STIASNY, 1913-14.

DOUGLAS McCANDLISH, 1919-49.

WILLIAM R. ATKIN, 1949-50.

Coal Gas and Fuel Industries :

WILLIAM ARTHUR BONE, 1906-12.

JOHN W. COBB, 1912-38.

D. T. A. TOWNEND, 1938-46.

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ERNEST L. HUMMEL, 1913-19.

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ALDRED F. BARKER, 1914-33.

ALBERT T. KING, 1933-39.

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ROBERT S. SETON, 1904-32.

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T. WARDROP GRIFFITH, 1904-10.

JOHN KAY JAMIESON, 1910-36.

Physiology :

DE BURGH BIRCH, 1904-17.

HENRY S. RAPER, 1917-23.

W. F. SHANKS, 1923-26.

B. A. MCSWINEY, 1926-36.

Pathology and Bacteriology :

ALBERT S. LEYTON, 1904-17.

MATTHEW J. STEWART (*Pathology*), 1918-1950.J. W. MCLEOD (*Bacteriology*), 1922-1952.*Medicine :*

A. G. BARRS, 1904-10.

T. WARDROP GRIFFITH, 1910-25.

W. H. MAXWELL TELLING, 1925-32.

G. W. WATSON, 1932-37.

W. MACADAM, 1937-46.

Clinical Medicine :

A. G. BARRS, 1910-20.

G. W. WATSON, 1925-32.

R. A. VEALE, 1933-34.

W. MACADAM, 1934-37.

J. le F. C. BURROW, 1937-48.

Diseases of Children :

CHARLES W. VINING, 1927-46.
(Lecturer) 1922-27.

Surgery :

H. LITTLEWOOD, 1904-10
R. LAWFORD KNAGGS, 1910-19
SIR BERKELEY G. A. MOYNIHAN, 1925-27.
J. F. DOBSON, 1927-33
HAROLD COLLINSON, 1933-36
ETHELBERT R. FLINT, 1936-40.
P. J. MOIR, 1940-46.

Clinical Surgery :

SIR BERKELEY G. A. MOYNIHAN, 1910-25
J. F. DOBSON, 1925-27
HAROLD COLLINSON, 1927-33
A. RICHARDSON, 1933-34.
ETHELBERT R. FLINT, 1934-36.
L. R. BRAITHWAITE, 1936-38.

Obstetrics and Gynaecology :

CHARLES J. WRIGHT, 1904-8.
J. B. HELLIER, 1908-18 (Lecturer in Gynaecology, 1904-8).
E. O. CROFT, 1918-23 (Lecturer in Gynaecology, 1908-18).
C. OLDFIELD, 1923-30 (Lecturer in Gynaecology, 1918-23).
W. GOUGH, 1931-36.

Pharmacology and Therapeutics :

EDMUND F. TREVELYAN, 1905-08.
(Lecturer, 1904-05).
HENRY JOHNSTONE CAMPBELL, 1908-19.
R. A. VEALE, 1925-32.

Public Health :

J. SPOTTISWOODE CAMERON, 1904-15.
W. ANGUS, 1917-19.
J. JOHNSTONE JERVIS, 1920-47.

Forensic Medicine :

HENRY JOHNSTONE CAMPBELL, 1904-8.
F. W. EURICH, 1908-32.
W. H. MAXWELL TELLING, 1932-38.
P. L. SUTHERLAND, 1938-46.

Mental Diseases and Psychiatry.

W. BEVAN-LEWIS, 1908-10.
(Lecturer, 1904-08).
J. SHAW BOLTON, 1911-34.
M. J. MCGRATH, 1935-46.
(Lecturer).
HENRY V. DICKS, 1946-48.

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(see Page 168)

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<i>Senior Lecturer and Superintendent of the Inorganic and Physical Chemistry Laboratories :</i>	J. HUME, B.Sc., <i>Edinburgh</i> , A.R.I.C.
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<i>Brotherton Research Assistant :</i>	Vacant
<i>Leverhulme Research Fellow :</i>	D. C. PEPPER, B.Sc., <i>London, Ph.D., Cambridge</i>
<i>National Research Council Post-doctoral Fellow :</i>	R. H. BETTS, Ph.D., <i>McGill</i>
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<i>Demonstrator : (part-time).</i>	Mrs. R. E. TUNBRIDGE, M.Sc., <i>Leeds</i>
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F. D. C. HENRY, B.Sc., *London*, A.M.I.C.E.,
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A.M.I.E.E.
- Lecturers in Electrical Engineering :* T. G. BRIDGWOOD, B.Sc., Ph.D., *Leeds*,
A.M.I.E.E.
A. N. GREENWOOD, M.A., *Cambridge*
G. S. BRAYSHAW, B.Sc., Ph.D., *London*,
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T.D., M.Sc., *Leeds and Durham*
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- Lecturer in Dressing of Minerals :* A. JOWETT, B.Sc., Ph.D., *Leeds*
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- Lecturer in Mining and Mine Surveying :* H. J. KING, B.Sc., *London*, A.M.I.Min.E.
- Assistant Lecturer in Mine Surveying :* G. M. HABBERJAM, B.Sc., Ph.D., *Leeds*,
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- Hugh Wood Memorial Research Fellow in Mining :* Vacant

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- Senior Mechanic :* G. R. BARROWS

Coal Gas and Fuel Industries with Metallurgy and Chemical Engineering

(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 department has the advantage of co-operation with the Institution of Gas Engineers in research supported by the Institution and guided by a Joint Committee of the Institution and the University.)

- Livesey Professor of* A. L. ROBERTS, B.Sc., Ph.D., *Leeds*
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 M.Inst.F.
Lecturer in Gas Chemistry : J. C. MACRAE, B.Sc., *Glasgow*, F.R.I.C.,
 M.Inst.F.
Lecturer (part-time) in Gas Engineering : J. W. WOOD, M.Sc.Tech. *Manchester*,
 F.R.I.C., A.M.Inst.Gas E.

Assistant Lecturer in Gas Engineering : Vacant

Assistant Lecturer in Fuel Technology : Vacant

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Lecturer in Chemical Engineering : N. L. FRANKLIN, M.Sc., *Leeds*
Assistant Lecturer in Chemical Engineering : Vacant

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 K. J. IRVINE, B.Sc., Ph.D., *Leeds*

Assistant Lecturer (temporary) in Metallurgy : R. HAYNES, B.Met., Ph.D., Sheffield, L.I.M.

I.C.I. Research Fellow : R. SHUTTLEWORTH, B.Sc., Leeds, Ph.D., Bristol

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LECTURER—

(Honorary) : F. J. DENT, Ph.D., D.Sc., Leeds, M.Inst.Gas E.

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Miss E. M. PARRIS

Senior Mechanic : R. METCALF

Senior Laboratory Steward : G. WADSWORTH

Assistant Lecturer in Process Instrumentation : A. POLLARD, B.Sc., Leeds, A.R.I.C.

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- Manufacture of Coal Gas :* F. S. CHARNLEY, B.Eng., A.M.I.C.E.
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- Refractory Materials :* A. T. GREEN, O.B.E., D.Sc., F.R.I.C.,
F.Inst.P., Hon.M.Inst.Gas E.,
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(Endowed by the Clothworkers' Company of the City of London)

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- Professor of Biomolecular Structure and Honorary Reader in Textile Physics :* Professor W. T. ASTBURY, M.A., Sc.D.,
Cambridge, D.Sc., Strasbourg, F.Inst.P.,
F.R.S., Member of Royal Society of
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<i>Lecturer in Textile Chemistry :</i>	J. W. BELL, B.Sc., Ph.D., <i>Leeds</i>
<i>Temporary Lecturer in Cloth Analysis and Cloth Structure :</i>	D. YOUNG, A.T.I.
<i>Assistant Lecturer in Textile Industries :</i>	G. BROOK, B.Sc., <i>Leeds</i>
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<i>Failsforth Research Fellow :</i>	G. W. MADARASZ, B.Sc., Tech., <i>Manchester</i> , Ph.D., <i>Leeds</i>
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<i>Woollen Spinning :</i>	
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<i>Handloom Weaving :</i>	H. P. HIGGINS
<i>Cloth Finishing :</i>	H. WOOD

<i>Instrument Makers and Draughtsmen :</i>	A. ROBINSON E. A. MATHER
<i>Director of Research Students at Torridon :</i>	A. B. D. CASSIE, M.A., D.Sc., Ph.D., Edinburgh, F.Inst.P.

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<i>Senior Lecturer in Dyeing :</i>	C. L. BIRD, M.Sc., Leeds, F.R.I.C.
<i>Research Lecturer in Colour Chemistry and Dyeing :</i>	F. K. SUTCLIFFE, M.Sc., Manchester, Ph.D., Leeds
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<i>Lecturer in Colour Chemistry :</i>	A. T. PETERS, D.Sc., Ph.D., Manchester, A.Mus.T.C.L.
<i>Lecturer on Lakes and Pigments :</i>	Vacant
<i>Lecturer in Dyeing :</i>	C. B. STEVENS, B.Sc., Ph.D., Leeds
<i>Brotherton Research Fellow in Physical Chemistry :</i>	G. C. EASTY, B.Sc., Ph.D., London
<i>Bradford Dyers' Association Research Fellow :</i>	Vacant
<i>Assistant in Dyeing :</i>	F. MANCHESTER, B.Sc., Leeds
<i>Research Assistant :</i>	L. J. WATKINSON, M.Sc., Leeds
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<i>Senior Mechanic :</i>	E. H. J. CLISSOLD
<i>Assistant Dyer :</i>	J. E. HALLOWAYS

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(Assisted by the Skinners' Company of the City of London
and by Members of the Leather Trades)

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<i>Lecturers :</i>	J. P. DANBY, B.Sc., Ph.D., Leeds R. REED, M.Sc., Manchester, Ph.D., Leeds

Supervisor of the Experimental Tannery :	J. SCHOLTZ
Clerk :	Miss ELISABETH J. DENTON
Senior Laboratory Steward :	A. TASKER

Procter International Research Laboratory

(Endowed in 1914 by public subscription to commemorate
the services rendered by the late Professor H. R. Procter
to Science and the Leather Industry)

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Research Assistant :	M. C. THOMPSON, B.Sc., Leeds

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Head of the Department :	Professor N. M. COMBER, D.Sc., London, A.R.C.S., F.R.I.C.
Clive Behrens Lecturer :	Vacant

AGRICULTURE—

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Senior Lecturers :	T. G. BOAZ, M.B.E., M.A., Dip. Agric., Cambridge R. HOLLIDAY, B.Sc., Leeds
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Lecturer and Farm Director :	J. R. BARROWMAN, B.Sc., Glasgow, N.D.A., N.D.D.
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Assistant Lecturer :	C. W. BRAMLEY, B.Sc., Dip. Agric., Leeds
Temporary Assistant	Vacant

Lecturer in Crop
Husbandry and
Farm Machinery :

Demonstrator :	L. E. CROFT, B.Sc., Dip. Agric., Leeds
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AGRICULTURAL

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Lecturer :	A. N. BARKER, M.Sc., Ph.D., Leeds

AGRICULTURAL

BOTANY—

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Research Assistant :	Vacant
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- Clerk :* Miss SHEILA M. YEADON
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London, F.R.I.C.
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*J. DAWSON, M.Sc., M.B., Ch.B., *Leeds*
*B. A. KILBY, M.A., Ph.D., *Cambridge*,
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A.R.I.C.
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- Research Fellow in Biochemistry and Medicine :* T. J. BOWEN, M.A., B.Sc., *Oxford*,
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A. HAKIM, M.Sc., *Beirut*, Ph.D., *Geneva*
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- Senior Laboratory Attendant :* L. H. DAVIS

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Lecturer in Pharmacy :	J. G. DARE, Ph.D., <i>Leeds</i> , Ph.C., M.P.S.
Lecturer in Pharmacognosy :	G. A. NELSON, Ph.C., M.P.S., F.L.S.
Demonstrator in Pharmacology :	Vacant
Research Assistants :	Miss JEAN E. BATTY, B.Sc., <i>Leeds</i> Miss BARBARA G. BROWN, B.Sc., <i>Leeds</i>
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Pathology

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Reader in Clinical Pathology :	*D. H. COLLINS, O.B.E., M.D., <i>Liverpool</i> , M.R.C.P.
Senior Lecturer in Pathology :	*R. CARMICHAEL, M.B., Ch.B., <i>Edinburgh</i>
Lecturers in Pathology :	*W. GOLDIE, M.A., M.B., Ch.B., <i>Aberdeen</i> , M.R.C.P., <i>London</i> and <i>Edinburgh</i> , Pathologist to St. James's Hospital *C. J. E. WRIGHT, M.D., M.Sc., <i>Leeds</i> T. W. SUTHERLAND, M.B., Ch.B., <i>Leeds</i> I. M. P. DAWSON, M.A., M.B., B.Chir., <i>Cambridge</i> , M.R.C.P., M.R.C.S.
Lecturer in Neuropathology :	*A. F. J. MALONEY, B.Sc., M.B., Ch.B., M.R.C.P., <i>Edinburgh</i>
Lecturer in Pathology of Industrial Diseases :	Vacant
Resident Pathologist to the Leeds General Infirmary :	†

*Member of the Board of the Faculty of Medicine.

†Duties at present being undertaken by Dr. Czekalowski and Dr. Howarth.

- Lecturer (part-time) in Gynæcological Pathology :* N. LISSIMORE, M.D., *Leeds*
- Hon. Demonstrator in Medical Pathology :* *I. MACPHERSON, M.D., *Leeds*, F.R.C.P.
- Hon. Demonstrator in Surgical Pathology :* *L. N. PYRAH, M.Sc., Ch.M., *Leeds*, F.R.C.S.
- Honorary Demonstrator in Clinical Pathology :* J. A. V. SHONE, L.M.S.S.A., M.R.C.S.
- Hon. Demonstrator in Neuropathology :* *H. G. GARLAND, T.D., M.D., *Leeds*, F.R.C.P.
- Research Assistant :* D. SUNDARASIVARAO, M.B., B.S., *Andhra*
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- Senior Laboratory Steward :* W. H. LAWSON, A.I.M.L.T., F.R.M.S.

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- Lecturers :* *W. N. ANDERSON, B.Sc., Ph.D., *Belfast*
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D. E. KIDDER, B.Sc., *London*, A.R.I.C.
- Demonstrators :* Mrs. MARY McMILLAN, B.Ph., *London*, M.B., Ch.B., Ph.D., *Leeds*
One vacancy
- Clerk :* Mrs. E. WILD
- Senior Laboratory Steward :* A. RUMFITT, F.I.M.L.T.

Bacteriology

- Brotherton Professor of Bacteriology :* *C. L. OAKLEY, M.D., B.S., B.Sc., *London*, M.R.C.S., L.R.C.P.
- Reader in Clinical Bacteriology :* *J. GORDON, M.D., *Leeds*, M.R.C.P., D.P.H.
- Reader in Public Health Bacteriology :* *K. I. JOHNSTONE, B.Sc., Ph.D., M.B., *Leeds*

*Member of the Board of the Faculty of Medicine.

- Senior Lecturer in Bacteriology :* *K. S. ZINNEMANN, M.D., *Frankfurt*
- Lecturers in Bacteriology :* *G. M. WILLIAMSON, M.B., Ch.B., *Leeds*
D. E. NICHOLSON, B.Sc., Ph.D., *London*.
A.R.I.C.
J. W. CZEKALOWSKI, M.D., *Edinburgh*,
D.T.M. & H.
T. H. FLEWETT, M.D., *Belfast*
R. A. HOLMAN, M.B., Ch.B., *Leeds*
- Lecturer in Medical Mycology :* C. J. P. LA TOUCHE, M.Sc., L.A.H., *Dublin*
- Demonstrator :* G. C. TURNER, M.B., Ch.B., *Leeds*
- Research Assistant :* A. I. TIFFIN, B.Sc., *Leeds*
- Research Assistant for Electron Microscopy :* G. EAVES, B.Sc., *Manchester*
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Miss M. J. BYNNER
Miss E. B. COUZENS
- Senior Laboratory Steward :* F. HAIGH
- Senior Laboratory Assistants :* R. BURROW
A. MYERS

Experimental Pathology and Cancer Research

- Professor of Experimental Pathology and Director of Cancer Research :* *R. D. PASSEY, M.C., M.D., D.P.H.,
London
- Senior Research Fellow and Assistant Director of Cancer Research :* *T. D. DAY, M.A., M.D., *Cambridge*
- Readers in Cancer Research :* *L. L. DMOCHOWSKI, M.D., *Warsaw*,
Ph.D., *Leeds*
*Mrs. GEORGIANA M. BONSER, M.D.,
Manchester, M.R.C.P., M.R.C.S., *Morbid*
Anatomist to St. James's Hospital
- Senior Lecturer in Experimental Biochemistry :* *L. H. STICKLAND, M.A., Ph.D., *Cambridge*

<i>Lecturer in Experimental Pathology :</i>	Vacant
<i>Assistant Lecturer :</i>	Vacant
<i>Research Assistant (Organic Chemist) :</i>	D. B. CLAYSON, B.A., <i>Oxford</i>
<i>Cancer Research Fellows :</i>	
<i>Henry Oxley Fellowship :</i>	J. W. JULL, B.Sc., <i>Leeds</i>
<i>Elizabeth and Louisa Ward Fellowship :</i>	J. O. LAWS, M.B., B.Chir., <i>Cambridge</i> , Ph.D., <i>London</i>
<i>J. W. Wootton Research Fellow :</i>	J. ROWBOTTOM, B.Sc., <i>London</i>
<i>Research Assistant for Electron Microscopy :</i>	G. EAVES, B.Sc., <i>Manchester</i>
<i>Clerk :</i>	Mrs. AUDREY GALLANT
<i>Senior Laboratory Steward :</i>	W. J. ALLAN

Medicine

<i>Professor of Medicine :</i>	*R. E. TUNBRIDGE, O.B.E., M.D., M.Sc., <i>Leeds</i> , F.R.C.P.
<i>Professor of Clinical Medicine :</i>	*S. J. HARTFALL, T.D., B.Sc., M.D., <i>Leeds</i> , F.R.C.P.
<i>Senior Lecturer in Medicine :</i>	Vacant
<i>Senior Clinical Lecturer :</i>	*J. R. H. TOWERS, M.A., M.D., <i>Cambridge</i> , F.R.C.P.
<i>Clinical Lecturers :</i>	*I. MACPHERSON, M.D., <i>Leeds</i> , F.R.C.P. *O. M. TELLING, M.A., D.M., <i>Oxon.</i> , F.R.C.P. *R. N. TATTERSALL, O.B.E., M.D., <i>London</i> , M.R.C.P.
<i>Lecturers :</i>	*D. TAVERNER, M.B.E., M.D., <i>Leeds</i> , M.R.C.P. G. WATKINSON, M.D., B.S., <i>London</i> , M.R.C.P., M.R.C.S.
<i>Lecturer in Medical Ethics and Conditions of General Practice :</i>	*W. S. MACDONALD, M.C., M.B., Ch.B., <i>Edinburgh</i> , D.P.H., J.P.

*Member of the Board of the Faculty of Medicine.

<i>Lecturer in Medical Biochemistry :</i>	D. A. HALL, B.Sc., Ph.D., <i>Leeds</i>
<i>Senior Registrar and Tutor :</i>	O. MAGIDSON, M.D., <i>Leeds</i> , M.R.C.P.
<i>Temporary Senior Registrar and Tutor :</i>	J. R. FOUNTAIN, M.B., Ch.B., <i>Edinburgh</i> , M.R.C.P.
<i>Research Fellow : in Medicine :</i>	R. G. PALEY, Ph.D., M.D., <i>Leeds</i> , L.R.C.P., M.R.C.S.
<i>Temporary Research Assistant in Medicine :</i>	G. C. WOOD, B.Sc., Ph.D., <i>Leeds</i>
<i>Research Assistant in Clinical Medicine :</i>	J. W. BEATTIE, M.D., <i>Belfast</i> , M.R.C.P.
<i>Medical Illustrator :</i>	H. G. LUMBY
<i>Clerks :</i>	Miss BARBARA KNOWLES Miss P. SMITH
<i>Senior Laboratory Steward :</i>	Vacant

Dermatology

<i>Senior Clinical Lecturers in Dermatology :</i>	*J. T. INGRAM, M.D., <i>London</i> , F.R.C.P. *F. F. HELLIER, O.B.E., M.A., <i>Cambridge</i> , M.D., <i>London</i> , F.R.C.P.
<i>Clinical Lecturer :</i>	*S. T. ANNING, M.A., M.D., <i>Cambridge</i> , M.R.C.P.
<i>Research Fellow :</i>	Vacant
<i>Lecturer in Medical Mycology :</i>	C. J. P. LA TOUCHE, M.Sc., L.A.H., <i>Dublin</i>
<i>Senior Registrar and Tutor :</i>	J. D. EVERALL, M.R.C.P.

Infectious Diseases

<i>Senior Clinical Lecturer :</i>	*E. C. BENN, M.B., Ch.B., D.P.H., <i>Liverpool</i> , Medical Superintendent, City Hospitals, Seacroft
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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.

*Member of the Board of the Faculty of Medicine.

Pædiatrics and Child Health

(84, Fenton Street, Leeds, 1)

- Professor :* *W. S. M. CRAIG, B.Sc., *Glasgow, M.D., Edinburgh, F.R.C.P.E., F.R.S.E., M.R.C.P.*
- Senior Clinical Lecturer :* *E. C. ALLIBONE, M.D., *Leeds, Ph.D., Birmingham, M.R.C.P., D.P.M.*
- Lecturers :* R. J. PUGH, M.B., Ch.B., *Birmingham, M.R.C.P., D.C.H., London*
M. F. G. BUCHANAN, M.B., Ch.B., *M.R.C.P., Edinburgh, D.C.H., London*
- Senior Registrar and Tutor :* B. S. ROSE, M.B., Ch.B., *Birmingham, M.R.C.S., M.R.C.P., D.C.H., London*
- Clerks :* Miss JUNE M. BARKER
Miss A. P. LAW

Psychiatry

(27, Blundell Street, Leeds, 1)

- Nuffield Professor of Psychiatry :* *D. R. MacCALMAN M.D., *Glasgow, M.R.C.P., Edinburgh, D.P.M., F.B.Ps.S.*
- Senior Lecturer :* Vacant
- Senior Lecturer in Child Psychiatry :* Miss W. MARY BURBURY, M.A., *Cambridge, M.B., B.S., D.P.M., London, L.R.C.P., M.R.C.S.*
- Part-time Lecturers in Mental Diseases :* I. SUTTON, B.Sc., M.D., *Manchester, D.P.M., L.R.C.P., M.R.C.S.*
H. BURT, M.B., Ch.B., *Glasgow, D.P.M., Leeds*
J. VALENTINE, M.B., Ch.B., *Glasgow, D.P.M., London*
J. W. AFFLECK, M.B., Ch.B., *Glasgow, F.R.F.P.S., D.P.M.*
- Part-time Lecturer in Mental Deficiency :* A. H. WILSON, M.B., Ch.B., *Aberdeen, D.P.M.*
- Senior Registrar and Tutor :* R. W. CROCKET, M.B., Ch.B., *Glasgow, D.P.M., London, F.R.F.P.S., Glasgow, M.R.C.P., Edinburgh*
- Clinical Psychologist :* D. R. MARTIN, B.A., *Sydney*

*Member of the Board of the Faculty of Medicine.

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	H. ROSENBUSCH, M.D., <i>Leipzig</i> and <i>Gisa</i>
<i>Senior Psychiatric Social Worker and Tutor :</i>	Miss MARION B. H. WHYTE, M.A., <i>Edinburgh</i>
<i>Psychiatric Social Worker :</i>	Mrs. EVELYN M. STEAD, B.A., <i>Leeds</i>
<i>Psychological Assistant :</i>	Miss ANITA R. BERLYNE, B.A., <i>Cambridge, Dip. Psych., London</i>
<i>Clerical Staff :</i>	Miss ANNE McGLENN Miss M. C. FLETCHER Miss F. A. PAGE

Rheumatism Research

<i>Director of Rheumatism Research :</i>	*Vacant
<i>Research Fellow in the Surgery of Rheumatism :</i>	Vacant
<i>Research Fellow in Rheumatism :</i>	Vacant
<i>Clerk :</i>	Vacant

Therapeutics

<i>Professor of Therapeutics :</i>	Vacant
<i>Assistant Lecturer in Therapeutics :</i>	Vacant

Tuberculosis

<i>Part-time Lecturer in Tuberculosis :</i>	Vacant
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Venereal Diseases

<i>Clinical Lecturer :</i>	*G. O. HORNE, F.R.C.P., <i>Edinburgh</i>
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Surgery

<i>Professor of Surgery :</i>	*D. CHAMBERLAIN, Ch.M., <i>Leeds</i> , F.R.C.S.
<i>Professor of Clinical Surgery :</i>	*H. W. SYMONS, M.B., Ch.B., <i>Leeds</i> , F.R.C.S.

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*G. ARMITAGE, M.C., T.D., M.D., Ch.M., Leeds, F.R.C.S.
- Clinical Lecturers :* *M. W. C. OLDFIELD, M.B.E., M.A., D.M., M.Ch., Oxford, F.R.C.S.
*A. J. C. LATCHMORE, M.B.E., M.S., London, F.R.C.S.
*H. S. SHUCKSMITH, B.Sc., M.B., Ch.B., Leeds, F.R.C.S.
- Senior Registrars and Tutors :* H. D. MOORE, M.C., M.B., B.S., Sydney, F.R.C.S., F.R.C.S.Ed.

Anæsthetics

- Reader in Anæsthetics :* *R. P. HARBORD, M.D., Liverpool, D.A., L.R.C.P., M.R.C.S., F.F.A.R.C.S.
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Miss GWENDOLEN HARRISON, M.B., Ch.B., Leeds, D.A.
R. L. H. HARRIS, M.B., B.S., London, M.R.C.S., L.R.C.P., D.A.
A. T. HAWTHORNE, M.B., Ch.B., B.A.O. Belfast, D.A.
F. G. MACKINTOSH, M.B., Ch.B., Aberdeen, D.A.
Mrs. DORIS N. AMBERY SMITH, M.R.C.S., L.R.C.P., D.A.
D. S. YOUNG, M.B., Ch.B., Leeds, D.A.
- Lecturer :* A. B. EASTWOOD, M.R.C.S., L.R.C.P., D.A.
- Honorary Demonstrator :* Mrs. JEAN L. HALL, M.B., Ch.B., Leeds, M.B., B.S., London, D.A.
- Research Assistant :* The Hon. SHEILA H. PARNELL, B.Sc., McGill
- Clerk :* Mrs. E. M. L. HOWES

Neurological Surgery

- Senior Clinical Lecturer :* *W. R. HENDERSON, O.B.E., M.B., Ch.B., Edinburgh, F.R.C.S.

*Member of the Board of the Faculty of Medicine.

Ophthalmology

- Senior Clinical Lecturers :* *J. FOSTER, M.A., M.B., B.Chir., Cambridge, F.R.C.S.
 *G. W. BLACK, M.B., B.S., London, F.R.C.S.

Orthopædic Surgery

- Senior Clinical Lecturers :* *R. BROOMHEAD, M.B., Ch.B., Leeds, F.R.C.S.
 *A. B. PAIN, Ch.M., Leeds, F.R.C.S.
Clinical Lecturer : *J. M. P. CLARK, M.B.E., M.B., Ch.B., Leeds, F.R.C.S.
Senior Registrar and Tutor : H. N. BURWELL, M.B., Ch.B., Leeds, F.R.C.S.

Otology

- Senior Clinical Lecturers :* *G. S. SEED, M.B., Ch.B., Leeds, F.R.C.S., D.L.O.
 *T. McM. BOYLE, M.B., Ch.B., Leeds, F.R.C.S., D.L.O.
Clinical Lecturer : *O. C. LORD, Ch.M., Leeds, F.R.C.S., Edinburgh, D.L.O.

Thoracic Surgery

- Senior Clinical Lecturer :* *P. R. ALLISON, B.Sc., Ch.M., Leeds, F.R.C.S.
Clinical Lecturer : *G. H. WOOLER, M.A., M.D., B.Chir., Cambridge, L.R.C.P., London, F.R.C.S.
Research Fellow : Vacant

Urology

- Senior Clinical Lecturer :* *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.
Research Fellow : F. M. PARSONS, B.Sc., M.B., Ch.B., Leeds

Obstetrics and Gynæcology

(28, Hyde Terrace, Leeds, 2)

- Professor of Obstetrics and Gynæcology :* *A. M. CLAYE, M.D., Leeds, F.R.C.S., F.R.C.O.G.
Senior Clinical Lecturer in Obstetrics : *D. W. CURRIE, M.D., Ch.M., Leeds, F.R.C.S., F.R.C.O.G.

* Member of the Board of the Faculty of Medicine.

- Senior Clinical Lecturer in Gynaecology :* *B. L. JEAFFRESON, M.D., London, F.R.C.S., F.R.C.O.G.
- Clinical Lecturers in Obstetrics and Gynaecology :* W. McINTOSH, M.B., Ch.B., Glasgow
*H. AGAR, B.Sc., M.B., Ch.B., Leeds, M.B., B.S., London, F.R.C.S., M.R.C.O.G.
- Senior Lecturer in Obstetrics and Gynaecology :* Miss URSULA M. LISTER, M.D., London, F.R.C.S., Edinburgh, M.R.C.O.G.
- Senior Registrar and Tutor in Obstetrics and Gynaecology :* A. AMBERY SMITH, M.D., Leeds, M.R.C.O.G.
- Clerk :* Mrs. ELIZABETH M. TURNER

Radiology

- Professor of Radiodiagnosis :* *A. STEWART JOHNSTONE, M.D., Edinburgh, F.R.C.S.E., F.F.R., D.M.R.E.
- Lecturer in Radiodiagnosis :* *G. H. ILLINGWORTH, M.A., Oxford, M.D., Leeds, L.R.C.P., M.R.C.S., D.M.R.Ed.
- Senior Clinical Lecturers in Radiotherapy :* *A. A. DIGGES LA TOUCHE, M.A., M.B., B.Chir., Cambridge, F.R.C.S., D.M.R.
*J. R. NUTTALL, M.D., Manchester, D.M.R., F.F.R.
- Part-time Lecturer in Radiotherapy :* *J. M. LEES, M.A., B.M., B.Ch., Oxford, D.M.R.
- Part-time Lecturer in Radiology :* Vacant

Medical Physics

- Professor :* *F. W. SPIERS, B.Sc., Ph.D., Birmingham
- Lecturers in Medical Physics :* G. A. HAY, M.Sc., Durham
G. W. REED, M.Sc., Leeds
Miss MARGARET T. MORRISON, B.Sc., Birmingham
- Temporary Demonstrator :* Miss NORMA KEWLEY, B.Sc., Leeds
- Research Assistant :* R. P. J. BURCH, B.A., Cambridge

Preventive Medicine and Public Health

(32, Hyde Terrace, Leeds, 2)

- Professor of Public Health :* *I. G. DAVIES, M.D., B.S., D.P.H., London, M.R.C.P., Medical Officer of Health for the City of Leeds

*Member of the Board of the Faculty of Medicine.

- Senior Lecturer and Chief Assistant :* *C. W. DIXON, M.D., B.S., London, M.R.C.S., L.R.C.P., D.L.O., D.C.H., D.P.H.
- Senior Lecturer :* *R. SUTHERLAND, M.D., D.P.H., Aberdeen
- Honorary Lecturer :* R. J. STILL, M.A., M.B., B.Chir., Cambridge, D.Obst.R.C.O.G.
- Part-time Lecturers :* D. B. BRADSHAW, M.A., M.B., B.Ch., B.A.O., D.P.H., Dublin
J. A. L. VAUGHAN JONES, M.B., Ch.B., Glasgow, J.P.
A. L. TAYLOR, M.D., D.P.H., L.D.S., Leeds
- Part-time Lecturer in Vaccination :* Vacant
- Part-time Instructors :* M. E. WILLCOCK, M.B., Ch.B., Edinburgh, D.P.H., Edinburgh and Glasgow
C. H. MANLEY, M.A., Oxford, F.R.I.C.
J. GOODFELLOW, M.R.S.I., A.M.I.S.E.
D. G. DAVIES, F.R.S.S., A.C.C.S.
Three vacancies
- Health Visitor Tutors :* Miss ANNIE M. CLARKE, S.R.N., S.C.M.
Miss FLORENCE M. MAWSON, D.N., Leeds, S.R.N., S.C.M., D.P.A.
- Medical Illustrator :* H. G. LUMBY
- Clerical Staff :* Miss B. GILL
Miss S. JEAFFRESON

Forensic Medicine

(30, Hyde Terrace, Leeds, 2)

- Professor .* *C. J. POLSON, M.D., Birmingham, M.R.C.S., F.R.C.P., Barrister-at-Law
- Senior Lecturer :* *R. P. BRITTAIN, M.A., B.Sc., M.B., Ch.B., B.L., LL.B., Dip. in Public Admin., Glasgow
- Lecturer :* T. K. MARSHALL, M.B., Ch.B., Leeds
- Clerks :* Miss J. M. BAMBER
Miss T. M. TELLING
- Laboratory Steward :* H. BATTISON

Part-time Medical Geneticist

C. O. CARTER, B.A., B.M., B.Ch., Oxford, M.R.C.P.

* Member of the Board of the Faculty of Medicine.

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*Administrative
Assistant to the
Senior Adminis-
trative Officer :*

A. J. P. LOCKYER, M.A., *Cambridge**Clerical Staff :*

Miss SYLVIA J. WOOD

Miss C. J. HOCKIN

Medical School

A. WOOD

Janitor :

SCHOOL OF DENTISTRY

Dental School and Dental Hospital at Leeds Staff

*Professor of Clinical *T. TALMAGE READ, F.R.F.P.S., Glasgow,
Dental Surgery and F.D.S.R.C.S., Eng., L.R.C.P., Edin-
Warden of the burgh
Dental School and
Hospital :*

*Senior Lecturer in *M. R. HOLLINGS, F.D.S.R.C.S., Eng.,
Clinical Dental B.Ch.D., Leeds
Surgery :*

*Senior Lecturer in *H. SHAW, F.D.S.R.C.S., Eng., L.D.S.,
Orthodontics : Leeds*

*Nuffield Research Vacant
Fellow in Oral
Biology :*

*Research Fellow in S. M. WEIDMANN, Dr. Ing., Darmstadt,
Oral Biology : Ph.D., Leeds*

*Lecturers in Clinical Mrs. KATHLEEN M. CARR, B.Sc.,
Dental Surgery : B.Ch.D., L.D.S., Leeds*

J. H. ROSS, B.Ch.D., L.D.S., *Leeds*R. T. HEYLINGS, B.Ch.D., M.B., Ch.B.,
L.D.S., *Leeds*D. JACKSON, M.D.S., L.D.S., *Manchester*J. COPLAND, B.Ch.D., L.D.S., *Leeds*

Clinical Dental J. K. CRAWFORD, F.D.S.R.C.S., Eng.

*Lecturers : J. P. COCKER, F.D.S.R.C.S., Eng.*J. G. SYKES, F.D.S.R.C.S., Eng.,
B.Ch.D., *Leeds*H. D. STEPHENS, L.D.S., *Eng.*H. G. L. JOHNSON, L.D.S., *Eng.*S. R. WOODCOCK, H.D.D., *Edinburgh,*
L.D.S., *Leeds*D. J. CORK, L.D.S., *Leeds*FRANK BROOK, H.D.D., *Edinburgh,*
L.D.S., *Leeds*

Two vacancies

*Member of the Board of the Faculty of Medicine.

<i>Honorary Clinical Tutors :</i>	Six vacancies
<i>Lecturer in Dental Surgery :</i>	J. P. COCKER, F.D.S.R.C.S., <i>Eng.</i>
<i>Lecturer in Dental Anatomy and Physiology :</i>	J. G. SYKES, F.D.S.R.C.S., <i>Eng.</i> , B.Ch.D., <i>Leeds</i>
<i>Lecturer in Dental Mechanics :</i>	H. D. STEPHENS, L.D.S., <i>Eng.</i>
<i>Lecturers in Prosthetic Dentistry :</i>	C. WOODHEAD, L.D.S., <i>Leeds</i> C. B. THORNHAM, B.Ch.D., L.D.S., <i>Leeds</i> One vacancy
<i>Honorary Demonstrator in Dental Histology :</i>	Vacant
<i>Honorary Demonstrator in Orthodontics :</i>	T. JASON WOOD, B.Ch.D., <i>Leeds</i> , L.D.S., <i>Eng.</i>
<i>Lecturer in Dental Pathology and Bacteriology :</i>	Professor T. TALMAGE READ, F.R.F.P.S., <i>Glasgow</i> , F.D.S.R.C.S., <i>Eng.</i> , L.R.C.P., <i>Edinburgh</i>
<i>Lecturer in Orthodontics :</i>	Vacant
<i>Honorary Demonstrator in Dental Prosthetics :</i>	Vacant
<i>Lecturers in Properties of Dental Materials :</i>	J. HUME, B.Sc., <i>Edinburgh</i> , A.R.I.C. Professor A. L. ROBERTS, B.Sc., Ph.D., <i>Leeds</i> , F.R.I.C. N. J. PETCH, B.Sc., Ph.D., <i>London</i> , B.Met., <i>Sheffield</i>
<i>Lecturer in Radiology :</i>	Professor A. STEWART JOHNSTONE, M.D., <i>Edinburgh</i> , F.R.C.S.E., F.F.R., D.M.R.E.
<i>Lecturer in General Anæsthetics :</i>	R. P. HARBORD, M.D., <i>Liverpool</i> , D.A., L.R.C.P., M.R.C.S., F.F.A., R.C.S.
<i>Senior Hospital Dental Officer :</i>	F. L. SOUTHAM, L.D.S., <i>Leeds</i>
<i>House Surgeons :</i>	Eight vacancies
<i>Assistant House Surgeons :</i>	Four vacancies

<i>Instructors in</i>	E. HUGHES
<i>Dental Mechanics :</i>	E. MOULTON
	C. ELY
	L. HOW
	One vacancy
<i>Dental Mechanics :</i>	T. DINEEN, N. KIDD, R. PEEL, P. RICHARDS, J. L. WHITWORTH
<i>Oral Hygienist :</i>	Mrs. B. J. WILSON
<i>Radiographer :</i>	Miss PAULA M. TATE, M.S.R.
<i>Theatre Sister :</i>	Miss MARIE NETTLETON, S.R.N.
<i>Dental Attendants :</i>	Miss MARJORIE HILL, Miss AUDREY M. DAWSON, Mrs. M. INMAN, Mrs. K. R. BUSH
<i>Instructor in</i>	H. B. HARLAND, A.I.M.L.T., F.R.M.S.
<i>Laboratory Methods :</i>	
<i>Laboratory</i>	L. JEPSON, G. SPENCE, R. W. LOFT-
<i>Assistants :</i>	HOUSE, Miss E. MORLEY
<i>Maintenance</i>	E. L. GEORGE
<i>Mechanics and</i>	H. JOHNSON
<i>Instrument Makers :</i>	
<i>Secretary :</i>	A. BATT, A.H.A.
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	Miss C. M. JONES
	Mrs. B. PARKER
	Miss M. BRADLEY
	One vacancy
<i>Porters :</i>	G. ADDISON. One vacancy.
<i>Telephonist :</i>	Mrs. B. WILSON

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<i>Lecturers in</i>	J. H. HIGGINSON, M.A., M.Ed., <i>Leeds</i>
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THOMPSON, C. C., B.Sc., Department of Biochemistry, The Medical School, Leeds, 2	150
THOMPSON, E. P., B.A., Holly Bank, Whitegate, Siddal, Halifax	165
THOMPSON, Miss J., 27, Heath Road, Leeds, 11	172
THOMPSON, M. C., B.Sc., 8, Springfield Mount, Leeds, 2	147
THORNHAM, C. B., B.Ch.D., L.D.S., 15a, Cardigan Road, Leeds, 6	163
THYSS, Mlle. MARIE-LOUISE, Department of French, The University, Leeds, 2	126
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TIBBS, J., B.Sc., Ph.D., 32, Harlech Road, Leeds, 11	139
TIFFIN, A. I., B.Sc., Lyddon Hall, Virginia Road, Leeds, 2	153
TODD, Mrs. B., 25, Elford Place, Leeds, 8	172
TOWERS J. R. H., M.A., M.D., F.R.C.P., 42 Park Square, Leeds, 1	154
TOWERS, K. G., B.V.Sc., M.R.C.V.S., 42, Newport View, Leeds, 6	148
TOWLER, J. H., M.Sc., 91, King's Road, Harrogate	143
TOWNEND, P. P., B.Sc., Ph.D., F.T.I., 25, Tredgold Avenue, Bramhope, near Leeds	144
TOWNSEND, W. N., B.Sc., 2, Parkside Crescent, Meanwood, Leeds, 6	148
TRAVIS, Miss MARJORIE A., B.A., M.A., The Flat, 30, Hyde Terrace, Leeds, 2	130
TRICKETT, W. H., B.Sc., 43, Richmond Mount, Leeds, 6	173
TRUTER, E. V., B.Sc., Ph.D., A.R.C.S., D.I.C., A.R.I.C., Flat 1, 34, Reservoir Street, Leeds, 2	145
TRUTER, Mrs. M. R., B.Sc., A.R.C.S., Flat 1, 34, Reservoir Street, Leeds, 2	135
TUFF, Miss C. M., 50, Dodsworth Avenue, Heworth, York	136
TULLOCH, Miss E., 570, Foundry Lane, Leeds, 9	172
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TURNBULL, Miss M. M., 11, Heathfield Terrace, Leeds, 6 ..	151
TURNER, Miss DOROTHY M., M.Sc., Dip. Hort., Kirby Overblow, Hartogate	147
TURNER, Mrs. ELIZABETH M., 59, North Park Avenue, Leeds, 8	160
TURNER, G. C., M.B., Ch.B., 11, The View, Roundhay, Leeds, 8	153
TURNER, J. SELWYN, M.Sc., F.G.S., Faversham Hotel, Springfield Mount, Leeds, 2	138
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TURNER, Mrs. M. M., 5, Woodsley Terrace, Leeds, 2	172
TURVILLE-PETRE, E. O. G., B.A., B.Litt., The Court, Old Headington, Oxford	125
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VERITY, Miss S., 1, Cliff Side Gardens, Hyde Park, Leeds, 6	172
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VINE, Rev. A. R., M.A., B.A., B.Sc., D.D., Yorkshire United Independent College, Bradford	129
VIRGO, S. R., M.B.E., The Cottage, 22, Frenchgate, Richmond, Yorks.	166
VOLANS, P. B.Sc., 19, Grovehall Parade, Leeds, 11	136
WADE, W. V., M.A., F.S.A., Spen Hill, Spen Lane, Leeds, 6	124
WALKER, S., B.Sc., 21, Wynford Terrace, Leeds, 6	138
WALLBANK, Miss S. ANNIE, B.Sc., The Vicarage, Sherburn-in-Elmet, near Leeds	130
WALLS, W. K. J., M.B., Ch.B., L.R.C.P., M.R.C.S., The Rookery, Rodley, Leeds	149
WALSH, A. D., M.A., Ph.D., Beech Garth, 27, The Drive, Adel, Leeds, 6	135
WALSH, H. E., M.A., M.Ed., 11, North Grange Mount, Leeds, 6	166
WALTON, A. W., B.Sc., 30, Gledhow Avenue, Leeds, 8	136
WARD, J. T., B.Sc. (Econ.), Devonshire Hall, Cumberland Road, Leeds, 6	148 & 169
WATKIN-JONES, Rev. H., M.A., D.D., Wesley College, Headingley, Leeds, 6	129
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WATSON, Miss V., Selby Road, Monk Fryston, South Milford	166
WEBSTER, Miss A. M., 17, Victoria Road, Guiseley ..	149
WEBSTER, Mrs. F., 12, Newton Grove, Leeds, 7 ..	172
WEIDMANN, S. M., Dr. Ing., Ph.D., 3, Cardigan Road, Leeds, 6	162
WEIR, R. J., B.Eng., 4, Hollin Park Road, Oakwood, Leeds, 8	136
WELCH, B. L., B.A., Ph.D., 6, Hollin Lane, Leeds, 6 ..	133
WELCH, H. O., 10, Devon Mount, Leeds, 2	164
WERBLOWSKY, R. J. Z., B.A., Docteur-ès-Lettres, 91, Mexborough Place, Leeds, 7	124
WERTH, Miss IRENE, M.A., 22, Estcourt Avenue, Leeds, 6	137
WESLEY, A., B.Sc., (Sp.) A.R.C.S., The Outwood, Outwood Lane, Horsforth, near Leeds	138
WESTERN, J. H., B.Sc., Ph.D., "Westhidge," North Drive, Bramhope, near Leeds	147
WHEATLEY, P. J., M.A., D.Phil., 73, Monkbridge Road, Leeds, 6	135
WHETTON, Prof. J. T., D.S.O., O.B.E., M.C., T.D., M.Sc., 19, Oak Bank, Shaw Lane, Leeds, 6	141 & 173
WHEWELL, C. S., B.Sc., Ph.D., F.R.I.C., F.T.I., 17, Hollin Lane, Leeds, 6	144
WHITAKER, H. M.Sc., 26, Reservoir Street, Leeds, 2 ..	136
WHITE, Miss TESSA D., Craigside, Beechwood, Brownberrie Lane, Horsforth, near Leeds	149
WHITWORTH, Mrs. A. B., 26, Green Park Road, Skircoat Green, Halifax	168
WHYTE, Miss MARION B. H., M.A., Hayfield Cottage, Reginald Terrace, Leeds, 7	157
WIGHTMAN, W. A., M.A., F.R.I.C., "Ambleside," 2, Churchwood Mount, Far Headingley, Leeds, 6 ..	136
WILCHER, Miss OLIVE M., "Elladene," Kirkstall Lane, Leeds, 6	146
WILD, Mrs. E., 522, Foundry Lane, Oakwood Lane, Leeds, 9	152
WILDE, J. E., Department of Physical Education, The University, Leeds, 2	168
WILKIE, J. R., M.A., B.A., 19, Cardigan Road, Leeds, 6 ..	126
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WILLCOX, J. S., B.Sc., F.R.I.C., 19, Beckett's Park Drive, Leeds, 6	147
WILLIAMSON, Prof. A. V., M.A., "Monkswood," 3a, Claremont Drive, Leeds, 6	127
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WISEMAN, H. V., M.A., B.Sc., 25, Cavendish Road, Leeds, 1	130
WOLF, J., M.Sc., 108, Stainbeck Lane, Leeds, 7	147
WOLSTENCROFT, J. H., M.A., Fosse House, 9, Parkside Road, Leeds, 6	150
WOOD, A., 3, Warwick Place, Leeds, 2	162
WOOD, Prof. E. J., M.A., 12, Westville Avenue, Ilkley	124
WOOD, G. C., B.Sc., Ph.D., 3, Scotch George Lane, Scriven, Knaresborough	155
WOOD, J. W., M.Sc., F.R.I.C., A.M.Inst.Gas E., 23, Chestnut Avenue, Leeds, 6	142
WOOD, Miss SYLVIA J., West View, 6, Ontario Place, Chapel Allerton, Leeds, 7	162
WOOD, T. JASON, B.Ch.D., L.D.S., 6, Mornington Villas, Bradford	163
WOODCOCK, S. R., L.D.S., H.D.D., 25, Albion Street, Hull	162
WOODHEAD, C., L.D.S., "Camden," 4, Hillcrest Rise, Cookridge, Leeds, 6	163
WOODHEAD, J. L., M.A., Department of Phonetics, The University, Leeds, 2	131
WOODS, H. J., M.A., F.Inst.P., 115, Victoria Road, Leeds, 6	144
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WRIGHT, C. J. E., M.D., M.Sc., 16, Trenance Drive, Shipley, Yorks	151
WRIGHT, Miss EDITH M., B.Sc., 37, Weetwood Lane, Leeds, 6	148
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YOUELL, R. F., B.Sc., A.R.C.S., 37, Richmond Avenue, Headingley, Leeds, 6	134
YOUNG, D., A.T.I., 464, Spen Lane, Leeds, 6	144
YOUNG, D. S., M.B., Ch.B., D.A., "Highfield," Old Park Road, Leeds, 8	158
YOUNG, Miss M., 1, Falmer Road, Darlington	166
ZINNEMANN, K. S., M.D., 45, Grove Lane, Leeds, 6	153

REPRESENTATIVES OF THE UNIVERSITY ON COMMITTEES AND OTHER INSTITUTIONS

The number prefixed to a name indicates the number of years in the term of the appointment

A. Joint Matriculation Board

	Appointment expires
1Professor COX	June, 1953
1Professor R. H. EVANS	"
1Professor GILLIES	"
1Professor WILLIAMSON	"

B. Courts of other Universities

Birmingham	3Professor CHALLENGER	Dec., 1954
Bristol	7Professor COX	May, 1958
Liverpool	3Professor WILLIAMSON	Dec., 1953
Nottingham	3Professor SHIMMIN	Feb., 1955
Sheffield	3Professor CLAPTON	June, 1954

C. Education Committees

North Riding	3Dr. S. G. RAYBOULD	Mar., 1955
East Riding	1Professor NIBLETT	Feb., 1953
Harrogate Divisional Executive Committee	1Dr. S. J. CURTIS	July, 1953
Keighley Committee for Education	1Dr. C. S. WHEWELL	May, 1953
York Committee for Education (Region I)	3Mrs. PASSEY	May, 1955
York Committee for Education (Region V)	3Professor ARMFELT	May, 1955
Dewsbury Secondary Educa- tion Sub-Committee (Gov- ernors of Secondary Schools)	3Dr. J. MACARTHUR	Nov., 1954

D. Affiliated Institutions

College of the Resurrection, Mirfield	1Professor RUSE	June, 1953
Huddersfield Technical College	1Professor CHALLENGER	May, 1953
Rawdon College	1Professor REID	June, 1953
St. John's College, York	1Professor NIBLETT	Oct., 1953

E. Governing Bodies of Schools

Aireborough Grammar School	} 3Mr. A. G. JOSELIN	July, 1955
Guiselley Modern School		
Askrigg, Yorebridge Grammar School	3Mr. J. MACGREGOR	Mar., 1955
Barnsley Grammar School	3Mr. H. J. KING	Nov., 1954

Appointment expires

South Hiendley and Ryhill		
Modern School	.3Mr. H. J. KING	. July, 1955
Batley Grammar School	.3Mr. S. G. RICHARDSON	. May, 1953
Batley Group I Secondary Schools	.3Mrs. BONSER	. July, 1955
Bentham—Collingwood and Baynes Foundation	.5Professor J. W. HARVEY	. Dec., 1953
Beverley Grammar School	.3Dr. H. C. VERSEY	. Dec., 1954
Bingley Grammar School	.3Dr. R. F. BROWN	. June, 1954
Bradford Grammar School	.3Professor A. J. BROWN	. Dec., 1954
Bradford Girls' Grammar School	.3Lady OGILVIE	. Mar., 1954
Bridlington School	.3Mr. W. H. BODDINGTON	. Aug., 1955
Brighouse Grammar School for Girls	.3Miss S. A. WALLBANK	. July, 1955
Castleford Grammar School		
Castleford Modern School		
Castleford Whitwood Modern School		
Castleford Pontefract Road Modern School	.3Mr. A. LAING	. July, 1955
Castleford Airedale Modern School		
Castleford Ashton Road Modern School		
Cleckheaton Grammar School	.3Professor TUNBRIDGE	. May, 1953
Coxwold Charity	.3Mr. FRANK HOLMES	. Oct., 1953
Cudworth Modern School (B)		
Cudworth Modern School (G)		
Royston Modern School (B)	.3Dr. FOWLER	. July, 1955
Royston Modern School (G)		
Drax-Reade Grammar School	.3Professor PASSEY	. Feb., 1955
Easingwold Grammar School	.3Mr. L. G. JOHNSON	. Mar., 1955
Elland Grammar School	.3Mr. H. BAXANDALL	. July, 1955
Giggleswick School	.3Mr. A. A. EVANS	. Mar., 1955
Goole Grammar School	.3Dr. J. C. GILLIES	. July, 1955
Goole Modern School		
Halifax—Crossley and Porter Schools	.2Mr. A. LAING	. May, 1954
Halifax—Rishworth School	.3	. May, 1953
Harrogate Grammar School	.3Professor J. H. RICHARDSON	. May, 1955
Harrogate Secondary Technical School	.3Professor G. W. CARTER	. May, 1955
Harrogate Starbeck Modern School		
Harrogate Western Modern School	.3Professor J. H. RICHARDSON	. July, 1955
Knaresborough Modern School		
Boroughbridge Modern School		

	Appointment expires	
Hebden Bridge Grammar School		
Hebden Royd Secondary Modern School		
Heckmondwike Grammar School	3Professor DAINTON	July, 1955
Hemsworth Grammar School	3Mr. C. W. GILHAM	July, 1955
Hemsworth Modern School		
Kinsley Modern School		
Hipperholme Grammar School	3Mr. D. G. BURNS	June, 1955
Upper Agbrigg Divisional Executive No. 14	3Mr. H. BAXANDALL	July, 1955
Ilkley Grammar School	Professor LE PATOUREL	Nov., 1953
Keighley Boys' Grammar School	3Dr. C. S. WHEWELL	June, 1953
Keighley Girls' Grammar School	3Dr. C. S. WHEWELL	June, 1953
Keighley Drake and Tonson's Foundation	3Mrs. CHALLENGER	April, 1955
Knaresborough King James' Grammar School	3Professor SPAUL	July, 1955
Leeds—Allerton Area Advisory Board	1Dr. H. C. VERSEY	Oct., 1953
Leeds—Cockburn Area Advisory Board	1Professor HEMINGWAY	April, 1953
Leeds Grammar School	3Professor COX 3Professor ORTON	May, 1955
Leeds Girls' High School		
Leeds Mount St. Mary's College	3Mr. C. W. GILHAM	June, 1954
Leeds—Central Area Advisory Board	3Miss D. H. RAYNER	June, 1954
Leeds—Lawnswood Area Advisory Board	Professor RUSE	Oct., 1953
Leeds—Lawnswood Area Advisory Board	1Miss L. I. SCOTT 1Dr. F. E. HOARE	Oct., 1953
Leeds—Roundhay Area Advisory Board	1Miss ROBSON 1Mr. D. G. BURNS	Oct., 1953
Leeds—West Leeds Area Advisory Board	1Professor A. V. WILLIAMSON	Oct., 1953
Lupton's Foundation	4Mrs. E. M. TODD	Feb., 1956
Malton Grammar School	3Sir EDWARD WHITLEY	Oct., 1954
Middlesbrough—Coatham School	5Mr. W. P. BAKER	Oct., 1954
Mirfield Grammar School	5Professor KENNEDY	Sept., 1954

Appointment expires

Morley Grammar School	}	3Professor DONALD BURTON.	July, 1955
Morley Bridge Street			
Modern School			
Morley Victoria Road			
Modern School			
Normanton Grammar School	3	Dr. B. L. WELCH	Dec., 1955
Northallerton Grammar			
School	3	Mr. J. MELLING	May, 1953
Ossett Grammar School	3	Dr. N. B. SLATER	July, 1954
Otley Grammar School	3	Dr. N. J. PETCH	Apl., 1954
Pickering Grammar School	3	Mr. W. R. GRIST	Nov., 1954
Pocklington School	3	Mr. W. TWEDDLE	May, 1953
The King's School,	}		
Pontefract			
Pontefract Modern School			
Pontefract Girls' High	}		
School			
Pontefract Willow Park	3	Miss BOSWORTH	July, 1955
Modern School			
Upton Modern School	3	Dr. J. GORDON	July, 1955
South Kirkby Common	}		
Road Modern School			
South Kirkby Moorthorpe			
Modern School			
South Elmsall Modern	3	Mr. A. K. C. OTTAWAY	July, 1955
School			
Pudsey Governing Body for	}		
County Secondary Schools			
Rastrick Grammar School	3	Mr. H. E. WALSH	Dec., 1953
Richmond High School for			
Girls	3	Miss D. M. TURNER	Mar., 1955
Ripon Grammar School	3	Sir J. N. BARRAN, Bart.	May, 1954
Ripon Girls' High School	3	Miss F. M. STEVENS	July, 1955
Rothwell Grammar School	}		
Stanley Modern School			
3Mr. D. W. JEFFERSON			July, 1955
Scarborough Girls' High			
School	3	Miss M. E. A. BOULTWOOD	May, 1955
Scarborough High School for			
Boys	3	Dr. GUY L. THOMPSON	May, 1955
Saltburn High School for			
Girls			
Sedbergh School	5	Professor SHIMMIN	July, 1955

		Appointment expires
Selby High School for Girls	. 3Mrs. R. D. PASSEY	. July, 1955
Settle Girls' High School	. 3Miss AUDREY J. MARTIN	. July, 1955
Silcoates School	. . . Dr. J. W. BAKER	. . .
Skellfield School	. . . Mrs. WHEWELL	. . .
Skipton—Ermysted's Grammar School	. . . 3Mr. A. H. DANTON	. . . Jan., 1953
Skipton Girls' High School	. Lady OGILVIE	. . . May, 1954
Slaithwaite Endowed School Foundation	. . . 3Mr. H. BAXANDALL	. . . May, 1954
Sowerby Bridge County Secondary Schools	. . . 3Rev. J. R. SYKES	. . . July, 1955
Tadcaster Grammar School	. 3Professor PASSEY	. . . May, 1955
Thirsk Grammar School	. 3Mr. D. G. BURNS	. . . Mar., 1955
Todmorden Secondary Schools	3Dr. R. REED	. . . July, 1955
Wakefield Grammar School	. 3Professor HARVEY	. . . July, 1953
Whitby Grammar School	. 3Dr. J. E. HEMINGWAY	. . . Mar., 1955
Wortley Free Trust	. . . 3Professor ROBERTS	. . . May, 1955
Yarm Grammar School	. 3Dr. M. P. APPLEBEY	. . . Mar., 1955
York—St. Peter's School	. . . 5General J. C. LATTER	. . . Dec., 1953

F. Other Bodies

Akroyd Foundation	. { 5Professor COWLING . . . June, 1955 5Professor DAVISON . . .
Advisory Committee for Co-operation in Adult Education	. { Professor J. W. HARVEY . Dr. S. G. RAYBOULD . Professor A. N. SHIMMIN .
Universities Council for Adult Education	. { Mr. CAMERON . . . Dr. S. G. RAYBOULD . . .
Central Joint Advisory Committee on Tutorial Classes	. { 2Dr. S. G. RAYBOULD . . . Dec., 1953 2Professor HARVEY . . .
Advisory Council of British Legion on Adult Education	Dr. S. G. RAYBOULD . . .
Advisory Committee of the City and Guilds of London Institute (Dyeing of Textiles)	Professor BRADLEY . . .
do. (Leather Manufacture)	. Professor BURTON . . .
British Drama League (Northern Area Executive Committee)	. . . Mr. G. WILSON KNIGHT . . .
Castleford Whitwood Mining and Technical College	. 3Mr. W. L. J. POTTS . . . July, 1955

Appointment expires

Central Council of the Federated Superannuation System	{ 1Mr. E. J. BROWN 1Mr. W. A. WIGHTMAN	Jan., 1953
Council of the Foundation for Educational Research. Professor W. R. NIBLETT .		
Council for Promotion of Field Studies—General Advisory Committee	{ Dr. HENSON Dr. VERSEY	
General Medical Council .		
Harrogate Technical Institute ³	Professor G. W. CARTER .	Mar., 1955
Hull University College, Court of Governors	³ Professor GILLIES	Nov., 1955
Inter-University Council for Higher Education in the Colonies	The Vice-Chancellor	July, 1954
Standing Consultative Committee on I.C.I. Fellowships	Professor SPEAKMAN	
Leeds Chamber of Commerce Industrial Research Committee	{ Professor J. H. RICHARDSON Professor A. N. SHIMMIN Dr. WELCH	
Keighley Technical College .	Dr. WHEWELL	May, 1955
Leeds College of Technology .	¹ Professor CHRISTOPHERSON	Oct., 1953
Leeds College of Art	¹ Professor DOBRÉE	Oct., 1953
Leeds "Carnegie Hall" Advisory Committee	{ The VICE-CHANCELLOR Professor R. H. EVANS Professor ROBERTS (Fuel Industries) Professor CARTER (Elect. Engineering) Professor SPEAKMAN (Textile Industries) Professor WHETTON (Mining)	Mar., 1953
Leeds-Hull Academic Board for Advanced Technology	{ Professor R. H. EVANS Mr. G. WILSON	
do. Sub-Committee on Building Science	{ Professor R. H. EVANS Mr. G. WILSON	
Leeds-Lille Friendship Committee	Professor CLAPTON	
City of Leeds Young Men's Christian Association—Board of Management	⁵ Mr. S. G. RICHARDSON	June, 1954

		Appointment expires
Leeds—Swarthmore Settlement Council	{ 3Professor HARVEY 3Mr. E. A. VAUGHAN	Dec., 1953
Morley Technical and Branch Technical Institutes	3Dr. WHEWELL	July, 1953
National Advisory Council on Education for Industry and Commerce	Professor EVANS	April, 1954
National Council for Domestic Studies	Miss PITHER	
National College for the Leather Industry	Professor DONALD BURTON	
National Poultry Diploma Board	Professor COMBER	Dec., 1953
Pickering Museum of Antiquities	Mr. W. V. WADE	
Provincial Agricultural Economics Service Advisory Committee	Professor COMBER	
Committee on Religious Education (Ripon Diocese)	3Mr. J. W. PACKER	May, 1953
Committee on Public Records	Professor LE PATOUREL	
The Radiotherapy Advisory Committee	{ Professor W. A. BAIN Dr. J. T. INGRAM Professor SPIERS One vacancy	
Royal Anthropological Institute—Joint Committee on Research and Teaching	5Dr. L. F. HENRIQUES	Dec., 1957
Teachers' Registration Council	5Professor NIBLETT	
Universities and Accountancy Profession Joint Committee	Mr. E. J. BROWN	
University Advisory Committee of British Council	Professor HARVEY Professor A. N. SHIMMIN Miss IDA E. BROWN Mr. A. H. HANSON (for Public Administration)	
Joint University Council for Social Studies		
West Riding T.A. and A.F. Association	3Professor WHETTON	Feb., 1954
West Riding Consultative Committee for Education	1Mr. A. A. EVANS	Mar., 1953
W.R. of Yorkshire (Northern Section) Committee of the National Register of Archives	{ Professor A. J. BROWN Professor LE PATOUREL Mr. B. S. PAGE	
Wool Textile Research Council	{ THE VICE-CHANCELLOR Professor SPEAKMAN	

Appointment expires

Yorkshire Board of Legal Studies	{ 1The VICE-CHANCELLOR 1Professor JAMES	June, 1953
Yorkshire Rural Community Council	{ 3Mr. A. H. DAINTON 3Mr. W. P. BAKER	May, 1954
Yorkshire Council for Further Education	{ 3The VICE-CHANCELLOR 3Professor SPEAKMAN	Mar., 1953
do. Advisory Committees—		
Administrative Committee	3Professor R. H. EVANS	Mar., 1953
Advanced Chemistry	3Dr. N. H. CHAMBERLAIN	Mar., 1953
Agricultural Education (Consultative Committee)	Professor MACGREGOR	
Coal Mining	3Professor J. T. WHETTON	Mar., 1953
Commerce	Professor A. J. BROWN	Mar., 1953
Educational Activities among Adults	3Dr. S. G. RAYBOULD	Mar., 1953
Electrical Engineering	3Professor G. W. CARTER	Mar., 1953
Fuel	3Professor A. L. ROBERTS	Mar., 1953
Gas	3Professor A. L. ROBERTS	Mar., 1953
Leather Industry	3Professor DONALD BURTON	Mar., 1953
Mechanical Engineering	3Professor CHRISTOPHERSON	Mar., 1953
Metallurgy	{ 3Professor ROBERTS 3Dr. N. J. PETCH	Mar., 1953
Textiles	3Mr. W. J. ONIONS	Mar., 1953
York (Holgate Hill) Settlement	1Mr. E. A. VAUGHAN	Jan., 1953
Yorkshire Institute of Agriculture—Joint Education Committee	Professor COMBER	
Zion Sunday School Fund	Professor REID	

G. Representatives of the Institute of Education on the Governing Bodies of Member Training Colleges.

Bingley Training College	Professor J. W. HARVEY
Bretton Hall	Professor W. R. NIBLETT
Huddersfield Training College	Mr. A. A. EVANS
North Riding Training College	Dr. S. G. RAYBOULD
Ripon Training College	Mr. A. A. EVANS
St. John's College	Professor W. R. NIBLETT
Yorkshire Training College of Housecraft	Lady OGILVIE (University representative).

External Examiners

Faculties of Arts, Economics and Commerce, and Law

Greek : **Latin* : **English Literature* : Professor V. de S. PINTO, The University, University Park, Nottingham.*English Language* : Mr. G. N. GARMONSWAY, King's College, London.*Phonetics* : Mr. J. CARNOCHAN, School of Oriental and African Studies, London, W.C.I.*Icelandic* : Vacant.*French* : **German* : Professor L. A. WILLOUGHBY, The University of London, Senate House, London, W.C.I.*Aramaic* : **Hebrew and Arabic* : Professor G. R. DRIVER, Magdalen College, Oxford.*Russian* : **Spanish* : **Portuguese* : Professor W. C. ATKINSON, The University, Glasgow.*Italian* : **History (Modern)* : **History (Ancient and Medieval)* : **Philosophy* : Professor O. de SELINCOURT, University of South Wales, Cardiff.*History of Religion and Philosophy of Religion* : **Old Testament History and Religion* : **New Testament Language and Literature* : **Church History* : **Biblical and Historical Theology* : **Social Studies* : Professor W. J. M. MACKENZIE, The University, Manchester.*Social Anthropology* : **Social Medicine* : **Geography* : **Music* : Dr. WILLIS GRANT, 7, Woodbourne Road, Edgbaston, Birmingham, 15*European Civilisation* : Mr. H. SYKES DAVIES, St. John's College, Cambridge.*Education* : *

* To be appointed.

Physical Education : Mr. L. E. LIDDELL, King's College, Newcastle-upon-Tyne.

Economics : Mr. E. J. M. BUCKATZSCH, 7, Tackley Place, Oxford.

Law : Professor B. A. WORTLEY, The University, Manchester.

Fine Art : Mr. ANTHONY BERTRAM, Manor House, Bignor, Pulborough, Sussex.

Psychology : Professor D. W. HARDING, Bedford College, London.

Faculty of Science

Mathematics : *

Statistics : Mr. D. G. KENDALL, Magdalen College, Oxford.

Physics : *

Organic Chemistry : Professor E. D. HUGHES, University College, London.

Inorganic and Physical Chemistry : Mr. R. P. BELL, Balliol College, Oxford.

Zoology : Professor J. Brough, University College of South Wales, Cardiff.

Botany : *

Geology : *

Biochemistry : *

Anatomy : *

Pharmacy : Professor J. P. TODD, Royal Technical College, George Street, Glasgow, C.I.

Faculty of Technology

Civil Engineering : Professor J. L. MATHESON, The University, Manchester.

Mechanical Engineering : Professor S. J. DAVIES, King's College, The Strand, London, W.C.2

Electrical Engineering : Professor EMRYS WILLIAMS, University College of North Wales, Bangor.

Mining and Mine Surveying : Professor E. L. J. POTTS, King's College, Newcastle-upon-Tyne.

Gas Engineering : Fuel : *

Metallurgy : Professor A. G. QUARRELL, The University, Sheffield.

Chemical Engineering : *

Colour Chemistry and Dyeing : Professor R. D. HAWORTH, Department of Organic Chemistry, The University, Sheffield.

Leather Industries : *

* To be appointed.

- Textile Industries* : Professor W. E. MORTON, The College of Technology, Manchester, 1.
Agriculture : Professor J. MORRISON, The Queen's University, Belfast.
Agricultural Chemistry : Professor R. L. WAIN, Wye College, University of London, Ashford, Kent.
Agricultural Botany : Professor K. W. BRAID, The West of Scotland Agricultural College, Glasgow.
Agricultural Zoology : *
Agricultural Economics : Professor E. THOMAS, The University, Reading.
Agricultural Bacteriology : Mr. D. A. MACKENZIE, The University, Aberdeen.

Faculty of Medicine

- Anatomy* : Professor G. M. WYBURN, The University, Glasgow.
Physiology : Professor J. M. PETERSON, University College, Cardiff.
Pharmacology : Professor A. D. MACDONALD, The University, Manchester.
Pathology : *
Bacteriology : *
Medicine : Professor C. BRUCE PERRY, The University, Bristol.
Pædiatrics : Dr. C. F. HARRIS, St. Bartholomew's Hospital, London.
Dermatology : Dr. G. B. MITCHELL-HEGGS, St. Mary's Hospital, London.
Surgery : *
Obstetrics and Gynæcology : Professor T. N. A. JEFFCOATE, The University, Liverpool.
Forensic Medicine : Dr. K. SIMPSON, Guy's Hospital, London.
Public Health : Professor W. HOBSON, The University, Sheffield.
Nursing : Miss E. S. PREDDY, Radcliffe Infirmary, Oxford.
Miss A. ESCOLM, The Hospital, Scarborough.
Psychological Medicine : Professor H. MILLAR, The University, Aberdeen.
Dental Subjects : Professor R. BRADLAW, Sutherland Dental School, Newcastle-upon-Tyne.

* To be appointed.

TERMS OF THE UNIVERSITY FOR THE SESSION 1952-53

The University session, or academic year, is divided into three terms as follows :

The First Term . . from Tuesday, 7th October, 1952,
to Friday, 19th December, 1952.

The Second Term from Tuesday, 13th January, 1953,
to Friday, 20th March, 1953.

The Third Term . . from Tuesday, 21st April, 1953,
to Friday, 3rd July, 1953.

The vacation begins on the day after the last day of each term.

REGULATIONS CONCERNING QUALIFICATIONS AND PROCEDURE FOR ADMISSION

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.

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

Except in cases specially approved by the Vice-Chancellor, students must have reached the age of 17 years before being admitted.

Application

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

Applicants who are under the age of 19 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 Head Master or Head Mistress of the school or the Head of the institution to provide a statement as to their suitability for admission.

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

Applicants whose native language is not English must provide evidence that they have a sufficient knowledge of both written and spoken English.

Applications for admission must be made on the appropriate forms.

The last dates for the receipt of applications for admission at the beginning of a session are :—

For applications for courses in Medicine and Dentistry,
30th April ;

For applications from persons resident overseas, 31st
May ;

For all other applications, 30th June.

Matriculation

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.

The University imposes certain additional requirements with respect to admission to read for degrees in certain Faculties and Departments. Particulars may be obtained from the Registrar.

Registration

Applicants who have been accepted for admission at the beginning of the session shall present themselves for registration on one of the following days :

Monday, 6th October, 1952

Tuesday, 7th October, 1952

Wednesday, 8th October, 1952

and will be informed individually of the times at which they shall attend.

Before registration all students shall sign a declaration that they will observe the statutes, ordinances and regulations of the University for the time being in force.

The Deans and Sub-Deans of the Faculties, the Tutor of Women Students, and Heads of Departments and their staffs will be present at the time of registration to advise students on their schemes of study. Women students shall consult the Tutor of Women Students with regard to their schemes and all students must obtain approval of the courses which they wish to pursue.

Students shall then pay the appropriate fees to the office of the Bursar and will be registered as students of the University.

Except with the special permission of the Vice-Chancellor, students shall not attend any lecture, laboratory or other class until they have received class tickets which must be presented to the Heads of Departments concerned before beginning any course of study.

GENERAL REGULATIONS

1. Of residence

Students in regular attendance shall live with their parents, or with relatives or personal friends or in a Hall of Residence of the University or in a hostel or lodgings approved by the University.

Students who take lodgings which have not been approved by the University shall report the address of the lodgings immediately to the Lodgings Warden for approval. Students will not be permitted to continue to reside in lodgings which are not approved.

2. Of keeping terms

Students shall enter punctually at the beginning of each term. Any student who does 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 and in cases of illness the communication should be accompanied by a medical certificate.

3. Of attendance

Students shall attend the courses of lectures, laboratory work, tutorial periods, and examinations prescribed in their schemes of study, together with such other lectures, classes or examinations as may be directed, regularly, punctually, and in an orderly manner.

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

4. Of 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.

5. 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 1st November in 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.

6. Of addresses

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

7. Of dismissal

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

8. Of damage

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

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

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

10. Of publication

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

11. Of study during the vacations

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

12. Of academic dress

Academic dress shall be defined in three ways as follows :

(a) Academic undress.. A black gown.

(b) 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.

(c) 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. |
| 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 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. 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 Letters, Laws, Science and Medicine	Scarlet with facings and sleeve linings of the shade of green appropriate to the Faculty.

The caps of Licentiates, Bachelors and Masters (both men and women) shall be of the usual hard square pattern.

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

The caps of Doctors of Letters, Divinity, 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 are present at the University when Congregations are held in order to robe persons who are to be presented for degrees.

13. 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, and for the Crest on a Wreath of the Colours A Greek Sphinx sejant Gules."

REGULATIONS AND INFORMATION 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 the appropriate examination fees.

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

5. Examination Fees

Examination fees are payable in advance at the time of application for admission to the examinations. No fee will entitle a candidate to admission to more than one examination. Unless otherwise stated the fee payable for a subsequent examination is the same as that for the first.

Students who are exempt from any examination are required to pay the normal examination fee.

Students who are permitted to take an examination in two or more parts will be required to pay the full fee for the examination when applying for admission to the first part.

Particulars of fees payable will be found on pages 248 and following :

6. Conduct of examinations

Candidates whose applications for admission to degree examinations have been accepted will be sent a copy of the examination time-table showing the dates, times and places of examination.

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

Together with the time-table candidates will be sent a copy of instructions regarding the detailed conduct of examinations with which they should familiarise themselves.

Results of examinations will be published as soon as possible after they have been approved by the Senate and 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 the following entrance, senior and graduate Scholarships, Fellowships and Prizes.

Entrance Scholarships :

- The Frank Parkinson Entrance Scholarships
- The Corbet and Henry Woodall Scholarship in Gas-Engineering
- The William Cartwright Holmes Scholarship in Gas Engineering
- The Blanche L. Leigh Scholarship in Music
- The William Arthur Crabtree Scholarships
- The Boothman Scholarships
- The William Briggs Scholarships
- The John Gilbert Vause Memorial Scholarship
- The John Deakin Heaton Scholarship
- The James Graham Memorial Entrance Scholarship
- The Benjamin Bland Entrance Scholarship
- The Shell Scholarships in Mining or Petroleum Engineering
- The Doctor Walter Hargreaves Scholarship
- The Richard Sutcliffe Scholarship in Mining
- The North Western Gas Board Scholarships in Gas and Chemical Engineering

The Charles Brotherton Scholarships in Chemical Engineering
and Gas Engineering
The Power Gas Corporation Scholarship
The Charles Brotherton Scholarships in Colour Chemistry
The Matthews Scholarship in Colour Chemistry and Dyeing
The West Coast Tanneries Ltd. Scholarship
The Woolmen's Company Scholarship
The Courtauld Entrance Scholarships in Textile Technology
The Joe Haley Scholarship
The Edward Baines Scholarship

Senior Scholarships :

The Frank Parkinson Senior Scholarships
The Emsley Scholarship
The Edward Baines Scholarship
The Charles Wheatley Scholarship
The William Summers Scholarship
The Ackroyd Scholarships
The Brown Scholarships
The Lowson Scholarship
The Craven Scholarship
The Salt Scholarship
The Medical Scholarship
The Infirmary Scholarship
The Stephenson Clarke Scholarship
The Alfred Lund Scholarship
The Clothworkers Scholarships

Graduate Scholarships :

The University Scholarships
The West Riding Research Grants
The Frank Gott Scholarship
The John Rutson Scholarship
The Bodington Memorial Fund
The Lady Elizabeth Hastings Senior Scholarship
The Walters Scholarship
The Harold Tetley Post-graduate Studentship
The Dean Scholarship
The Brotherton Research Scholarship
The 1851 Exhibition Industrial Bursary
The Arthur Smithells Scholarship
The Coal Tar Research Association Scholarships
The Lowson Scholarship
The Richard Reynolds Scholarship
The Yorkshire Copper Works Research Scholarship
The Smith-K.L.G. Research Scholarship
The Cement and Concrete Association Scholarship
The Clothworkers Research Scholarship in Colour Chemistry and Dyeing

The Clothworkers Research Fellowships and Scholarships
in Textile Industries
The International Wool Secretariat Scholarships
The Sandoz Research Scholarship
The Clothworkers' Research Fellowships and Scholarships
in Colour Chemistry
The Hickson and Welch Research Scholarship
The Lady Moynihan Scholarship
The Legg Travelling Scholarship
The Freeman Fund

Fellowships :

The University Fellowships
The Kemsley Travelling Fellowship
The Henry Ellison Fellowships
The Imperial Chemical Industries Ltd. Research Fellowships
The Turner and Newall Research Fellowship
The Gas Research Fellowship
The British Coke Research Fellowship
The Textile Chemistry Research Fellowship
The Ackroyd Memorial Fellowship
The Bradford Dyers' Association Fellowships in Dyeing and
Textile Finishing
The Procter Memorial Fellowship
The Boltonia Fellowship
The Sir Swire Smith Fellowship
The Charles Edwyn Vaughan Fellowship
The Cancer Research Fellowships
The Thorp Fellowship in Forensic Medicine and Public
Health
The Centenary and Hardwick Fellowship

Prizes :

The Gladstone Memorial Prize
The Connal Prize
The Edwards Prize
The Ripon English Literature Prize
The Lucy Whitmell Prize
The David Forsyth Prize
The Dorothy Wharton Memorial Prize
The Gerald Veale Prize
The Brodetsky Prize
The J. B. Cohen Prize
The Whytlaw-Gray Prize
The Foyle Prize
The Imperial Chemical Industries Ltd. Prizes in Mining
The British Ropes Ltd., Mining Prize
The Barker Prizes
The Seton Prizes
The British Oil and Cake Mills Prize

The Yorkshire Union of Institutes Prize
The Heseldin Prize in Civil Engineering
The Lawrence Ingle Prize
The Littlewood Prize in Anatomy
The Birkett Prize
The Hardwick Prize in Clinical Medicine
The McGill Prize in Clinical Surgery
The Hillman Prize in Clinical Medicine
The Scattergood Prize in Obstetrics and Gynæcology
The Edward Ward Memorial Prize in Surgical Anatomy
The West Riding Panel Practitioner's Prize
The Waddington Prize in Anatomy
The S. Thompson Rowling Prize in Anæsthetics
The Percy Leigh Prize in Clinical Dental Surgery
The Yorkshire Agricultural Society Medal
The William Hey Medal
The Charles Rippon Medal
The Percy Leigh Medal
The Leblanc Medal
The Jamieson Medal
The Worshipful Skinners' Company Medal

Further information concerning these awards will be found on pages 760 to 839.

Scholarships tenable at the University are also offered by the Leeds City Council and the County Councils of the North, East and West Ridings of Yorkshire.

Further information may be obtained as follows :

concerning scholarships of the Leeds City Council—
from the Director of Education (Higher Section),
Education Offices, Calverley Street, Leeds, 1.

concerning scholarships of the West Riding County
Council—from the Chief Education Officer, Education
Department, County Hall, Wakefield.

concerning scholarships of the North Riding County
Council—from the Secretary, Education Offices,
County Hall, Northallerton.

concerning scholarships of the East Riding County
Council—from 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 the following funds :

The Sadler Memorial Fund
 The Walter Garstang Fund
 The Baillie Memorial Fund
 The Cobb Memorial Fund
 The J. H. Priestley Memorial Fund
 The Wheeler Memorial Fund
 The Mouat Jones Travel-Bursaries
 The Students' Aid Fund
 The Leighton Exhibitions
 The Leeds City Council Fund
 The John Goodman Testimonial Fund
 The Senior Scholarship Funds Maintenance Grants

Further information concerning these funds will be found on pages 839 to 846.

Financial grants or loans to students may also be made by Local Government 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 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. J. H. Higginson, M.A.,
 M.Ed.
 WOODSLEY HALL .. Warden : Mr. D. Appleyard, M.Sc.

The Halls of Residence for women are :—

ELLERSLIE HALL .. Warden : Miss Audrey Lumsden, M.A.
 LUPTON HALL .. Warden : Miss D. Jean Phillips, B.Sc.,
 A.K.C.
 OXLEY HALL .. Warden : Miss Lettice M. Pither.
 TETLEY HALL .. Warden : Miss Bettine M. Moody, B.A.
 WEETWOOD HALL .. Warden : Miss M. Brenda Carey, LL.B.

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.

Women students are not normally expected to live in lodgings, but 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 and Students' Societies

The University Union comprises all recognised athletic clubs and a very wide range of societies.

The colours of the University Union are green, white and maroon.

The formation of all societies is subject to the final approval of the Union committee. Such societies are divided as follows :

- (i) Incorporated Union societies ;
- (ii) Union societies ;
- (iii) Recognised bodies ;

and the following regulations shall apply :

(i) INCORPORATED UNION SOCIETIES

1. The Union shall accept full financial responsibility for all such societies.
2. All members of the Union shall be members of such a society without further fee.
3. The President of the Union shall be ex-officio President of such societies.
4. The other officers and members of the Committee shall be elected at the Annual General Meetings of such societies.
5. The Constitution of all such societies shall be approved individually by the Union Committee.

(ii) UNION SOCIETIES

1. Such Societies shall have the right to use a room in the University Union for the purpose of assembly.
2. Such Societies shall conform to the Drafted Constitution for Societies.

NOTE.—The Union is free to support any Union society by any means within its power, such as financial assistance, the use of Union Rooms, and publication of information concerning the Society in the Handbook.

(iii) **RECOGNISED BODIES**

The Union Committee has authority to extend the official recognition of the Union to such organised bodies as it may consider worthy. This recognition will be extended to those bodies whose nature and objects preclude their being included in the preceding two paragraphs. The constitution of bodies seeking recognition must be submitted to the Union Committee for consideration. Recognition does not necessarily imply that the Union accepts any responsibility for the body recognised, but the Union Committee may, at its own discretion, assume a limited amount of responsibility. It may also grant money. Recognised bodies are not entitled to use the name "Leeds University Union."

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. A. N. Wilson, B.A., B.D., 18, Estcourt Terrace, Headingley, Leeds, 6. (Tel. 55635)

Church of England

The Rev. L. G. R. Howell, 74, Clarendon Road, Leeds, 2. (Tel. 29609)

Congregational Church

The Rev. Dr. H. F. Leatherland, M.A., B.D., 3, Ashwood Terrace, Leeds, 6. (Tel. 52528)

Methodist Church

The Rev. Reginald Kissack, M.A., B.D., Laurel Bank, Laurel Mount, St. Mary's Road, Leeds, 7. (Tel. 42561)

Presbyterian Church

The Rev. T. D. Pollock, M.A., 21, Montpelier, Cliff Road, Leeds, 6. (Tel. 53806)

Roman Catholic Church

The Rev. S. Dukes, S.J., 25, Clarendon Place, Leeds, 2. (Tel. 27421)

United Hebrew Congregation

The Ministers, United Hebrew Congregation, Brandsby Lodge, Chapeltown Road, Leeds, 7. (Tel. 41351)

6. Physical Education

The University provides extensive facilities for physical education of which students are strongly urged to take advantage. Opportunities for gymnastics, athletics, games and organised outdoor activities of many

kinds are available, and the gymnasium is open without fee to all members of the University Union except when reserved for students taking special courses of study.

Students are advised to consult the Director of Physical Education when they present themselves for registration at the beginning of the session.

7. Student Health

The department of Student Health undertakes a routine medical examination of all students during their first year and a subsequent examination during their second and third years. All students are offered the opportunity of an annual chest X-ray examination by the mass radiography unit.

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. During convalescence it is possible, in some cases, for them to continue their studies.

Provision has been made for students resident in certain of the Halls of Residence to register under the National Health Service scheme with the University Medical Officer. Other students are advised to register with a local general practitioner.

8. Military Education

The University provides facilities for military education through the University Training Corps (T.A.) which, under its earlier name of the Officers Training Corps 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. Further information may be obtained from the commanding officers.

9. The Appointments Board

The University has set up an Appointments Board to give information and advice on careers and help in obtaining appointments to present and past students.

A library of information on careers is available for consultation in the offices of the Board and students are invited to register their names with the secretary not later than the beginning of their last academic year.

Registered students will be sent particulars of suitable vacancies notified to the Board by employers and assistance will also be given in finding suitable vacation work in furtherance of their careers.

The services of the Board are free and further information may be obtained from the secretary.

10. The Warden of Overseas Students.

In order to ensure that students from overseas are able to take the fullest advantage of their stay in this country, the University has appointed a Warden of Overseas Students. The appointment is, at present, held by Mr. S. G. Richardson, Senior Lecturer in Mechanical Engineering, who will act as adviser to students from overseas who are invited to approach him in connection with any matters on which they may desire advice or assistance.

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

11. The Refectory

The University refectories provide lunches from 12 noon to 2 p.m. and teas from 4.45 p.m. to 6.30 p.m. daily during the terms. Cold meats, tea, coffee and other light refreshments may also be obtained in the cafeteria of the University Union.

12. Cloakroom accommodation

Lockers in the cloakrooms of the Parkinson Building may be rented for a session or part of a session at a cost of five shillings. Students should apply to the Head Porter who, upon payment of a deposit of 15s. will lend a key which remains the property of the University. The balance of the sum deposited (if any) will be repaid

provided the key is returned not later than one week from the end of the session. Loss of a key should be reported to the Head Porter at once.

13. The Universities' Year Book

A volume entitled "The Year Book of the Association of Universities of the British Commonwealth" is published annually in March and contains an epitome of the Calendars of the Universities of the British Commonwealth and a brief record of the developments in each University, together with a number of Appendices which include among other useful information 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, details of open Fellowships, Post-graduate Scholarships and Grants for advanced study and research and short descriptions of the centres of scientific research and information within the Commonwealth. Copies (£2 2s. and postage) may be obtained from the Association of Universities of the British Commonwealth, 8, Park Street, London, W.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 £1 8s. net.

FEES*

All Fees are payable to the Bursar. Cheques should be made payable to "The University of Leeds," and crossed.

The University reserves the right to revise the fees specified below at any time, whether in the case of new students or those who have already begun their courses.

Students attending a degree or diploma course should note that normally the following fees are payable: Registration fee; Composition fees (including Union fees); Examination fees; Graduation fee; Deposits (in the case of students in Medicine, Dentistry, Science and Technology). In order to ascertain the total fees payable, therefore, reference should be made to the appropriate sections below.

1. Registration Fee

All students proposing to attend at the University for more than six hours a week, or to attend a course for which a composition fee is charged, are required to pay a Registration Fee of £2 when their application for admission to the University is accepted. The Registration Fee payable by overseas students will be £5 except in the case of Research and Ph.D. students who will pay £2.

2. Library Fee

Students who have paid a composition fee for the year, or have paid class fees of £4 or upwards, are entitled to the use of the Library during a session without further payment. All other day students will be admitted to the use of the Library on payment of 2s. 6d. a term or 5s. a session, in addition to their class fees.

3. University Union Fee

The annual subscription to the University Union is £5.

Unless otherwise stated, the Union subscription is included in the Composition Fees. The subscription is payable by all students reading for degrees and also, except in special cases to be determined by the Vice-Chancellor, by all students attending the

*For Medical and Dental Course fees see separate prospectuses.

University for more than six hours a week who have not paid the composition fee for the year. The subscription entitles students to the use of the New Union Building (which is supplied with daily papers, periodicals, &c.), to free instruction in the University gymnasium and to the use of the athletic grounds, fives courts and tennis courts.

Students and members of the staff who have paid five annual subscriptions, or the equivalent thereof, shall become Life Members of the Union and shall have all the privileges of ordinary members, but shall not take part in games and athletic sports unless they pay an annual fee of one guinea.

The Union Fee for students who attend for only part of a session and who do not pay a Composition Fee shall be £3 10s. od. for two normal terms and £1 15s. od. for one normal term.

4. Lecture and Laboratory Fees

(a) General Regulations.

The composition fees for lecture and laboratory courses may be paid either sessionally, in advance, or (with certain exceptions) terminally by instalments. Fees paid by instalments are at a slightly higher rate than those paid in advance. The terminal instalment scales of fees are not applicable to students ordinarily resident outside the British Isles; such students must pay fees sessionally in advance.

A student ceasing, for any reason whatsoever, to attend at the University during the session has no claim to a return of fees.

A student who elects to pay composition 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.

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 receipt entitling the student to attend such courses. This receipt must be presented by the student before commencing a course to the Professors or Lecturers whose classes or lectures he is authorised to attend.

(b) Composition Fees for Complete Courses.

Any student attending a degree course, or any other course which is regarded as a full course, will be required to pay the composition fee appropriate to the Faculty in which he is a student.

The composition fees include the subscription to the University Union unless otherwise stated.

Students taking courses in Agriculture, Geology, Botany, Zoology, Civil Engineering, Mining, Geography, and certain modern Languages, etc., are normally called upon to meet expenditure not included in the Composition Fees mentioned in the following pages. For example, students in certain departments of Science and Technology will incur travelling and residential expenses in connection with field work undertaken in various parts of Yorkshire or even further afield. Students in certain Language departments are required to spend one term of their course abroad.

Further information in regard to these additional costs may be obtained from the departmental prospectuses and from the Heads of the Departments concerned.

Students in the Faculty of Arts who take classes or laboratory work or both in the Faculty of Science for more than nine hours a week will be charged the composition fee for Science.

The composition fee for Applied Science (Technology) will be applicable to all students whose courses of study entail an average attendance of six hours a week or more per session in one or more of the Technological departments.

Students of the Engineering, Mining, Fuel, and Colour Chemistry Departments will be charged the Technological composition fee for each year of the course.

Subject to the foregoing, students paying a composition fee of £36 or upwards will be admitted without further charge to any additional classes for their attendance at which they have obtained the sanction of the Vice-Chancellor and the Head of the Department.

Students who have paid the composition fee, and who have been allowed to work in one of the laboratories during the vacation, will be charged an additional fee (see Section 4 (c) (iv)).

SCALE OF COMPOSITION FEES.

(To be read in conjunction with Fees regulations, Sections 4(a) and (b)).

		Fee when paid in terminal instalments on the 1st day of each term		
Fee when paid sessionally in advance. £		1st Term £	2nd Term £	3rd Term £
(i) Arts				
For each of first three sessions	36 each session	17	12	9
4th session ..	30* „	15	9	7
(ii) Science				
For each of first three sessions	44† „	21	15	10
4th session ..	36* „	17	12	8
(iii) Technology†				
For each of first three sessions.	48 „	23	17	10
4th session ..	40* „	20	12	9

* Applicable only in the case of a student who for three successive years has paid the composition fee appropriate to any one Faculty.

† Students working in the Laboratories of the Chemistry, Botany or Fuel Departments will pay a deposit of 50s. to cover the cost of replacing broken apparatus, etc. Students in the Chemistry and Fuel Departments will also pay a rental of 15s. for the use of a set of apparatus. The rental and the deposit will be paid at the same time as the Composition Fee. The deposit will be refunded at the end of the session after deduction of cost of breakages. When a student's breakages exceed the sum of 50s., a further deposit of 50s. will be payable.

‡ (a) Students from overseas admitted to the Textile Department will be required to pay, in addition to the Technological composition fee, a special fee of £10 a session for the use of technical equipment and apparatus. This special fee will be payable at the same time as the composition fee.

(b) All students in the Mining Department will pay a deposit of £2 from which the cost of stationery, laboratory note books and diary of practical training will be deducted. The balance will be returned in the event of no damage being done to instruments, etc., but the students' liability is not limited to the amount of the deposit.

Department of Education.**(1) Recognised Students in Training.****(a) Undergraduate Courses—Arts and Science.**

The fee, as stated on the previous pages for Arts and Science, will be reduced by the amount of grant paid to the University by the Ministry of Education.

(b) Year of professional training.

The fee is paid to the University by the Ministry of Education.

(2) Non-Recognised Students in Training.

Arts and Science.

Fees as stated for Arts and Science on the previous pages.

Graduate Certificate in Education.

£46 for 3 terms if paid in one sum. If paid in terminal instalments—1st term, £23; 2nd term £15; 3rd term £10

Commerce. Degree Course: The Arts fee as given on page 25 will be payable, unless:

(1) one of the subjects under v. (a, b, c or d) is offered (see Final B.Com. Regulations), in which case the fee to be paid will be the Technology fee for each session devoted to the study of that subject; or

(2) the course taken necessitates attendance of more than 9 hours a week in one or more of the Science Departments, when the Science fee will be payable.

Mathematics. Candidates for the degree of B.Sc. in Special Studies in Mathematics:

	Fee when paid sessionally in advance.			Fee when paid in terminal instalments on the 1st day of each term		
				1st Term	2nd Term	3rd Term
1st session	..	44	..	21	15	10
2nd session	..	44	..	21	15	10
3rd session	..	36	..	17	12	9
4th session	..	30	..	15	9	7

Theology.

Course for B.D. degree :

- (1) Candidates who have not graduated in the University of Leeds :

Registration fee : £2 (if not previously paid).

Fees at the scale set out in Section 4 (c) (i) (separate fees scale) for any attendance at lectures or classes in the University, provided that the minimum fee payable by any candidate (in addition to the registration fee) shall be £9 8s. per session (including Union Fee).

- (2) Candidates who are graduates of the University of Leeds :

Fees at the scale set out in Section 4 (c) (i) (separate fees scale) for any classes attended.

Candidates who study in a department but do not attend regular courses of instruction :

Fee for supervision £9 (including Union Fee).

Diploma in Social Studies.

- (1) Two Sessions' Course (including practical work) :

Fee if paid in one sum in advance £31 each session (including fee of £1 1s. for work in the long vacation).

If paid in terminal instalments : 1st term £15. 2nd term £11, 3rd term £7.

- (2) One Session's Course (including practical work) .

- (a) Payable by a student who during three successive sessions has paid to this University a composition fee of £36 or more :

Fee if paid in one sum in advance £33.

Fee if paid in terminal instalments : 1st term £16, 2nd term £10, 3rd term £8.

- (b) Payable by other students :

Fee if paid in one sum in advance £39.

Fee if paid in terminal instalments : 1st term £18, 2nd term £13, 3rd term £10.

NOTE.—Non-Diploma students taking advantage of the facilities for practical social work will be charged a fee of £3 a session in addition to any other fee paid by them.

Diploma in Geography.

(1) In the case of candidates who are graduates of the University of Leeds, and who have previously paid to this University three composition fees of not less than £36 each :

(a) If the course is completed in one year : £30.

(b) If the course is spread over two years : £18 a year.

(2) Other candidates :

Registration Fee : £2 (if not previously paid).

(a) If the course is completed in one year : £36.

(b) If the course is spread over two years : £21 a year.

Diploma in Hebrew.

Tuition fee £9 9s. a Session for a Course not exceeding five hours a week.

Tuition fee £18 18s. a Session for a Course not exceeding 10 hours a week where the first and second years' course is taken in one Session.

Examination fee for the Diploma—£3.

Diploma in Spanish.

Tuition fee £5 5s. a session.

Examination fee for the Diploma—£3.

Law. Course for degree of LL.B., £16 11s. per session, payable in advance ; Statutory course for Certificate under the Solicitors Act, 1932, £15 15s. (excluding Union fee), payable in advance for the full course if taken during three consecutive terms. (An additional fee calculated at the separate fee rate (see Section 4 (c) (i)) will be charged if the course is spread over a longer period than three consecutive terms.)

Master of Education.

(1) Candidates who are not graduates of the University of Leeds :

Tuition fee £34 (including Union fee) payable in two instalments at the beginning of the first and second sessions.

- (2) Candidates who are graduates of the University of Leeds :

Tuition fee £30 (including Union fee) payable in two instalments at the beginning of the first and second sessions.

Master of Laws.

- (1) Candidates who have not graduated in the University of Leeds :

Fees at the scale set out in Section 4 (c) (i) for any attendance at lectures or classes in the University, provided that the minimum fee payable by any candidate (in addition to the registration fee) shall be £9 8s. per session (including Union Fee).

- (2) Candidates who are graduates of the University of Leeds :

Fees at the scale set out in Section 4 (c) (i) for any classes attended.

Candidates for the degree of LL.M. by dissertation who do not attend a regular course of instruction :

Fee for supervision £9 per session (including Union fee).

Master of Arts or Commerce.

- (1) Candidates who have not graduated in the University of Leeds :

1st Year ..	Tuition fee, £19 (including Union fee).
2nd Year ..	Do. £19 (including Union fee).
3rd Year ..	Do. £19 (including Union fee).

- (2) Candidates who are graduates of the University of Leeds :

Fees at the scale set out in Section 4 (c) (i) for any classes attended.

Candidates for the degree of M.A. or M.Com. by dissertation who do not attend a regular course of instruction :

Fee for supervision £9 per session (including Union fee).

		Graduates of Leeds University. Sessional Fee.* (including Union Fee)	Other candidates. Sessional Fee.* (including Union Fee)
<i>Doctor of Philosophy.</i>			
Faculty of :		£	£
Arts		16	18
Science (Maths.)		16	18
Science (other than Maths.)		26	29
Technology†		26	29

Fees for lectures and laboratory work not expressly recommended by the head of the department concerned will be at two-thirds the scale set out in Section 4 (c) (i).

Master of Science.

- (1) Candidates who have not graduated in the University of Leeds or who have not been awarded a Diploma in Applied Science under the conditions stated in paragraph (2) below :

(a) M.Sc. (Maths.) :

Fees at the scale set out in Section 4 (c) (i) for any attendance at lectures or classes in the University, provided that the minimum tuition fee payable by any candidate (in addition to the Registration fee), shall be £9 8s. per session (including Union fee).

(b) Candidates for M.Sc. in Departments other than Mathematics :

Fees at the scale for Research Students under Section 4 (d) (ii).

- (2) Candidates‡ who are graduates of the University of Leeds ; or

Candidates‡ who have been awarded a Diploma in Applied Science in the University of Leeds not

*These fees will be proportionately reduced where a candidate is in attendance for only a part of a session having received permission to pursue part of the course in another University or Institution. A Supervision fee will be payable by such candidates while not in attendance at this University at the nominal rate of £2 a session.

† Students from overseas admitted to the Textile Department will be required to pay, in addition, a special fee of £10 a session for the use of technical equipment and apparatus. This special fee will be payable at the same time as the composition fee.

‡ Including candidates for M.Sc. (Maths.).

less than two years before proceeding to the degree and whose candidature has been approved by the Senate :

If research is undertaken in the University, fees will be payable at the scale for research students under Section 4 (d) (ii).

If research is undertaken outside the University, under the supervision of a member of the Staff of the University, or if the candidate attends the University for lectures, fees will be payable at the scale set out in Section 4 (c) (i), provided that the minimum fee payable in respect of supervision or lectures shall be £9 8s. per session, including Union Fee.

Agriculture.

	Fee when paid sessionally in advance. £	Fee when paid in terminal instalments on the 1st day of each term		
		1st Term	2nd Term	3rd Term
Degree Course :				
1st session	44	21	15	10
2nd, 3rd & 4th sessions	48	23	17	10
Post-graduate Diploma :				
Agriculture (Farm Management), Agri- cultural Bacteriology, Botany, Chemistry, Economics, Zoology, and Plant Pathology	48	23	17	10

Students who enter upon a four years' course may elect to pay in their first year £48, being the composition fee for the Faculty of Technology, instead of £44, which is the composition fee for the Faculty of Science. They will then be entitled in their fourth year to a reduction of the fee from £48 to £40 (For terminal instalment scale see Section 4 (b).)

Students in the department of Agriculture, in addition to purchasing a recognised set of apparatus, will also pay a deposit of 50s. at the beginning of each session to cover the cost of replacing broken apparatus. This deposit will be paid with the tuition fee, and will

be repaid at the end of each session after deduction of the cost of breakages.

Textile Industries.

- (a) Course for B.A. in Textile Design :
Composition fee £46 per session.
- (b) Course for P.G. Diploma in Textile Industries :
Composition fee £48 per session.

B.Sc. (Physiology or Bacteriology). Students who combine a course in Physiology or Bacteriology with the Medical course will be required to pay the usual Medical composition fee, and at the commencement of the year in which a student enters upon the Physiology or Bacteriology course for the Honours degree, a **supplementary composition fee will be payable, namely, £44 if paid in one sum or, if paid in terminal instalments, 1st term £24, 2nd term £21.** This supplementary fee will cover all necessary attendance in the subjects of the course.

Medicine and Dentistry. For Medical and Dental Course fees, see separate prospectuses.

- (c) Fees for lectures and laboratory work
when paid for separately.†

(i) The following fees, payable in advance, will be charged for lectures and laboratory work when paid for separately, except in the case of classes for which a special fee has been fixed.

First lecture hour per week in a class £4 per session.
Each hour per week beyond the first £2 "
Each hour per week of laboratory work £2 "

For two terms three quarters of these amounts will be charged. For one term half of these amounts will be charged.

(ii) Students who have taken a degree or a diploma in the technological departments, and who desire to fill in time at the University while waiting for an appointment

† Students from overseas admitted to the Textile Department will be required to pay, in addition, a special fee of £10 a session for the use of technical equipment and apparatus. This special fee will be payable at the same time as the composition fee.

shall, on approval by the heads of the departments concerned, be permitted to attend for short periods in these departments at a fee of £1 per week plus any cost entailed for special material.

(iii) Students who are deemed by the head of the department concerned to be capable of independent work may be admitted to work in vacations only (during such times as the laboratories are open), on the following scale of fees :—

1 day a week	..	..	£1	10	0	per month.
2 days	..	..	£3	0	0	..
3 "	..	..	£4	10	0	..
4 "	..	..	£6	0	0	..
and upwards						

(iv) For students who have paid a Composition Fee in the same session and who are admitted to vacation work the fee will be one pound per month.

(d) Fees for Research Students*

Persons desiring to pursue original research may be admitted as research students upon the following conditions :

(i) Applications for admission as research students must be made to the head of the department concerned. The admission is subject to the approval of the Senate.

(ii) Graduates and advanced students will, if admitted as research students, be charged fees at the following rates† :

			Leeds graduates.			Other than Leeds graduates.
Sessional	..	..	£21	0	0	£24 0 0
Terminal	..	..	£7	5	0	£8 10 0
One month	..	..	£3	10	0	£4 0 0

These fees will include any University lectures or laboratory work recommended by the head of the department.

*In certain special cases, Research Students may pay the fees mentioned under Section 4 (c) (i).

†Plus the Union Fee if a student attends the University for more than six hours a week, unless exemption from payment of the Union Fee is granted by the Vice-Chancellor. In the case of overseas students admitted to the Textile Department, a special fee of £10 a session for the use of technical equipment and apparatus will also be payable.

The fee for any other lectures or laboratory work will be charged at two-thirds the scale set out in Section 4 (c) (i). The sessional research fee will in no case apply to students preparing for a Bachelor's degree unless they have completed the third year course of study in the University, and have paid the appropriate composition fee for three years.

(iii) Persons prosecuting private industrial investigations will, if admitted as research students, be charged £9 a month with additional charge for any special expenditure incurred by the University in connexion with the research.

(iv) Research students who attend for short periods only will not be charged the library fee unless they wish to use the library.

(v) Research students will pay a deposit, as stated below, at the beginning of each session. The deposit, less cost of breakages, will be repayable at the end of the course :

Department of :

Inorganic and Physical Chemistry, £10 ;

Organic Chemistry, Physics, Fuel, Textile, Colour
Chemistry and Dyeing, Leather, Agriculture
Zoology, Botany, £5 ;

Mining, £2.

5. Examination Fees

A fee will not entitle a candidate to admittance to more, than one examination. Unless otherwise stated, the fee for a second or subsequent examination is the same as that for the first. Where a student is exempt from an examination the normal examination fee is payable. All fees are payable in advance.

Degree of B.A.

A fee of £6 payable in two instalments, £3 to be paid when the candidate presents himself for examination at the end of the first session in the University, £3 upon the second occasion on which he presents himself for examination.

In cases where no examination is taken at the end of the first session, a fee of £6 is payable on the first occasion on which the candidate presents himself for examination.

Degree of B.Com.

A fee of £6, payable in two instalments, £3 for the Qualifying examination and £3 for the final examination.

Degree of LL.B.

A fee of £6, payable in two instalments, £3 on presentation for the first examination and £3 at the end of the second session.

Degree of B.Sc.

A fee of £6 payable in two instalments, £3 to be paid when the candidate presents himself for examination at the end of the first session in the University, £3 upon the second occasion on which he presents himself for examination.

In cases where no examination is taken at the end of the first session, a fee of £6 to be paid on the first occasion on which the candidate presents himself for examination.

Degree of B.D.

Qualifying examination, £5.

Degree examination, £5.

For the examination or report upon dissertation for the degree of M.A., M.Sc., M.Ed., M.Com. or LL.M., £5.

For the examination or report upon dissertation for the degree of Litt.D. or LL.D., £15 ; D.Sc., £22 ; Ph.D., £10.

For the Diploma in Social Studies, £3 payable at the end of the first session.

For the Graduate Certificate in Education, £3.

For the Final examination for other Diplomas in the Faculties of Arts, and Economics and Commerce, £3.

Diplomas in Technology, £6, with the following exceptions :—

- (1) The fee for graduates of this University (or for candidates who have paid the full degree examination fee of £6) or for the holders of a diploma of this University is £3.

- (2) If a diploma be granted in addition to the degree on the results of the degree examination, the extra fee entitling to the diploma is £1.
- (3) No additional diploma fee is charged to a candidate who has paid for the degree examination and has been awarded a diploma in place of a degree on the results thereof.
- (4) The fee for the examination for the post-graduate Diplomas in Agriculture (Farm Management), Agricultural Bacteriology, Botany, Chemistry, Economics, Zoology, and Plant Pathology is £3.

Candidates who are allowed to take the Diploma examination in two or more parts will be required to pay the full fee for such examination when entering for the first part.

6. Re-examination Fees

- (i) Degree of B.A.
£1 for each re-examination in each subject ;
- (ii) Degree of B.Com.
£1 for each re-examination in each subject.
- (iii) Degree of B.Sc.
£1 for subject studied for one year
£2 for a subject studied for two years
£3 for a subject studied for three years
Agriculture shall rank as a three-years subject subject for this purpose.
- (iv) Diplomas in Technology :
Fee for re-examination, £3.
- (v) Graduate Certificate in Education :
Fee for re-examination in either part taken separately, £1 10s.
- (vi) Diploma in Social Studies :
Fee for re-examination in either part, £1 10s.
- (vii) Diploma in Spanish
Fee for re-examination, £1.
- (viii) Diploma in Hebrew
Fee for re-examination, £1.

Medical and Dental Course Examination Fees.

See Medicine and Dentistry Prospectuses.

7. Graduation Fees and Convocation Fees

On conferment of a first degree in the University, £7 (including Convocation fee); on conferment of a further degree, £6; but in the case of persons graduating Litt.D., D.D., LL.D., or D.Sc., who have not already graduated Ph.D., M.A., B.D., LL.M., or M.Sc. the fee shall be £12.

8. Residence.

(a) Halls of Residence for Men.

Payable at the beginning of each term if the fee is paid in instalments:—

1st Term	2nd Term	3rd Term	Total Fee
£41	£40	£40	£121

(b) Halls of Residence for Women.

Payable at the beginning of each term if the fee is paid in instalments:

	1st Term	2nd Term	3rd Term	Total Fee
Single study-bedroom ..	£37	£37	£36	£110
Shared study-bedroom ..	£35	£35	£34	£104

(c) Approved lodgings for Women.

Payable by instalments only as follows:—

1st Term	2nd Term	3rd Term	Total Fee
£35 13 0	£32 5 6	£35 13 0	£103 11 6

(d) Approved lodgings for Men.

Students will be provided with the addresses of a number of lodgings and the fees will be in accordance with the charges of the lodgings selected.

Fees are payable by terminal instalments and are normally within the range:

1st Term	2nd Term	3rd Term	Total
£28 19 6	£26 6 6	£28 19 6	£84 5 6
to	to	to	to
£38 12 0	£35 1 0	£38 12 0	£112 5 0

NOTES.—The total sessional fee for residence in Halls may be paid in one sum at the beginning of the first term instead of in terminal instalments. The total fee will then be reduced by £1.

Students who, having already paid a full sessional fee, are permitted to be in residence in Halls for a further period different from, or additional to, the normal terms

will be charged at the rate of £3 10s. a week in the case of men students, and £3 5s. a week in the case of women students.

Women students resident in Halls are required to deposit £1 at the beginning of each session to cover the cost of possible breakages, etc. The deposit will be paid with the residence fee and the unexpended balance will be repaid at the end of the session.

The residence fees of students recognised by the Ministry of Education and in receipt of grants under the regulations for the training of teachers are reduced by the amount of the grants paid to the University by the Ministry. The conditions of award and the rate of grants are published in the prospectus of the Department of Education.

UNIVERSITY LIBRARY

The University Library contains the following constituent parts :—

1. The Brotherton Library.
2. The Medical Library.
3. The Dental Library.
4. The Agricultural Library.
5. The Textile Library.
6. The Institute of Education Library.
7. Departmental Libraries.

The Brotherton Library, erected by the generous gift of the late Lord Brotherton, contains the great majority of the books in arts and science. It also houses the Brotherton Collection, the private library of Lord Brotherton, presented to the University in 1935 by Mr. Charles Brotherton and Mrs. Dorothy Una McGrigor Phillips in accordance with Lord Brotherton's desire.

The University Library, apart from the Brotherton Collection, contains 457,728 volumes and pamphlets. The Brotherton Collection contains 39,997 volumes and pamphlets, 604 manuscripts, 4,106 deeds and 31,995 letters.

The Medical Library, consisting of 28,829 volumes and pamphlets, is housed in the School of Medicine, the Agricultural Library of 31,949 volumes and pamphlets is housed in the Department of Agriculture. The special regulations governing the use of the Medical Library, the Dental Library and the Institute of Education Library will be found respectively in the prospectuses of the Medical School, the Dental School and the Institute of Education.

The University Library has been fortunate in receiving valuable gifts, and is indebted to many donors, individual and corporate, for regular contributions in money and books.

Special Collections

The Brotherton Collection includes mediaeval manuscripts, 251 incunabula, a large number of other early printed books, the four Folios of Shakespeare, some hundreds of Civil War and other seventeenth century political pamphlets, and numerous seventeenth and eighteenth century plays and poems. Lord Brotherton acquired the early printed books collected by Lord Howard de Walden with their elaborate modern bindings. The strongest section of the Collection is in nineteenth century English literature, especially in such authors as the Brontës, Browning, Byron, Cobbett, William Morris, Sir Walter Scott, Shelley, Swinburne and Tennyson. The letters include the whole of the correspondence of Sir Edmund Gosse from such persons as Lord Haldane, Thomas Hardy, Henry James, Lord Balfour, Austin Dobson, Oliver Wendell Holmes, and very many others. The Bram Stoker letters also number many thousands. The French section includes the manuscripts of D'Eon de Beaumont, and the 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 proposes to continue to develop this collection, and has been appointed by the University its Honorary Curator.

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 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 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 ; 5,000 gramophone records presented by Mr. Pritchard ; and many other gifts. One of the most important gifts ever made to the University, the Harold Whitaker atlases of the British Isles, about 450 in number, is for the time being housed in Dr. Whitaker's home near Halifax.

Regulations for the Brotherton Library

1. HOURS OF OPENING.

The Library is open on—

Monday to Friday, from 9 a.m. to 9 p.m. ;

Saturday, from 9 a.m. to 1 p.m. ;

except during the Long Vacation and the last fortnight of the Third Term when it is open on—

Monday to Friday, from 9 a.m. to 5 p.m. ;

Saturday, from 9 a.m. to 12.30 p.m.

It is closed from December 23rd at 5 p.m. up to and including December 30th ; 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 and registered students 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. (Provision has been made for depositing such articles in the vestibule.)

(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 any other period during which the Library is closed. They will be issued not more than an hour before closing time 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 shall not be consulted or borrowed without the consent of the Head of the appropriate Department.

(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.

(c) Books taken out at the beginning of, or during, vacations may be retained not later than the third 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. A notification shall be sent to the borrower on the first day on which the fine is incurred, but non-receipt of this notification will not excuse payment of the fine.

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.

**Additional Regulations respecting the Law Library
and Special Collections**

9. LAW LIBRARY.

All persons entitled to the use of the Brotherton Library shall have the right to consult the books in the Law Library, but the use of the room shall be confined to those who are consulting the books.

10. 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.

Regulations for the Agricultural Library

(In the Department of Agriculture).

The Library which is situated in the Department of Agriculture is open :—

(a) Monday to Friday, 9 a.m. to 5 p.m.

(b) Saturday, 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 3c-d, 4b-c, 7, and with the following additions :—

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. 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.

Current Numbers of Periodicals may be borrowed under the same conditions as reference books.

Annual Inspection. All books must be returned to the Library for the annual inspection, ordinarily held in June. A fine of twopence per book shall be imposed, up to the limit of the price of the book, for every day that it is detained beyond the time for its return for the inspection.

Regulations for the Textile Library

(In the Department of Textile Industries).

The Library is open :—

(a) Monday to Friday, 9 a.m. to 5 p.m.

(b) Saturday, 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 3b-d, 4c-d, 6d, 7, and with the following additions:—

Periodicals and Reference Books. 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 10.0 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.)

Theses. There are two copies of every Textile thesis—a borrowable copy and a reference copy. The latter is available only for consultation in the library.

Fines. 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.

Annual Inspection. All books must be returned to the library for the annual inspection, ordinarily held in June.

Regulations for the Brotherton Collection

A. General Conditions affecting access to the Brotherton Collection Rooms

1. The rooms containing the Brotherton Collection are reserved exclusively for the purposes of the Collection and for persons having the right of access to the rooms.
2. Entrance to the Collection shall be only by way of the main entrance to the Brotherton Library building.
3. No attaché case may be brought into the Brotherton Library building.
4. Exit from the Brotherton Library building by the main entrance will be subject in every way to the regulations imposed by the University on all readers, the attendant being instructed to examine all books and parcels that are taken past the barrier.
5. Smoking is strictly forbidden.
6. The rooms are open to authorised readers from 9 a.m. to 1 p.m., and from 2.30 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.

B. Access to the Brotherton Collection

1. Members of the Court, 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.

2. Members of the Court, Council, Senate and 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.

3. 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.

4. 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.

5. Individual persons not being members of the University may be given special permission to visit the Collection accompanied by the Keeper.

6. Groups of persons not being members of the University may be admitted to visit the Collection at such times as may be prescribed.

7. In the absence of the Keeper, the Librarian or his accredited deputy shall act in his place.

C. Rules applicable to all Readers

1. Readers admitted to use the Collection shall be subject to the general regulations of the University Library so far as relevant.

2. No books, MSS. or other articles in the Collection may be removed from the Brotherton Collection Rooms.

3. Books of exceptional value or rarity may be consulted only in the presence of the Keeper.

4. 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.

5. No mark of any kind may be made by a reader on any book or MS.

6. 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.

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.

ORDINANCE II

DEGREES IN ARTS

1. The degrees in Arts shall be :

Ordinance

Bachelor of Arts (B.A.)
 Bachelor of Music (B.Mus.)
 Bachelor of Divinity (B.D.)
 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.)

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 *either* in General 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, Economics and Commerce and Law, a candidate may transfer* from the course leading to the degree of Bachelor of Arts in Special Studies to that leading to the degree of Bachelor of Arts in General Studies or *vice versa*.

6. Except with the special permission of 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

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

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.
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.
- (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 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 Arts 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 Arts in General Studies may, with the permission of the Senate given on the recommendation of the Board of the Faculties of Arts, Economics and Commerce and Law, present himself for the examination for the degree of Bachelor of Arts 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 Arts in any of the Schools of Special Studies may, with the permission of Senate given on the recommendation of the Board of the Faculties of Arts, Economics and Commerce and Law, present himself for the examination for the degree of Bachelor of Arts 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.

1. Candidates will not be admitted to courses of study Regulations 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 will be required to 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 shall include an oral examination.

DEGREE OF BACHELOR OF ARTS IN GENERAL STUDIES

Ordinance 11. All candidates shall be required to attend approved courses of study in three subjects for three years each *and* one subject for one year and to pass the prescribed examinations. Courses in these subjects will be taken as follows :—

in the first year—a one year course in each of four subjects,

and in the second and third years—a two years course in each of three subjects chosen from among those taken in the first year.

12. All candidates shall select their subjects from among those specified in the Regulations for the degree of Bachelor of Arts in General Studies, provided that :

- (i) of the one year courses, not more than two may be in subjects selected from among the Sciences; and
- (ii) of the two year courses taken in the second and third years, not more than one may be in a Science.

Regulations 6. The subjects in which courses are approved for the degree of Bachelor of Arts in General Studies are as follows :

(a) Greek	Portuguese
Latin	History
Hebrew	European Civilisation
Arabic	Philosophy
Aramaic and Syriac	Anthropology
English Literature	Geography
English Language	Phonetics
and Mediæval	Music
English Literature	Fine Art
Icelandic	History of Religion
French	Biblical Studies
German	*Economics
Italian	Mathematics
Russian	Social Science
Spanish	*Industrial Relations
	Psychology

*No candidate in the first year may offer both Economics and Industrial Relations.

(b) Sciences :

Physics	Botany
Chemistry	Geology
Zoology	Statistics

Courses in Aramaic and Syriac, Statistics and Phonetics extend over only one year.

7. Candidates for the degree of B.A. in General Studies will be allowed to offer only those combinations of subjects which are approved by the Deans, Sub-Dean and Tutor of Women Students. The subjects, taken from the groups A to F listed below, must be chosen in such a way that the following requirements are fulfilled :

(a) for the First Year, the four subjects studied must be selected from not less than three groups.

(b) for the Final examination, the three subjects must be chosen one from each of three groups.

A

Greek
Latin
Hebrew
Aramaic
Arabic

B

French
German
Spanish
Portuguese
Russian
Italian
Icelandic
English

C

History
Philosophy
History of Religion
Biblical Studies
Geography
Phonetics
Music

D

Economics
Social Science
Anthropology
Mathematics
Industrial Relations
Psychology

E

Statistics
Physics
Chemistry
Zoology
Botany
Geology

F

English
History
Philosophy
Mathematics
Geography
Fine Art
European Civilisation
French

In special circumstances, a combination of subjects not in accord with the above may be approved by the Senate on the recommendation of the Board.†

8. Any course extending over one year for the degree of Bachelor of Arts in Special Studies may, with the sanction of the Board of the Faculties of Arts, Economics and Commerce and Law, be accepted as a one year course for the degree of Bachelor of Arts in General Studies.

9. *In exceptional cases*, a candidate who has obtained the Higher School Certificate or passed an equivalent examination, may, with the approval of the Board of the Faculties of Arts, Economics and Commerce and Law, be exempted from a one year course and the corresponding examination in one of the subjects of the Higher School Certificate or other examination, *provided that* (i) the candidate takes a two years course in the subject ;

(ii) a candidate granted such an exemption in a subject may not present himself for the degree examination in that subject before the end of the third year of study.

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

11. 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 :

† Notwithstanding the provisions of Regulation 7 candidates are permitted to offer the following groups of subjects for the final examination for the degree of B.A. in General Studies : (i) English, French, German.

(ii) Geography, History, Philosophy,
provided that in each case a fourth subject is selected from a Group other than Groups B and F and Groups C and F respectively.

* N.B. The latest date of entry and payment of fees for B.A. degree examinations (General Studies and Special Studies) is 30th January.

- (i) he has presented himself for the corresponding examination in the preceding June ; and
- (ii) he has attained an appropriate standard in the June examinations as a whole.

12. Candidates for the degree of Bachelor of Arts in General Studies will be required to present themselves for and to complete satisfactorily :

- (i) an examination in four subjects taken in June at the end of the first year of study ;
- (ii) an examination in three subjects at the end of the third year of study.

13. To be admitted to the second year of the course, candidates will be required to have passed the examinations in not less than three of the subjects taken in the first year.

14. No candidate will be allowed to take a two years course in a subject in the second and third years of study unless he has already passed or under Regulation 9 above he has been exempted from the examination on the one year course in that subject.

15. A candidate taking a one 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.

16. A candidate will be required to have passed the examinations on four one year courses by the end of the second year ; and only with the special permission of the Senate given on the recommendation of the Board of the Faculties of Arts, Economics and Commerce and Law will he be allowed either to take a one year course or to present himself for the examination on a one year course in the third year of study.

DEGREE OF BACHELOR OF ARTS IN SPECIAL STUDIES

Ordinance 13. 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.

14. 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 :—

Classics

Greek Language and Literature

Latin Language and Literature

Latin with Greek

Hebrew Language and Literature

Theology

Biblical Studies

English

French Language and Literature

German Language and Literature

Italian Language and Literature

Russian Language and Literature

Spanish Language and Literature

Modern Languages and Literatures

French and Latin Languages and Literatures

History

Geography

Philosophy

Social Studies

Economics

Mathematics

Philosophy together with one other subject approved :

(i) by the Head of the Department concerned and of the Department of Philosophy ;

(ii) by the Board of the Faculties of Arts, Economics and Commerce and Law.

Psychology

Textile Design.

16. *In exceptional cases*, a candidate who has obtained the Higher School Certificate or passed an equivalent examination, may, with the approval of the Board of the Faculties of Arts, Economics and Commerce and Law, be exempted from a one-year course and corresponding examination in one of the subjects of the Higher School Certificate or other examination. Regulations

17. 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 of 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 Senate, no candidate will be accepted for a September examination unless (i) he has presented himself for the corresponding examination in the preceding June and (ii) he has attained an appropriate standard in the June examinations as a whole.

18. The final examinations will ordinarily be held in June of each year.*

CLASSICS

Candidates for the degree of Bachelor of Arts in Special Studies in Classics shall be required to pursue courses of study and to submit themselves for examination in the following subjects:

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.

History and Archæology of Roman Britain.

*N.B.—The latest date of entry and payment of fees for B.A. degree examinations is 30th January in each year.

Candidates may offer either (I) Greek and Latin at Special standard throughout the course, passing both at the same examination, normally at the end of the third year of study, or (II) 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 I and II below, provided that the subjects chosen by the candidate are substantially and to the satisfaction of the Board of the Faculty of Arts those required for the Course for the first year in the School of Special Studies in Classics.

Alternative I

Attendance in the subjects of the School shall be required as follows: 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.

Students should possess the Oxford Text of Virgil and of Horace, and a good outline History of Rome and of Latin Literature, such as Cary's *History of Rome down to the Death of Constantine*, and Mackail's *Latin Literature*.

Alternative II

Attendance in the subjects of the School shall be required as follows : 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 (i) candidates must offer a certain number of Greek books under 2 ;

(ii) 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 (i) candidates must offer a certain number of Latin books under 2 ;

(ii) candidates will be excused the subject numbered 7 ("Development of the Greek language") ;

(iii) a candidate who has offered Greek art and architecture in the Latin examination under 8 may not offer the same subject for examination in Greek.

Special Requirements.

(i) Candidates are required to attend the one year course in Greek as prescribed in the Regulations for the degree in General Studies and to pass the prescribed examination in that subject.

(ii) 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 Faculty of Arts, for candidates who have obtained a Higher School or equivalent Certificate.

Prescribed Books

GREEK.

Course ending in June, 1953 :

Iliad I, VI, XXIV ; *Odyssey* I-VI ; Greek Lyric and Elegiac Poetry (selections) ; Aeschylus, *Agamemnon* and *Prometheus Vinculus* ; Sophocles, *Oedipus Rex* ; Euripides, *Bacchæ* ; Aristophanes, *Frogs* ; Herodotus VIII ; Thucydides VI ; Plato, *Phædo* ; Demosthenes, *Olynthiacs I-III* and *de Corona* ; Aristotle, *Poetics* ; Theocritus I, II, VII, XV.

Courses ending in and after June, 1954 :

**Iliad* I, VI, XI, XXIV ; *Odyssey* ; Hesiod, *Works and Days* ; *Oxford Book of Greek Verse*, Nos. 97-237, 271-273, 303-311, 507-522, 532-543 ; *Pindar, *Pythians* I-IV, VIII-X ; Aeschylus, *Agamemnon* ; *Sophocles, *Oedipus Rex* ; Euripides, *Iphigeneia in Tauris* ; *Aristophanes, *Frogs* ; Herodotus VII-IX ; Thucydides I, II, *VI ; Antiphon, *de cæde Herodis* ; Lysias, *in Eratosthenem* ; Andocides, *de Mysteriis* ; Isocrates, *Areopagiticus* ; Aeschines, *in Ctesiphontem* ; *Demosthenes, *de Corona* ; Plato, *Republic* and **Phædo* ; Xenophon, *Memorabilia* I-III ; *Aristotle, *Poetics* ; *Theocritus I, II, VII, XIV, XV.

NOTES.

- (1) (Courses ending in and after June 1954) Passages for translation may be set from any work in the list ; questions on details of language, textual criticism, subject-matter and interpretation will be set only on those works marked with an asterisk*.
- (2) The following texts will be used in the examination :—
Hesiod—P. Mazon (Collection Budé—Paris 1947).
Antiphon, Andocides, Isocrates, Aeschines—E. E. Genner, *Selections from the Attic Orators* (Oxford).
Lyric and Elegiac Poets (except Pindar), Callimachus, Apollonius Rhodius—*Oxford Book of Greek Verse*.
All other authors—the latest edition or impression in the *Oxford Classical Texts* series.

LATIN.

Books prescribed for June, 1953.

Plautus : *Miles Gloriosus*.

Terence : *Phormio*.

Lucretius ; I, ed. J. D. Duff (Pitt. Press).

Catullus : ed. Simpson (Macmillan).

Cicero : *Pro Lege Manilia* ; *Letters to Atticus* II, ed. Alford (Macmillan) ; *de Officiis* III, ed. Holden (Pitt. Press).

Livy XXI.

Virgil ; *Eclogues* ; *Aeneid*, II, IV, VI, XII.

Horace : *Odes* I, III. *Epistles* I.

Lucan VIII, ed. Postgate (Pitt Press).

Seneca : *Selected Letters*, ed. Summers (Macmillan). Letters numbered 53, 54, 63, 79, 80, 82, 84, 88—122 inclusive are to be omitted.

Juvenal : *Satires* 1, 3, 10, 13, ed. J. D. Duff (Pitt Press).

Tacitus : *Annals* XIV, ed. Woodcock (Methuen) ; *Agricola*, ed. Furneaux-Anderson (Clarendon Press).

Books prescribed for June, 1954.

Plautus : *Miles Gloriosus*.

Terence : *Adelphi*.

Lucretius III.

Catullus : ed. Simpson (Macmillan).

Cicero : *Pro Caelio* ; *Letters to Atticus* II (ed. Alford, Macmillan) ; *De Re Publica* (ed. Poyser, Pitt Press).

Livy VI.

Virgil : *Georgics* I and IV ; *Aeneid* II, IV, VI, XII.

Horace : *Odes* I and III ; *Epistles* I.

Lucan VII : (ed. Postgate, Pitt Press).

Seneca : *Selected Letters*. (ed. Summers, Macmillan. Letters numbered 53, 54, 63, 79, 80, 82, 84, 88-122 inclusive are to be omitted.)

Juvenal : *Satires* 1, 3, 10, 13 (ed. J. D. Duff, Pitt Press).

Tacitus : *Histories* III, ed. Summers (Pitt Press) ; *Agricola* (ed. Furneaux-Anderson).

GREEK

Candidates for the degree of Bachelor of Arts in Special Studies in Greek shall be required to pursue courses of study and to submit themselves for examination in the following subjects :—

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 connexion 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) Greek life and manners (with some reference to inscriptions).

- (d) The special study of an author or *one* of the following types of literature :—(1) Homeric poems; (2) Greek lyric poetry ; (3) Greek drama in the 5th century ; (4) Greek oratory, with special reference to Demosthenes.
- (e) Greek sculpture *or* vase painting.
- (f) Greek art and architecture.
- (g) Greek verse composition.

Attendance in the subjects of the school shall be required as follows :—During the first year not less than 7 hours a week, during the second year not less than 9 hours a week and during the third year not less than 7 hours a week.

Candidates (other than those who have already completed the course for a degree with 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 course 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 Years course in Latin as prescribed in the Regulations for the degree 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 Faculty of Arts, for candidates who have obtained a Higher School or equivalent Certificate.

LATIN WITH GREEK

Candidates for the degree of Bachelor of Arts in Special Studies in Latin with Greek shall be required to pursue courses of study and to submit themselves for examination in the following subjects :

- 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 required as follows : 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 B.A. 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 the subject.

Some modification of the special requirements may be made subject to the approval of the Board of the Faculty of Arts, for candidates who have obtained a Higher School or equivalent Certificate.

Prescribed books in Greek (under 3) : **Iliad* I, VI, XXIV ; *Odyssey* I-XII ; Hesiod, *Works and Days* ; *Oxford Book of Greek Verse*, Nos. 97-237, 271-273, 303-311 ; Aeschylus, *Agamemnon* ; *Sophocles, *Oedipus Rex* ; Euripides, *Iphigenia in Tauris* ; *Aristophanes, *Frogs* ; Herodotus VIII, IX ; Thucydides I, *VI ; Antiphon, *de cæde Herodis* ; Lysias, *in Eratosthenem* ; Andocides, *de Mysteriis* ; Isocrates, *Areopagiticus* ; Aeschines, *in Ctesiphontem* ; *Demosthenes, *de Corona* ; Plato, *Phædo* ; Xenophon, *Memorabilia* I-III.

NOTE.

Passages for translation may be set from any work in the above list ; questions on details of language, textual criticism, subject-matter and interpretation will be set only on those works marked with an asterisk*.

LATIN

Candidates for the degree of Bachelor of Arts in Special Studies in Latin shall be required to pursue courses of study and to submit themselves for examination in the following subjects :—

1. The Latin books prescribed for Special Studies in Classics (2 papers).
2. Further Latin books (1 paper).

3. General paper as for Special Studies in Classics (1 paper)
4. Latin unprepared translation (1 paper).
5. Latin prose composition (1 paper).
6. A period of Roman history studied in connexion with the original authorities (1 paper).
7. Development of the Latin language with an elementary knowledge of the Italic dialects (1 paper).
8. *One* of the following special subjects :
 - (a) History of Latin language from Plautus to Tacitus.
 - (b) Stoicism and Epicureanism in Roman life and thought.
 - (c) Roman life and manners (with some reference to inscriptions).
 - (d) A special study of an author or part of an author or *one* of the following types of literature :—(i) epic poetry, with special knowledge of the fragments of Livius Andronicus, Naevius and Ennius ; (ii) satire, with special knowledge of the fragments of Lucilius ; (iii) dramatic poetry, with special knowledge of the fragments of Latin dramatic poetry ; (iv) oratory, with special knowledge of the fragments of Latin oratory.
 - (e) Latin verse composition.
 - (f) Greek Art and Architecture.
 - (g) History and Archæology of Roman Britain.

Attendance in the subjects of the school shall be required as follows : During the first year not less than 7 hours a week, during the second year not less than 9 hours a week, and during the third year not less than 7 hours a week.

Candidates (other than those who have already completed the course for a Special Studies degree in Greek) may, in place of a certain number of the books prescribed in Latin, be permitted to substitute a certain number of the books prescribed for the course of Special Studies in Greek to be specified from year to year.

Special Requirements :—

- (1) Candidates are required to attend the one year and two years courses in Greek, as prescribed in the Regulations for the degree of B.A. 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 Faculty of Arts, for candidates who have obtained a Higher School or equivalent Certificate.

Students should possess the Oxford Text of Virgil and of Horace, and a good outline History of Rome and of Latin Literature, such as Cary's *History of Rome, down to the Death of Constantine*, and Mackail's *Latin Literature*.

Set Books

As for Special Studies in Classics.

HEBREW LANGUAGE AND LITERATURE

Candidates wishing to take the Special Studies Course in Hebrew Language and Literature, who have not passed an approved examination in Hebrew, may be required to attend both first and second year courses for the Diploma in Hebrew concurrently, and to pass a special examination at the end of the session, before embarking on the Special Studies course.

Hebrew and Aramaic are studied concurrently throughout the Special Studies course, Aramaic being the second main language.

Candidates for the degree of Bachelor of Arts in Special Studies in Hebrew Language and Literature shall be required to pursue courses of study and to submit themselves for examination as follows :—

The course of study for the first academic year shall include the following four subjects : Hebrew language and literature ; eastern and western Aramaic ; two other approved subjects.

A qualifying examination in all these subjects must be passed by candidates before they proceed to further study.

In addition to the subjects of the school each candidate will be required to pursue for two further years a prescribed course in one of the approved subjects chosen for the first year. At the end of this third year, he must present himself for examination in this subsidiary subject as for a two years course in a subject for the degree of Bachelor of Arts in General Studies.

Biblical history and archæology, critical introduction to the literature of the Old Testament and the growth

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

Final Examination

The examination shall consist of the following papers :

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

Specified and unspecified texts of Aramaic, including Syriac (2 papers).

Specified and unspecified texts of Mishnaic and Medieval Hebrew (1 paper).

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

Specified and unspecified modern Hebrew texts:

(i) poetical texts and general literature questions (1 paper).

(ii) prose texts and composition (1 paper).

In his final year, a student must offer a subsidiary subject within the Hebrew School of Special Studies in addition to the main Hebrew and Aramaic courses and his third outside subject ; the following options being available :

(a) Advanced Syriac.

(b) Advanced medieval Hebrew.

(c) Arabic.

(d) Biblical Greek and Papyri.

Students who have read Arabic in their first year as one of their approved outside subjects chosen for the first year only will not be eligible to take (c)—Arabic—as their final year departmental subsidiary subject. Students intending to take (d)—Old Testament Greek and selected Greek papyri—as their departmental subsidiary subject in their final year, will normally take Greek I in their first year as one of their outside subjects.

Prescribed Texts. (See under Courses in Arts.)

THEOLOGY

Candidates proceeding to the degree of B.A. in Special Studies in Theology, in addition to conforming with the terms of the Ordinance for the Degree of Bachelor of Arts in Special Studies and the relative Regulations, must satisfy the following conditions:

- (a) The first year course shall consist of Classical Greek *or* New Testament Greek, Old Testament I (Hebrew), Church History, and either Philosophy or other one-year subject approved by the Department.
- (b) The second year course shall consist of New Testament Language and Literature, Old Testament II options (i), (ii) or (iii), Church History, Biblical and Historical Theology and either Philosophy of Religion I or History of Religion I.
- (c) The third year course shall consist of New Testament Language and Literature, Old Testament III options (i), (ii) or (iii), Biblical and Historical Theology, Philosophy of Religion I or II or History of Religion I or II.

In special cases, on the recommendation of the Head of the Department of Theology, the requirement to take Hebrew in the first-year course may be waived by the Board of Arts and an alternative course substituted. For the second and third years, the options (i), (ii), or (iii) mentioned in (b) and (c) above 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.

Students of the Theological Colleges proceeding to the degree of B.A. in Special Studies in Theology will be required to take their first year courses at the University, except that they may take courses in New Testament Greek and Church History in their Colleges. In their second and third years they must attend at least four hours' lectures a week at the University. At the end of each year they must pass the examinations in the subjects appointed for that year.

Examinations*1st year :*

Old Testament I (Hebrew)
Classical Greek I *or* New Testament Greek
Church History (a), (b) or (c)
A one year subject.

*2nd year :**Final Examination, Part I :*

Old Testament II, option (i), (ii), or (iii)
New Testament Language and Literature I
Church History (a), (b) or (c)
History of Religion I
or Philosophy of Religion I
Biblical and Historical Theology (A) or (B).

*3rd year :**Final Examination, Part II :*

Old Testament III, option (i), (ii), or (iii)
New Testament Language and Literature II
History of Religion II
or Philosophy of Religion II
Biblical and Historical Theology (A) or (B).

There is one paper in each of the above subjects.

BIBLICAL STUDIES

Candidates for the degree of Bachelor of Arts in Special Studies in Biblical Studies shall be required to pursue courses of study and to submit themselves for examination as follows :

The course for the first academic year shall normally include Greek I (Classical Greek) and Hebrew I, Old Testament Introduction and History, and a secular subject which may be the first year course of any two-years course in Arts or Science approved by the Head of the Department of Theology.

A qualifying examination in Greek I, Hebrew I, and the secular subject will be held at the end of the first year, which must normally be passed by candidates before they proceed to further study.

Some modification of the course may be made, subject to the approval of the Board of the Faculty of Arts, for candidates who have passed the corresponding subject in the Higher School Certificate or at the Advanced or Scholarship level of the General Certificate of Education.

The course for the second year shall include New Testament in Greek or Old Testament in Hebrew, the contents of the Old Testament, New Testament Introduction and History, the second year course of the secular subject which had been studied in the first year, and an outline study of English Church History from the beginning to A.D. 1800.

Students who choose New Testament in Greek for their second and third years will be required to attend a short second year course in Hebrew, and those who choose Old Testament in Hebrew will attend a short second year course in New Testament Greek. A paper in these additional subjects will be taken at the end of the second year.

The course for the third year shall include New Testament in Greek or Old Testament in Hebrew, the contents of the New Testament, a special subject, and a study of Biblical and Historical Theology, which will be Section A or Section B (in alternate years) of the course provided for the B.A. in Special Studies in Theology.

The special subject (taken in the third year) will be a specially provided course such as Philosophy, Philosophy of Religion, Christian Ethics, History of Religion, Religion and Science.

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

Special Studies Examination Part I.

Old Testament (2 papers)

Old Testament in Hebrew, including specified and unspecified texts, or New Testament in Greek, including specified and unspecified texts (1 paper).

Secular subject (1 paper).

English Church History to 1800 A.D. (1 paper).

New Testament Greek or Hebrew (1 paper)

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

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

Special Studies Examination Part II.

New Testament (2 papers).

Old Testament in Hebrew, including specified and unspecified texts, *or* New Testament in Greek, including specified and unspecified texts (1 paper).

Biblical and Historical Theology (either The Incarnation and The Trinity *or* The Atonement) (1 paper).

Special subject (1 paper).

ENGLISH

Candidates for the degree of B.A. in Special Studies in English shall be required to pursue courses of study and submit themselves for the examination as follows :

There shall be alternative schemes of study :

- A. English Language and Literature
- B. English Language and Literature
- C. English Literature

Under these schemes the course of study for the first academic year shall include Greek *or* Latin *or* a Modern Language ; English Literature ; English Language and Mediæval Literature ; any one of the subjects approved as a first-year or a one-year subject by the Board of the Faculties of Arts, Economics and Commerce and Law ; four subjects in all.

Qualifying examinations will be held in these subjects at the end of the first year. These must be passed by candidates before they proceed to further study in any one of the above specified schemes.

For details of the first-year courses in English and the examinations see under Courses in Arts in subsequent pages.

Scheme A

(English Language and Literature)

In this scheme the emphasis will be on Literature. Candidates will be required to attend the following courses :

Second Year :

- (i) in the Department of English Literature :
- | | |
|---|--------|
| <i>Shakespeare</i> (or, in alternate years, <i>Poetry</i>) | 1 hour |
| <i>The Novel</i> (in alternate years) (Instead of <i>The Novel</i> ,
a course may be taken in <i>The Drama</i>) | 1 hour |
| <i>Period</i> | 1 hour |
| <i>Tutorial Class</i> | 1 hour |
- (ii) in the Department of English Language and Mediæval Literature :
- | | |
|---|---------|
| <i>either</i> (A1) Old English Literature | 2 hours |
| Middle English Literature | 1 hour |
| <i>or</i> (A2) Middle English Literature | 2 hours |
| History of English | 1 hour |
- (iii) in another Department :
Supporting Subject normally 2 hours.

The supporting subject is one taken for two years in another Department by arrangement with the Head of the Department concerned.

Third Year :

- (i) in the Department of English Literature :
- | | |
|---|--------|
| <i>Poetry</i> (or, in alternate years, <i>Shakespeare</i>) | 1 hour |
| <i>The Novel</i> (in alternate years)
(Not for those taking <i>The Drama</i>) | 1 hour |
| <i>Criticism</i>
(Not for those taking <i>The Drama</i>) | 1 hour |
| <i>Selected Author</i> (Seminar Class) | 1 hour |
| <i>Tutorial Class</i> | 1 hour |
- (ii) in the Department of English Language and Mediæval Literature :
- | | |
|--|---------|
| <i>either</i> (A1) Middle English Literature | 2 hours |
| <i>or</i> (A2) Middle English Literature | 1 hour |
| History of English | 1 hour |
- (iii) in another Department :
Supporting Subject (see above) normally 2 hours

Scheme B

(English Language and Literature)

In this Scheme, the emphasis will be on Philology and Mediæval Literature.

During the second and third years, candidates will be required to take the undermentioned courses :

(i) in the Department of English Language and Mediæval Literature :

- (1) Old English
- (2) Middle English
- (3) Chaucer and the Fifteenth Century
- (4) English Philology
- (5) Any two of the following :
 Gothic and Germanic Philology, Old Icelandic, Modern Icelandic, English Palaeography and Bibliography, Anglo-Saxon Art and Archaeology, English Dialectology (normally examined by thesis), Phonetics (taken in the Department of Phonetics).

In place of one of the options mentioned in (5) above, candidates may elect to take, by arrangement with the Head of the Department concerned, Old Saxon and Old High German, Old French, Latin Philology, Greek Philology, or to take an additional language or philological course approved by the Board of the Faculty of Arts, or to take an additional subject in the Department of English Literature, or to present a dissertation on an approved subject.

Candidates who wish to take any one of the above-mentioned courses that are given outside the Department of English Language and Mediæval Literature, or to present a dissertation, should inform the Professor of English Language and Mediæval Literature not later than the beginning of their second academic year.

(ii) in the Department of English Literature :

- (1) Two selected periods
- (2) Shakespeare.

For the Session 1952-53, the selected period will be the period 1830-1880.

Scheme C (English Literature)

Candidates will be required to attend the following courses :

Second Year :

(i) in the Department of English Literature :

<i>Shakespeare</i> (or, in alternate years, <i>Poetry</i>)	1 hour
<i>The Novel</i> (or, in alternate years, <i>Milton and his Time</i>)	1 hour
(Instead of <i>The Novel</i> or of its alternative a course may be taken in <i>The Drama</i>)	
<i>Period</i>	1 hour
<i>General Lecture</i>	1 hour
<i>Tutorial Class</i>	1 hour

- (ii) in the Department of English Language and Mediæval English Literature :

Chaucer and Middle English 1 hour

- (iii) in another Department :

Supporting Subject (see above) normally 2 hours

Third Year :

- (i) in the Department of English Literature :

Poetry (or, in alternate years, *Shakespeare*) 1 hour

Milton and his Time (or, in alternate years, *The Novel*) 1 hour

(Instead of *Milton and his Time* or of its alternative, a course may be taken in *The Drama*)

Criticism 1 hour

Selected Author (Seminar Class) 1 hour

Tutorial Class 1 hour

- (ii) in the Department of English Language and Mediæval Literature :

Chaucer and Middle English 1 hour

- (iii) in another Department :

Supporting Subject (see above under Scheme A) normally 2 hours

Examinations

Schemes A and C

At the end of the Second academic year candidates will sit for :

The Examination for the Degree in Special Studies in English, Part I.

Schemes A and C : 1. The period studied

2. Poetry or the Novel (in alternate years).

Candidates taking the Drama course will be examined in :

1. The period.

and 2. Poetry, if studied in this year.

At the end of their third academic year candidates will sit for :

The Examination for the Degree in Special Studies in English, Part II.

Scheme A

1. Shakespeare
2. The Novel or Poetry
3. Criticism or Drama
4. Essay on the selected author
5. Old English or History of English
6. Middle English Texts
7. Chaucer
8. Supporting subject

Scheme C

1. Shakespeare
2. The Novel or Poetry
3. Criticism
4. Essay on the selected author
5. Milton and his Time or Drama
6. Chaucer and Middle English
7. Supporting subject.

Candidates will also be examined orally.

Those taking the Drama course will not be examined in the Novel.

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

Instead of studying the Selected Author, a candidate may, after consultation with the Head of the Department, submit an independent thesis on an approved subject.

For the Session 1952-53 the alternative courses will be Poetry and Milton; the Special Period 1830-1880; the Special Author Swift; or, for those taking the Drama Course, Ibsen.

The selected texts for the Old English paper in Part II in June 1953 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 in Part II in June 1953 will be *The Owl and the Nightingale* (ed. Wells or Atkins); *The Lay of Havelok the Dane* (ed. Skeat and Sisam); *Sir Gawain and the Green Knight* (ed. Tolkien and Gordon or Gollancz); *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 II in June 1953): general knowledge of the complete works and of their language and metre with special study of *Troilus and Criseyde*, and for detailed study *The Wife of Bath's Prologue and Tale*, *The Reeve's Tale* and *The Parliament of Fowls*.

Scheme B

At the end of the third academic year candidates will sit for the Final Examination for the Degree in Special Studies in English and will take the under-mentioned Papers:—

1. General Paper, comprising passages for translation from unprescribed Old and Middle English Texts and literary, historical and linguistic questions (1 paper).
2. Old English (1 paper).
3. Middle English (1 paper).
4. Chaucer and the Fifteenth Century (1 paper).
5. English Philology (1 paper).

6. One paper on *one* of the following :
 Gothic and Germanic Philology
 Old Icelandic
 Modern Icelandic
 Old Saxon and Old High German
 Old French
 Greek Philology
 Latin Philology
 English Palaeography and Bibliography
 Phonetics
 Anglo-Saxon Art and Archaeology
 7. One paper on another of the subjects mentioned in 6 above, *or* on the subject specially approved by the Board of the Faculty of Arts, *or* on the additional subject taken in the Department of English Literature, unless the candidate has previously received permission to present a dissertation instead.
 8. Shakespeare
 9. Selected Periods (1 paper)
- Candidates will also be examined orally.

Texts for 1952-53

- The selected texts for the Old English paper in June 1953 will be as for Scheme A.
- The selected texts for the Middle English paper in June 1953 will be as for Scheme A.
- For additional reading in preparation for the General Paper the following are recommended :—
- The signed poems of Cynewulf (viz. *Juliana*, ed. W. Strunk ; *Elene*, ed. A. S. Cook ; *Christ*, ed. A. S. Cook ; *Fates of the Apostles*, ed. G. P. Krapp) ; *Selections from the Old English Bede* (ed. W. J. Sedgefield) ; *Sawles Warde* (ed. R. M. Wilson) ; *Middle English Metrical Romances* (ed. W. H. French and C. B. Hale) ; *Morte Arthure* (ed. E. Björkman) ; *Pearl* (ed. I. Gollancz).
- Chaucer and the Fifteenth Century (for June 1953) : a general knowledge of Chaucer's poetry, including its language and metre, with a special study of *Troilus and Criseyde*, *The Wife of Bath's Prologue and Tale* and *The Parliament of Fowls* ; also a general outline of English literature in the fifteenth century, with a special study of Henryson's *The Testament of Cresseid*.

FRENCH LANGUAGE AND LITERATURE

Candidates for the degree of Bachelor of Arts in Special Studies in French Language and Literature shall be required :

- (i) Before entering upon the Course to have attained School Certificate credit (or equivalent) standard in Latin.
- (ii) To pursue courses of study and submit themselves for examination as follows :

The course of study for the first academic year shall normally include the following subjects : (1) French Language and Literature ; (2) French History and Civilisation, (3) a language (other than English), (4) another approved subject.

A qualifying examination in all these subjects must normally be passed by candidates before they proceed to further study.

Some modification of the course and examination required for the first year may be made, subject to the approval of the Board of the Faculty of Arts, for candidates who have obtained a Higher School Certificate or its equivalent.

During the second and third years candidates shall be required to attend courses in the subjects of the school (see 1 and 2), and in addition a prescribed course in one of the subjects chosen under (3) and (4) shall be taken during both years. At the end of his third year the candidate must present himself for examination in this subsidiary subject as for a two-years' course in a subject for the degree of Bachelor of Arts in General Studies.

The third term of the second year will normally be spent at an approved French University.*

Candidates may be required in any year to attend courses of study given in other departments which may be helpful to their studies in the subjects of the School.

Final examination.

In June 1953 and thereafter the examination will consist of an oral examination and the following papers :

1. Composition (1 paper).
2. Unprepared Translation (1 paper).

*The cost of residence abroad is not included in the normal fee for an Arts Course

3. Essay (1 paper).
4. History of Language, Mediæval Literature and prescribed texts (2 papers).
5. Literature (after 1500) and prescribed texts (4 papers).
6. French History and Civilisation (1 paper).

Under 5 above candidates may, with the approval of the Head of Department, substitute (a) a further paper in Old French or History of the Language and/or (b) a dissertation on a subject approved by the Head of the Department.

Each of these alternatives will replace one of the papers on Literature and prescribed texts.

GERMAN LANGUAGE AND LITERATURE

Candidates for the degree of Bachelor of Arts in Special Studies in German Language and Literature shall be required to pursue courses of study and to submit themselves for examination as follows :

The course of study for the first academic year shall normally include the following four subjects : (1) German Language and Literature ; (2) Another approved modern 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 will be held at the end of the first year which must normally be passed by candidates before they proceed to further study. No candidate shall be regarded as having satisfied the Examiners unless he reaches an adequate standard in German prose composition and essay.

Some modification of the course and examination required for the first year may be made, subject to the approval of the Board of the Faculty Arts, for candidates who have obtained a Higher School Certificate or its equivalent, but all candidates will be required to 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.

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.*

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 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. At the end of his third year he must present himself for examination in this subsidiary subject as for a two years course in a subject for the degree of Bachelor of Arts in General Studies.

Final Examination

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

SCHEME A.

Literature and modern texts (4 papers).

Middle High German (1 paper).

Essay (1 paper).

Composition (1 paper).

Unprepared translation (1 paper).

General paper (1 paper).

In addition, candidates shall be required to present an extended essay on a subject approved by the Head of the Department.

SCHEME B.

Old and Middle High German and the History of the German Language (3 papers).

* The cost of residence abroad is not included in the normal fee for an Arts Course.

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).

Literature and modern texts (2 papers).

Essay (1 paper).

Composition (1 paper).

Unprepared translation (1 paper).

General paper (1 paper).

N.B.—No candidate shall be regarded as having satisfied the Examiners unless he reaches an adequate standard in German Prose composition and essay.

ITALIAN LANGUAGE AND LITERATURE

Candidates for the degree of Bachelor of Arts in Special Studies in Italian Language and Literature shall be required :

- (i) Before entering upon the course to have attained School Certificate credit (or equivalent) standard in Latin.
- (ii) To pursue courses of study and submit themselves for examination as follows :

The course of study for the first academic year shall normally include the following four subjects : (i) Italian Language and Literature ; (ii) Latin, French, Spanish *or* English ; (iii) a second subject from (ii) *or* another approved subject ; (iv) Period or periods of Italian civilization.

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

Some modification of the course and examination required for the first year may be made, subject to the approval of the Board of the Faculty of Arts, for candidates who have obtained a Higher School Certificate or its equivalent 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 Civilization.

The third term of the second year will normally be spent at some University where the medium of intercourse is Italian.*

During the third year candidates shall be required to attend courses in the subjects of the School for not less than eight hours a week.

Candidates may be required in any year to attend courses of lectures given in other departments which may be helpful to their studies in the subjects of the School.

In addition to the subjects of the School each candidate will be required to pursue a prescribed course 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. At the end of his third year he must present himself for examination in this subsidiary subject as for a two years course for the degree of Bachelor of Arts in General Studies.

Examinations

The examinations shall consist of oral examinations and the following papers :

Qualifying Examination (at the end of the first year) will include the following papers :

- Composition and Unseen Translation (1 paper).
- Literature (2 papers).
- Italian Civilization (1 paper).
- Essay (1 paper)

Final Examination (at the end of the third year) :

- Composition and Unseen Translation (1 paper).
- Literature and Prescribed Texts (3 papers).
- Italian Civilization (1 paper).
- Special Subject (1 paper).
- Essay 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.

* The cost of residence abroad is not included in the normal fee for an Arts Course.

RUSSIAN LANGUAGE AND LITERATURE

Candidates for the degree of B.A. in Special Studies in Russian Language and Literature shall be required to pursue courses of study and to submit themselves for examination as follows :

The course of study for the first academic year shall normally include the following subjects :

- (1) Russian language and literature.
- (2) History and institutions of Russia and the U.S.S.R.
- (3) 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.

Some modification of the course and the examination required for the first year may be made, subject to the approval of the Board of the Faculty of Arts, for candidates who have obtained a Higher School Certificate or its equivalent.

During the second and third years candidates shall be required to attend a course in the subjects of the School, such course to include lectures on :

- (a) Old Bulgarian and Old Russian, Slavonic Philology.
- (b) The History of Russian Literature.
- (c) History and institutions of Russia and the U.S.S.R.

Students will be required when possible to spend some portion of the course (usually one term) at a Russian University.*

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.

In addition to the subjects of the School each candidate will normally be required to pursue a prescribed course in one other subject included in the Faculty of Arts, and approved by the Head of the Department of

* The cost of residence abroad is not included in the normal fee for an Arts course.

Russian, for a period extending over three years. The candidate must present himself for an examination in this subsidiary subject as for a two years course in a subject for the degree of B.A. in General Studies.

Final Examination

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

Old Bulgarian and Old Russian ; prescribed text to be translated (1 paper).

The History and Philology of the Russian language and Outline of Slavonic Philology (1 paper).

Essay (1 paper) in Russian.

Unprepared translation and composition (1 paper)).

Literature (2 papers).

History of Russia before 1917 (1 paper).

History and Institutions of the U.S.S.R. (1 paper).

SPANISH LANGUAGE AND LITERATURE

Candidates for the Degree of Bachelor of Arts in Special Studies in Spanish Language and Literature shall be required :

- (i) Before entering upon the course to have attained School Certificate credit (or equivalent) standard in Latin.
- (ii) To pursue courses of study and submit themselves for examination as follows :—

The course of study for the first academic year shall normally include the following four subjects : (1) Spanish Language and Literature ; (2) Period or periods of Spanish civilisation ; (3) Portuguese, English, French ; (4) another approved subject in the Faculty not taken under (3).

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

Some modification of the course and examination required for the first year may be made, subject to the approval of the Board of the Faculty of Arts, for candidates who have obtained a Higher School Certificate or its equivalent but all candidates will be required to attend the lectures on Spanish Civilisation.

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, such courses to include lectures on (a) Spanish Civilisation; (b) the Geography of Spain.

The first term of the third year will normally be spent at some University where the medium of intercourse is Spanish.*

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 in one other subject included in the Faculty of Arts and approved by the Head of the Department of Spanish for a period extending over three years. At the end of his third year he must present himself for examination in this subsidiary subject as for a two years course in a subject for the degree of Bachelor of Arts in General Studies.

Examinations

The examinations shall consist of oral examinations and the following papers:

Qualifying Examination (at end of first year) will include the following papers in Spanish:

Composition and Unseen Translation (1 paper).

History of the Language (1 paper).

Literature (1 paper).

Spanish Civilization (1 paper).

Essay (1 paper).

Final Examination (at end of 3rd year):

Composition and Unseen Translation (1 paper).

Literature and Prescribed Texts (3 papers).

Spanish Civilization (1 paper).

Essay (1 paper).

Special Period (1 paper).

In addition, candidates shall be required either to present a dissertation on a subject approved by the Head of the Department, or to submit themselves for examination in two other special periods or subjects of Hispanic and Portuguese literatures, languages or civilisations.

* The cost of residence abroad is not included in the normal fee for an Arts course.

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 of study and to submit themselves for examination in any *two* of the following subjects: French, German, Italian, English, Spanish Russian.

Candidates shall also be required to study auxiliary subjects.

Conspicuous merit shown in any part or parts of the Examination by candidates who are placed in the First or Second Class will be signalled on the Class List by some special mark.

A qualifying examination in both Special Studies Schools must normally be passed by candidates at the end of the First Year before they proceed to further study.

I. FRENCH OR ITALIAN OR SPANISH OR RUSSIAN.

The attainment of School Certificate credit (or equivalent) standard in Latin is required of students proposing to read for a Bachelor of Arts Degree in Special Studies in which French, Italian or Spanish forms a principal part.

The course of study and subjects of examination in French or German or Italian or Spanish or Russian shall be: Prescribed texts of various periods, studied from a literary and linguistic standpoint; literature; history of the language; translation; institutions.

Candidates for this degree shall be required to satisfy the requirements of attendance of each School of Special Studies in which they are studying. These will normally include residence for a period not less than the duration of a University term in each of the countries whose language is being studied.

II. 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, A and B, related to the schemes of study in the German School of Special Studies. In *Scheme A* special attention will be paid to literature, in *Scheme B* to philology. Residence for a period not less than the duration of a University term will normally be required at an approved University where the medium of intercourse is German.

III. 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, A, B, and 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 Mediæval Literature. *Scheme C* is almost wholly devoted to Literature, from Chaucer to the present day.

Candidates will be required to attend :

- (i) During their first year courses of not less than three hours a week in English Language and Mediæval Literature, and three hours a week in English Literature and Composition ;
- (ii) 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.

Examination

The examination in each subject of the School shall consist of an oral examination and of the following papers:

FRENCH :

- Composition and essay (1 paper).
- Unprepared translation (1 paper).
- Language (1 paper).
- Literature and prescribed texts (3 papers).

GERMAN. SCHEME A.

- Literature and modern texts (3 papers).
- Middle High German (1 paper).
- Composition (1 paper).
- Unprepared translation and essay (1 paper).

GERMAN. SCHEME B.

- Old and Middle High German, and History of the Language (2 papers).
- Literature and modern texts (2 papers).
- Composition (1 paper).
- Unprepared translation and essay (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.

Qualifying Examination (at end of First Year) will include the following papers in Italian :

- Composition and Unseen Translation (1 paper).
- Literature and prescribed texts (1 paper).
- Italian Civilization (1 paper).
- Essay (1 paper).

Final Examination (at end of Third Year) :

- Composition and Unseen Translation (1 paper).
- Literature and prescribed texts (3 papers).
- Italian Civilization (1 paper).
- History of the Language (1 paper).

or Essay on a prescribed subject (1 paper).

RUSSIAN.

- Composition and essay (1 paper).
- Unprepared translation (1 paper).
- Prescribed texts before 1500, with literary and linguistic questions (1 paper).
- Prescribed texts after 1500, with literary and linguistic questions. The history of the language (1 paper).
- Prescribed texts of XIX century literature, with literary questions (1 paper).
- Russian history and the history of Russian literature (1 paper).

SPANISH.

Qualifying Examination (at end of First Year) will include the following papers in Spanish :

- Composition and Unseen Translation (1 paper).
- Literature and prescribed texts (1 paper).
- Spanish Civilization (1 paper).
- Essay (1 paper).

Final Examination (at end of Third Year) :

Composition and Unseen Translation (1 paper).

Literature and prescribed texts (3 papers).

Spanish Civilization (1 paper).

Essay (1 paper).

ENGLISH. SCHEMES A and C.

See under English, page 25.

Candidates will take *two* papers at the end of their second academic year (Part I Examination), and at the end of their third academic year (Part II Examination) will take Shakespeare, Chaucer (Scheme A) *or* Chaucer and Middle English Texts (Scheme C), and three 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.

Examination at end of third academic year.

1. Selected texts in Old English, with literary, historical and linguistic questions suggested by them (as for Special Studies in English, Scheme B) (1 paper).
2. Selected texts in Middle English with literary, historical and linguistic questions suggested by them (as for Special Studies in English, Scheme B) (1 paper).
3. English Philology (as for Special Studies in English, Scheme B) (1 paper).
4. Two selected periods (as for Special Studies in English, Scheme A) (1 paper).
5. *One* paper selected from the following :
Chaucer and the fifteenth century (1 paper).
Shakespeare and the Elizabethan drama (1 paper).
6. A paper on *one* subject selected from the following :
Germanic Philology, with special reference to Old English, or any of the special subjects laid down for Special Studies in English, Scheme B, except that 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.

LATIN AND FRENCH LANGUAGES AND LITERATURES

A. Latin.

1. Latin prose composition. 1 (1 paper).
2. Latin unprepared translation. (1 paper).
3. The Latin books prescribed for Special Studies in Classics. (2 papers).

4. General paper as for Special Studies in Classics. (1 paper).

5. *One of the following* (1 paper) :

- (a) Colloquial Latin and inscriptions.
- (b) Development of the Latin language with an elementary knowledge of the Italic dialects.
- (c) A period of imperial history.
- (d) Outlines of Ancient Philosophy.
- (e) Roman life and manners (with some reference to inscriptions).
- (f) Latin literary criticism.
- (g) Greek unprepared translation to the three years course standard.

B.—French, as for French, Special Studies in Modern Languages and Literatures.

HISTORY

Candidates for the Degree of Bachelor of Arts in Special Studies in History will present themselves for examination in the following manner :

I. *First Year Examination.*

The First Year examination in History will be the same as that prescribed for the Degree of B.A. in General Studies. Candidates desiring to proceed to the Special Studies Course in History must, however, offer four approved subjects, of which one must be History. They must, in addition, provide evidence of a reading knowledge of two languages other than English of which one should be French ⁽¹⁾. The subjects of examination in History will be any *two* of the following (two papers) :

- (a) The history of England in outline.
- (b) Europe in the nineteenth century.
- (c) Outlines of Greek and Roman History.
- (d) Medieval Society.

Students will take of either (a) or (c) with either (b) or (d).

II. *Final Examination Part I.*

- (a) The history of Europe in outline (1 paper).
- (b) The Sources and Literature of English History (1 paper).

(1) This may take the form of

- (a) A pass in the first-year examination in this University or
- (b) A pass in the General Certificate of Education.
- (c) In exceptional circumstances a pass in a special examination, consisting of unseen translation into English, conducted within the department.

- (c) *One* of the following (1 paper) :
- (1) Greek History from 478 to 362 B.C.
 - (2) Roman History from 133 to 44 B.C.
 - (3) Roman Britain.
 - (4) Medieval forms of government.
 - (5) The social and economic development of the North of England.
 - (6) The history of the British Empire.
 - (7) Anglo-American relations, 1812-1899.

III. *Final Examination Part II.*

- (a) The political and economic history of England in relation to comparable developments in other countries (3 papers), viz., 1, to 1400 ; 2, 1400-1700 ; 3, from 1700.
- (b) The history of Political Ideas (1 paper).
- (c) *One* of the following special subjects (2 papers) :
1. The Augustan Age.
 2. Edward III and the Kingdom of France.
 3. English manorial economy in the twelfth and thirteenth centuries.
 4. The Commonwealth and Restoration.
 5. The American Revolution and the Formation of the Federal Constitution.
 6. Great Britain : The Changing Nature of the State, 1867-1886 (for 1953).
- (d) A Dissertation.

These examinations will normally be taken at the end of the first, second and third sessions respectively. The First Year examination will be treated as a qualifying examination and students will be advised on their subsequent course of study on the basis of their performance therein. In the second and third years students will be given an opportunity to specialize, to some extent, in either economic or political history.

GEOGRAPHY

Candidates for the degree of Bachelor of Arts in Special Studies in Geography shall be required to pursue courses of study and to submit themselves for examination as follows:

The course of study for the first academic year shall include Geography and three other subjects, selected, after consultation with the Head of the Department,

from among those approved for the degree of B.A. in General Studies.

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

Some modification of the course and examination required for the first year may, however, be made, subject to the approval of the Board of the Faculty of Arts, for candidates who have distinguished themselves at the Advanced level in the examination for the General Certificate of Education.

The course of study for the second academic year shall include, in addition to Geography, one other approved course in the Faculty of Arts.

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

Special Studies Examination (Part I)

Physical Geography	..	..	(1 paper).
Regional Geography	..	..	(1 paper).
Human Geography	..	..	(2 papers).
An additional Arts subject	..	..	(1 paper).

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

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

Special Studies Examination (Part II)

Essay	..	..	..	..	(1 paper).
General Geography	..	..	..	..	(1 paper).
Regional Geography	..	..	..	..	(2 papers).
Human Geography	..	..	..	..	(2 papers).
Oral examination.					

In addition candidates shall be required to submit a thesis on an approved topic.

N.B.—Candidates shall be required to show in the examination a knowledge of at least one modern foreign language.

All candidates are required to attend field-classes and excursions, some of which are held in vacation periods.

PHILOSOPHY

Candidates for the degree of Bachelor of Arts in Special Studies in Philosophy shall be required to pursue courses of study, and to submit themselves for examination as follows :

The course of study for the first academic year shall normally be the same as for those taking Philosophy as a subject for the Degree of Bachelor of Arts in General Studies, provided that it includes (i) Philosophy, and (ii) *either* Greek, *or* Latin, *or* French, *or* German.

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

Some modification of the course and examination required for the first year may be made, subject to the approval of the Board of the Faculty of Arts, for candidates who have obtained a Higher School Certificate or its equivalent.

Subject to the approval of the Board of the Faculty of Arts, 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 not less than five hours a week in each year.

Examination

Essay (1 paper).

General Questions (1 paper).

Logic and Metaphysics (1 paper).

Ethics (1 paper).

Social and Political Philosophy (1 paper).

History of Philosophy (2 papers).

Either Psychology or Principles of Criticism (1 paper).

Oral examination.

In addition candidates shall be required *either* to submit a thesis on an approved topic *or* to present themselves for examination in an approved special aspect of the subject.

SOCIAL STUDIES

Candidates for the Degree of Bachelor of Arts in Special Studies in Social Studies shall be required to

pursue courses of study and submit themselves for examination as follows:

The course of study for the first academic year shall normally include the following four subjects: (1) Social Science (an introductory course on Social Structure, History and Social Economics); (2) Animal Biology, (3) Human Geography, (4) Social Philosophy *or* History *or* Economics *or* Industrial Relations.

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

Subject to the approval of the Board of the Faculty of Arts, suitably qualified candidates may be permitted to vary the course of study for the first year.

During the second and third years, candidates shall be required to attend approved courses for not less than six hours a week in each year; these courses will be given either under Scheme A or under Scheme B.

Scheme A

Social Science,
Social Anthropology,
together with
Psychology and Social
Medicine
or another approved course.

Scheme B

Social Science.
Government and Admini-
stration
together with
Political Philosophy.
or Industrial Relations.
or Economics
or another approved course.

Field work is an essential part of the courses in Social Studies.

Final Examination

Scheme A

Essay	1 paper
Social Science	3 papers
Social Anthro- pology	2 papers
Psychology and Social Medi- cine <i>or</i> another approved course	} 1 paper

Scheme B

Essay	1 paper
Social Science	3 papers
Government and Administration	2 papers
Political Philosophy <i>or</i> Economics <i>or</i> Industrial Rela- tions <i>or</i> another approved course	} 1 paper

ECONOMICS

There shall be two examinations as follows :

I. *Qualifying Examination.*

This examination will be the same as that prescribed for the Degree of Bachelor of Arts in General Studies.

Candidates shall offer four subjects :

- (i) Economics.
- (ii) Three other subjects approved for the Degree of B.A. in General Studies, of which one must be Mathematics if the student wishes to offer Statistics in the Final examination.

II. *Final Examination.*

This will consist of :

- Economic Theory, Paper I (1 paper).
- Economic Theory, Paper II (1 paper).
- Economic Organisation (1 paper).
- Applied Economics (1 paper).
- Statistics or History of Economic Thought (1 paper).
- Economic History (1 paper).
- Essay.

One of the following :

- (1) Advanced Monetary Economics (1 paper).
- (2) Econometrics* (1 paper).
- (3) Economic History (special period or topic) (1 paper).
- (4) Distribution of Income with special reference to Labour and Industrial Relations (1 paper).

During the second and third years, candidates shall be required to attend approved courses of instruction in the Department.

PSYCHOLOGY

Candidates for the degree of B.A. in Special Studies in Psychology will be required to pursue courses of study and to submit themselves for examination as follows :

*First Year***Psychology I**

G.1	General Psychology I	1 hour
S.1	Social Psychology I	1 hour
M.1	Psychometrics I	1 hour
P.1	Introductory Practical Course	1 hour

and three other approved subjects.

* Option available only to students taking Statistics.

*Second Year***Psychology II**

G.2a	General Psychology IIa (Biological, Orectic and Cognitive)	3 hours
G.2b	General Psychology IIb (History and General Applications)	2 hours
S.2	Social Psychology II	1 hour
<i>either</i> M.2a	Psychometrics II	1 hour
<i>or</i> M.2b	Symbolic Logic	1 hour
P.2	Experimental Psychology	3 hours

and *one* approved subsidiary subject.

*Third Year***Psychology III**

G.3	General Psychology III (Modern Schools of Thought, Philosophical Aspects and Epistemic Theory)	3 hours
S.3	Social Psychology III	1 hour
<i>either</i> M.3a*	Psychometrics III	2 hours
<i>or</i> M.3b†	Advanced Psychological Theory	2 hours
P.3	Group experiments and field work	3 hours

and *two* of the following: Educational Psychology, Clinical and Abnormal Psychology, Industrial Psychology, 1 hour each.

All the Psychology courses will involve the study of prescribed books.

Examinations

End of first year:	<i>Two</i> three-hour papers in Psychology. Laboratory note-books to be submitted.
End of second year:	<i>Three</i> three-hour papers. Laboratory note-books to be submitted.
End of third year:	<i>Five</i> three-hour papers. A practical and an oral examination. A minor thesis.

TEXTILE DESIGN

Candidates for the degree of Bachelor of Arts in Textile Design shall be required to pursue courses of study and to submit themselves for examination as follows:

First Year.

Fine Art	} in the Department of Textile Industries, 12 hours a week of lectures and laboratory work.
Textile Design	
Textile Technology	

* for candidates who chose M.2a in second year.

† for candidates who chose M.2b in second year.

Two of the following :

- (i) Economics
- (ii) Psychology
- (iii) An approved modern language
- (iv) Another approved subject.

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

Second Year.

Fine Art

Textile Design

Textile Technology

} in the Department of Textile Industries, 20 hours a week of lectures and laboratory work.

One of the following (normally two hours a week) by arrangement with the Head of the Department concerned :

- (i) Economic History
- (ii) Industrial Psychology
- (iii) An approved modern language
- (iv) Another approved course.

Examination Part I.

At the end of the Second Year of study candidates will take the Part I Examination.

Fine Art

Optional subject.

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

Third Year.

Textile Design

Textile Technology.

Candidates shall also be required to submit a thesis based on original work in Textile Design.

Examination Part II.

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

Fibre Science, Dyeing and Finishing (1 paper).

Raw Materials, Woollen and Worsted Yarn Production (1 paper).

Loom Study, Cloth Structure, and Textile Calculations (1 paper).

Textile Testing and Mill Design and Management B (1 paper).

Complex Textiles and Colour Study (1 paper).

Two practical examinations :

Cloth Analysis

Pattern Design.

Thesis

Oral Examination.

The candidate's performance in the subjects taken outside the Department of Textile Industries will be taken into account.

MATHEMATICS

The course of study and subjects of examination shall include, in addition to the Special Courses in Mathematics :

- (i) the Introductory Course in Statistics ;
- (ii) one subject, other than Mathematics, selected after consultation with the Head of the Department of Mathematics from among those approved under Regulation 6(a) for the Degree in General Studies and studied for two years (or for one year if exemption from the First Year Course is granted).

Students who entered upon Courses of study before October, 1950, will normally proceed to degrees under sections of the Ordinance and Regulations which have been superseded by the above. Details of these sections may be found in the Calendar for the session 1951-52 and in earlier editions.

DEGREE OF BACHELOR OF MUSIC

Ordinance 15. The degree of Bachelor of Music shall be conferred upon candidates who have attended satisfactorily the required courses and have passed the prescribed examinations.

16. All candidates for the degree of Bachelor of Music 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.

17. Every candidate for the degree of Bachelor of Music shall be required to present himself for examination at 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. This examination shall ordinarily be held in June of each year.

18. All candidates for the degree of Bachelor of Music shall be required to attend approved courses of study and to pass the prescribed examination or examinations in :

- (a) Music studied for three years.
- (b) One other subject studied for two years.
- (c) One other subject studied for one year.

19. The subjects selected for study shall be selected from among those defined in the Regulations for the degree of Bachelor of Music.

20. Candidates holding a Higher School Certificate in one of the subjects selected under Clause 18 (b) and (c) may, subject to the approval of the Board of the Faculty of Arts, substitute for the course and examination for the first year in that subject those of the second year, and for the course and examination for the second year those of the third year. If the subject is studied for three years a more advanced course may then be attended in the third year.

21. Candidates shall not be permitted to present themselves for examination in any subject 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.

22. The names of candidates who have passed the examinations for the degree of Bachelor of Music shall be published, the list being arranged in alphabetical order.

23. A candidate for the degree of Bachelor of Music who is not able or who is not allowed to proceed with the prescribed courses may apply to Senate for permission to transfer to courses leading to another Bachelor's degree and to be given credit for any examinations passed in the subjects of his course.

24. The examinations will normally be held in June of each year, but supplementary examinations in one year subjects will also be held in September. Candidates will be accepted for the supplementary examination only with the special permission of Senate.

Regulations 1. Candidates will not be admitted to the courses of study for the degree of Bachelor of Music unless they have satisfied the examination requirements for entry upon degree courses as laid down by the Joint Matriculation Board.

2. Only those applicants who are suitably qualified will be accepted as candidates for the degree of Bachelor of Music. A preliminary test in (a) Musical Theory and (b) performance on a musical instrument will be held.

3. Candidates for the degree of Bachelor of Music shall be required to pursue courses of study and to submit themselves for examination as follows :

The course for the first year shall normally include Music and two other approved subjects in the arts or sciences ; these may with advantage include a modern 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 subjects each candidate will be required to pursue for a further year a prescribed course in one of the subjects approved for the first year course. The Final examination in Music shall consist of five papers in musical subjects and an oral examination. In addition an original musical exercise must be submitted in the third year.

In the first and second years candidates shall be required to attend courses in musical subjects for not less than five hours each week and in the third year for not less than four hours each week throughout the session.

DEGREE OF MASTER OF ARTS

I

Graduates of the University

Ordinance 25. 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.

26. 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 Faculty of Arts, or (b) in special cases by examination on a course of study approved by the Board of the Faculty of Arts; 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.

27. Bachelors of Arts who have obtained the Ordinary degree 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 Faculty of Arts, or (b) in special cases by examination on a course of study approved by the Board of the Faculty of Arts.

Candidates accepted under Article 27 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 (i) 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 Faculty of Arts, to waive the qualifying examination, and (ii) 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.

28. 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 Faculty of Arts, 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 Faculty of Arts, or (b) in special cases by examination on a course of study approved by the Board of the Faculty of Arts.

29. Graduates of the University other than Bachelors of Arts may become candidates for the degree of M.A. under the conditions laid down in Article 27 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 the Faculty of Arts may require.

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

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

32. Certificates of attendance on courses of study in the University shall not be required in the case of B.A. graduates of the University (Honours or Ordinary).

II

Graduates of other Universities

33. 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 M.A.

34. Candidates admitted under the provisions of Article 33 shall be required to fulfil the following conditions :—

- (i) To be registered as students of the University.
- (ii) 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.
- (iii) To attend such courses of lectures at the University as the Senate, on the recommendation of the Board of the Faculty of Arts, may require.

35. 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 Faculty of Arts, or (b) in special cases by passing an examination upon the subjects included in their course of study, provided (1) that candidates who have graduated with Honours, or 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 (2) that candidates who have obtained an Ordinary degree, or have passed the Final examination for an Ordinary degree, shall further be required at the end of the first year of their course of study to pass a qualifying examination in a subject upon which instruction is given in the Faculty of Arts; and shall not be permitted to proceed with the course until they have passed that examination.

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

III

Non-Graduates

36. Persons who are not graduates, or 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.

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

38. Candidates will be admitted under the provisions of Articles 36 and 37 above only if they have obtained a satisfactory result in the examination prescribed in Article 37; and they will then be required to fulfil the following conditions:

- (i) To be registered as matriculated students of the University.
- (ii) To pursue an approved course of study under the supervision of the Head of the Department concerned.
- (iii) To attend such courses of lectures at the University as the Senate, on the recommendation of the Board of the Faculty of Arts, may require.

39. 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 Faculty of Arts, or (b) on the recommendation of the Board of the Faculty of Arts, by presenting a dissertation satisfactory to the Senate on a subject the title of which has already been approved by the Board of the Faculty of Arts, provided:

- (a) 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
- (b) that at the end of the second year of their course of study, they have passed a general examination in the subject of their study, or in the case of candidates proceeding to the degree by dissertation, in the subject within which their dissertation is presented.

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

40. 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.

N.B.—The latest date of entry and payment of fee for all candidates for the June examination is 30th January. Candidates proceeding by dissertation must send in their dissertations not later than 1st May. It is desirable that all candidates who present a dissertation should furnish at least two copies of such dissertation.

Candidates are advised, before making application to the Registrar for acceptance for the M.A. degree, to consult the Head of the Department concerned with the subject they propose to study.

1. Subject to the provisions of Articles 25-40 of Regulations Ordinance II candidates for the M.A. degree must present a dissertation *or* pass an examination in any *one* of the following subjects:

Greek, Latin, Hebrew, English Language and Literature, French, Italian, German, Russian, Spanish, History, Philosophy, Theology, Anthropology†, Economics, Geography, Music, Mathematics,* Psychology.

†The syllabus for the M.A. examination in Anthropology is under revision.

*The M.A. degree in Mathematics may not be taken by examination; candidates must present a dissertation.

2. The preliminary examination for graduates who apply to be accepted under the provisions of Article 26 or Article 33 of the Ordinance and who wish to proceed to the degree of M.A. 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 B.A.

3. Persons who are not graduates and who apply to become candidates for the degree under the provisions of Articles 36 to 40 shall be required :

(i) To present themselves for interview by a Committee of the Board of the Faculty of Arts and subsequently to take an examination consisting of :

(a) Not less than two written papers in subjects approved by the Committee.

(b) An essay.

(c) An oral examination.

It shall be in the discretion of the Committee to exempt an applicant from (c) above.

(ii) To 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 6 hours a week ; *and in subsequent years* on at least two days a week for a total of not less than 4 hours a week if preparing a thesis, or a total of not less than 6 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.

4. 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 33 to 35 (whether by thesis or examination) shall be required to attend for supervised

study in the University in each of the first and second years of their course on at least two days a week for a total of not less than four hours a week.

In special cases this attendance requirement may be varied by the Board.

5. The qualifying examination for candidates accepted under Articles 27 and 33 will consist of not less than two written papers and may also include an oral examination.

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

7. A candidate shall not be permitted to submit as his dissertation 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 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.

Details of Examination.

Candidates proceeding to the degree of M.A. 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. 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. 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. Oral Examination.

Theology

1. An Essay (1 paper).
2. Selected Old Testament subject in English (1 paper).
3. Selected New Testament subject with Greek text (1 paper).
4. Selected period of Church History (1 paper).
5. Selected period or subject of Christian Doctrine (1 paper).
6. Two of the following subjects (1 paper each) :
 Portion of the Old Testament in Hebrew.
 Portion of the Old Testament in Greek.
 A selected non-Christian religion.
 Selected Patristic texts.
 Philosophy of Religion.
7. Oral Examination.

English Language and Literature

SCHEME A (Literature).

1. Shakespeare; or Chaucer and the 15th Century.* (1 paper).
2. The Novel (1 paper).
3. Poetry (1 paper).
4. Two selected periods (1 paper).
5. Special subject.
6. Criticism.

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).
7. Oral Examination.

French Language and Literature

1. Composition (1 paper).
2. Unprepared Translation (1 paper).

*These are taken in alternate years

3. Essay in French (1 paper).
4. History of French Language (1 paper).
5. A Period (or Periods) of Modern French Literature, Thought and Civilisation (1 paper).
6. A Special Subject (1 paper).
7. Oral Examination.

German Language and Literature

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*) (1 paper).
together with
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. Oral Examination.

Italian Language and Literature

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. Oral Examination.

Russian Language and Literature

1. Composition.
2. Unprepared Translation.
3. Slavonic Philology
4. Essay in Russian.
5. Special Period (or Periods) of Russian Literature (2 papers).
6. A Special Period of the History of Russia (1 paper).
7. Oral Examination.

Spanish Language and Literature

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. Oral Examination.

*Middle High German prescribed author or texts :
either Wolfram von Eschenbach
or *Das Nibelungenlied* and *Kudrun*.

History

1. General Paper.
2. English History, Medieval and Modern (2 papers).
3. Sources of English History.
4. *either* Ancient History (to 337 A.D.) : General (2 papers),
with special period in Ancient History (2 papers)
or Medieval History (300 to 1500 A.D.) : General
(2 papers), with special period in Medieval History
(2 papers).
or Modern History (since 1500 A.D.) : General (2 papers)
with special period in Modern History (2 papers).
5. Oral Examination.

Geography

1. Essay (1 paper).
2. Regional Geography (2 papers).
3. Human Geography (2 papers).
4. Special subject (1 paper).
5. 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. Oral Examination.

Music

1. General Paper (1 paper).
2. Special Period (1 paper).
3. Special subject (1 paper).
4. Composition (2 papers).
5. Orchestration (1 paper).
6. Oral Examination.

Candidates may, in place of the papers dealing with the composition and orchestration submit an original composition for Orchestra, Chorus, Orchestra and Chorus, or Chamber Combination; such work to be of not less than thirty minutes' duration.

Permission to submit such a composition must be sought when applying to enter for the examination.

Economics

1. An Essay (1 paper).
2. General Economics (2 papers).
3. *Two* papers on any *one* field of work selected from the following :
Economic History
History of Economic Thought
Economic Theory
Econometrics
Industrial Relations
Money and Banking
International Economics
Public Economics
4. *One* paper on a special subject related to the field of work selected under 3 above.
5. 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, experimental psychology, psychometrics, social psychology, applied psychology, epistemic theory (1 paper each).
5. A short dissertation to be completed during the final year.
6. Oral examination.

DEGREE OF MASTER OF EDUCATION (M.Ed.)

41. 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.

42. Candidates shall be graduates of this University or of another approved University ; save that persons who are not graduates may, if they satisfy the Senate that their educational attainments are adequate and that they are qualified to pursue a course of advanced study and research, be permitted to enter the University and to become candidates for the degree of Master of Education after not less than three years of such advanced study and research.

43. Each candidate shall have obtained either a Diploma in Education of this or another approved University or a qualification which is approved by the Senate as equivalent ; provided that the Senate may, exceptionally, admit as candidates, persons who have not obtained a Diploma in Education or an equivalent qualification ; every such person shall be required before entering upon the course of study to pass a qualifying examination.

44. Every candidate shall, since graduation or 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.

45. 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.

Regulations 1. All candidates will be required to undertake studies in Education including the four following subjects :

History of Education
Theory of Education
Educational Psychology
Methodology.

Full-time students will attend for tuition in these subjects in the first year of their course, at the end of which they will be required to pass an examination consisting of one written paper in each of the four subjects above-named. Part-time students will attend for tuition in these subjects in the first and second years of their course and will be required to take the examinations on two of the above-named courses at the end of the first year of study and on the remaining two at the end of the second year of study.

2. After passing the examination on the studies in Education, a candidate must

either prepare a dissertation upon a subject approved by the Board of the Faculty of Arts ;

or undertake further study in each of two subjects selected from the four included in the studies in Education, and submit a written exercise consisting of an independent study or criticism of some educational subject approved by the Board of the Faculty of Arts.

Candidates presenting a dissertation must also pass a written examination in the subject of the dissertation. Candidates who attend the further course of study must pass an examination consisting of an essay paper together with one written paper in each of the two subjects selected.

3. The Qualifying Examination for persons who have not obtained a Diploma in Education and who wish to become candidates for the M.Ed. degree will include an essay paper and an oral examination.

4. Persons who are not graduates and who apply to become candidates for the degree shall be required :

(a) To present themselves for interview by a Standing Committee of the Board of the Faculty of Arts and subsequently to take an examination consisting of :

1. Not less than two written papers in subjects approved by the Committee.
2. An essay.
3. An oral examination.

It shall be in the discretion of the Committee to exempt an applicant from (3) above.

(b) To 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 6 hours a week ; *and in subsequent years* on at least two days a week for a total of not less than 4 hours. In special cases the above attendance requirement may be modified by the Board on the recommendation of the Standing Committee.

DEGREE OF BACHELOR OF DIVINITY (B.D.)

I

Graduates of the University

Ordinance 46. 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.

47. Graduates of the University may proceed to the degree of B.D. not less than two years after graduation on presenting a thesis satisfactory to the Senate upon a subject approved by the Board of the Faculty of Arts, provided that they have passed the B.D. 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.

Regulations 1. In all cases candidates wishing to present a thesis connected with Old Testament studies must, before acceptance as candidates for the degree, have passed an examination in Hebrew of a standard equivalent to that required of candidates taking Hebrew as a three years subject for the B.A. degree. 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 years subject for the B.A. degree.

2. Candidates for the B.D. Qualifying Examination will be excused those subjects or parts of subjects in which they have passed in their degree examination.

II

Graduates of other Universities

Ordinance 48. Graduates of other Universities may proceed to the degree of B.D. :

- (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 Faculty of Arts, may require ;

- (c) after passing the B.D. Qualifying Examination*;
- (d) after presenting, not less than one year after passing the B.D. Qualifying Examination, a thesis satisfactory to the Senate upon a subject approved by the Board of the Faculty of Arts. Candidates may also be required to pass an examination—written, or oral, or both—in the subject of the thesis.

1. In all cases candidates wishing to present a thesis Regulations 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 years subject for the B.A. degree 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 years subject for the B.A. degree of the University.

2. Candidates for the B.D. Qualifying Examination will be excused those subjects or parts of subjects in which they have passed the equivalent in their degree.

3. 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.

N.B.—The latest date of entry and payment of fee for the June examination is the 30th January. The thesis (which must be submitted not later than 1st May) should be typewritten and at least two copies should be supplied.

* For details see under Courses in Arts (Theology).

DEGREE OF DOCTOR OF PHILOSOPHY (Ph.D.)

Ordinance 49. The Degree of Doctor of Philosophy may be conferred on payment of the appropriate fee and subject to the conditions contained in Articles 50 and 51:

- (a) On persons who are registered graduates of the University of Leeds or graduates of an approved University ;
- (b) On the holder of a Diploma awarded by an approved institution of university rank not empowered to confer degrees, provided that the course of study in the subject for which the Diploma has been awarded has extended over not less than three years of full-time study ;
- (c) In exceptional cases on the holder of a Diploma of the University of Leeds, provided that the Senate is satisfied regarding the course of study towards such Diploma and the standard attained by the candidate in the examination for the Diploma.

50. Except as provided in Article 51 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.

51. 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 49 (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.

NOTE.—Candidates wishing to avail themselves of the provisions of this Article should normally have previously obtained a Master's degree of this or of another approved University by the presentation of a thesis or dissertation. Only candidates with high qualifications who are strongly recommended by the Head of the Department concerned will be accepted under Article 51.

1. Before entering on the course of advanced study and research, candidates are required

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

2. On completing the course of advanced study and research candidates are required

- (a) To present a thesis on the subject of their advanced study and research, and to 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) To 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 to satisfy the examiners in the examination as well as in the thesis presented.

3. 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.

NOTE.—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.

4. A candidate is required during his course to 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.

5. A candidate will not be permitted to submit as his thesis one for which a degree has been conferred upon him 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 to the University 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.

6. 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.

7. 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 will be retained in the University Library.

NOTE.—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.

DEGREE OF DOCTOR OF LETTERS (Litt. D.)

Ordinance 52. 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 Faculty of Arts, to have distinguished themselves by special research or learning.

53. 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.

54. If the application be approved by the Senate, the degree may be conferred at the first convenient date thereafter.

1. All applications 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. A copy of the thesis submitted will be retained in the University Library. Regulations

2. 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.

N.B.—The latest date for application and payment of fee is the 30th of January.

DEGREE OF DOCTOR OF DIVINITY (D.D.)

55. 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 Faculty of Arts, to have distinguished themselves by special research or learning. Ordinance

56. 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.

57. If the application be approved by the Senate the degree may be conferred at the first convenient date thereafter.

Regulations 1. All applications shall be made in writing to the Registrar and shall 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 submitted whether in print or in type-script which the candidate may desire to submit in support of the application. A copy of the work or works approved for the degree shall be retained in the University Library.

2. 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.

N.B.—The latest date for application and payment of fee is the 30th of January.

DIPLOMAS AND CERTIFICATES IN ARTS

Ordinance 58. 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.

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

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

Regulations Candidates for Diplomas are required to give satisfactory attendance upon all the subjects which form part of their course of study, and to present themselves for any class examinations that may be held in the same. Those who

do not pass satisfactorily in these examinations 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.

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.

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.

Graduate Certificate in Education

(see also pages 416 to 418)

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 students 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 to factories, educational institutions, youth clubs and clinics.

Lecture courses are provided as follows :

A. General Courses.

- (i) The educational system of England and Wales (an interpretation of the last 25 years).
- (ii) Educational psychology (elementary).
- (iii) The principles and practice of education.
- (iv) The history of education in Great Britain.

(The course on the principles and practice of education is supplemented by courses in the methodology of the various school subjects. Students are required to take any two of these method courses.)

B. Special Courses.

- (i) Education and society.
- or (ii) Educational psychology.
- or (iii) Education in other countries.
- or (iv) History of education in Great Britain.
- and (v) The modern secondary school.
- or (vi) The primary school.

C. Practical Courses.

- (i) Art and Art Crafts.
- or (ii) Music.
- or (iii) Drama.

D. Optional Courses.

- (i) An introduction to Philosophy.
- (ii) A study of the Bible.

Students are expected to attend all the courses in Section A ; in Section B either (i) or (ii), or (iii) or (iv), and (v) or (vi) ; and one course from Section C. The courses in Section D are optional.

A course is provided in Voice and Speech for all students, with Speech Therapy where needed. All students are also required to attend a course on the Health of the School Child.

Students are strongly recommended to attend one or other of the courses offered by the Physical Education Department which include Scottish Dancing, Social Dancing, Swimming and the usual Games, as well as certain Method Courses.

A special course in Physical Education is given to a small number of selected candidates. It covers the theory, practice and method of physical education as applied to work in primary and secondary Schools. Further particulars can be obtained from the Head of the Education Department.

Candidates for the Graduate Certificate are required to submit by the 1st May an essay of approximately 10,000 words.

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) 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 who fails in the practical part only may, on the recommendation of the examiners, be allowed by the Senate to present that part at a subsequent date without further written examination. In such cases the candidate must produce a satisfactory report from the head teacher of the school in which he has been teaching, and must submit records of the work done.

The session 1951-52 was the last in which the award of the Diploma in Education was made. The qualification awarded at the end of the session 1952-53 will be a Graduate Certificate in Education of the University of Leeds, which will be given on an examination conducted by the University as heretofore.

Graduate students who are successful in this examination will be recommended to the Leeds University Institute of Education for the award of Qualified Teacher Status. The University examiners may bring before a Joint Examining Committee of the Department of Education and the Institute of Education the names of candidates who have not been successful in the examination for the

Graduate Certificate or have not been eligible for it, to be considered for recommendation to the Board of the Institute for the award of Qualified Teacher status.

Diploma in Social Studies

The courses of study for the Diploma in Social Studies are designed to provide specialised training for students who are preparing to engage in social work, either voluntarily or in salaried positions.

As administrative social work develops there is a marked tendency to demand of candidates a sound knowledge of economic and social conditions. The rapid growth of social legislation has made it imperative that the well-trained administrator should see problems as a whole, and not in isolated sections.

Efficient social work depends increasingly upon the accuracy with which people can conduct investigations, interpret evidence and statistics, and devise remedies appropriate to the problems presented.

Careers in Social Work are open to those who hold a Degree or Diploma in Social Studies. Normally a period of professional training, varying from three months to a year, must be added to the University course. The call for qualified social workers is increasing and the following occupations are quoted as an indication of the scope in the field of social service :

Almoning, Child Care, Colonial Social Welfare Service, Community Centre and Settlement Work, Councils of Social Service, County Welfare Officers, Family Case Work, Information and Advice Services, Personnel Management and Industrial Welfare Work, Care of those Physically and Mentally Handicapped (blind, cripples, deaf), Probation Officers, Psychiatric Social Work, Youth Work and Club Leadership, Secretaries of charitable societies, and managers of housing estates.

New opportunities are also to be found in the field of adult education.

Admission to the Course

Candidates for the Diploma should normally be in possession of a General Certificate of Education

specifying that they have satisfied the examiners in a combination of subjects satisfactory to the Head of the Department of Social Studies. Usually the combination of subjects should be similar to that which satisfies the requirements of the Joint Matriculation Board for entry upon a degree course. Candidates who are not in possession of the General Certificate of Education will be required to present evidence that their experience and education have been such as to enable them to profit by the course.

The course will begin in October in each year.

Course of Study

The normal course for the Diploma extends over two years and consists of lectures in the University, together with practical work under the direction of the Tutor. Part of this will consist of continuous work during the long vacation.

Post-graduate Course

Graduates of an approved University may present themselves for examination after attending a modified course of lectures and practical work extending over one year only, the course in each case, modified to suit the requirements of the student in question, to be approved by the Board of the Faculty of Arts.

Lectures

First Year :

SOCIAL SCIENCE I	..	Two hours a week.
SOCIAL PHILOSOPHY	..	} Two hours a week.
or ECONOMICS	..	
PSYCHOLOGY	..	One hour a week.
SOCIAL LEGISLATION	..	One hour a week.

Second Year :

SOCIAL SCIENCE II	..	Two hours a week.
SOCIAL MEDICINE	..	} *Two hours a week.
or INDUSTRIAL RELATIONS	..	
SOCIAL ETHICS	..	One hour a week.
PSYCHOLOGY	..	One hour a week.

*Other subjects may be taken if they are more suitable for the particular career the candidate has in view.

Examinations

An examination will be held at the end of each year in the course. The Diploma will be awarded to students who have passed both first and second year examinations and have obtained satisfactory reports on their practical work.

Separate Classes

Students who are unable to devote two years to the full Diploma course will be admitted by special arrangement to such of the classes as may suit their requirements on payment of the fees for the separate classes in addition to the Library fee.

Diploma in Educational Administration

Courses for this Diploma are arranged by the Institute of Education; for details, see the Handbook of the Institute.

Diploma in Primary Education

Courses for this Diploma are arranged by the Institute of Education; for details see the Handbook of the Institute.

Diploma in Religious Education

Courses for this Diploma are arranged by the Institute of Education; for details see the Handbook of the Institute.

Diploma in Secondary Education

Courses for this Diploma are arranged by the Institute of Education; for details see the Handbook of the Institute.

Diploma in Public Administration

The Course for the Diploma in Public Administration extends over two Winter sessions, comprising in each session about 80 lectures of one hour each.

An examination is held at the end of each session and candidates must pass the examination in each of the subjects in the first year before proceeding to the second year course. The Diploma will be awarded to those who are successful in the examinations after having made satisfactory attendance (*i.e.* not less than 75 per cent.) throughout the complete course.

The lectures are given in the University on Tuesdays and Fridays from 6.15 p.m. to 7.15 p.m. and 7.15 p.m. to 8.15 p.m. each evening.

The tuition fee is £7 a session, with an examination fee of £1 each session.

The syllabus is as follows :—

First Year :

1. General Economics with special reference to modern problems (two hours a week).
2. Current Events.
3. Local Government.

Second Year :

1. Public administration, central and local (one hour a week).
2. Public Finance, central and local (one hour a week).
3. Industrial and Social History of Great Britain since 1760.
4. Economic Change (Statistical).

Students will be required to write at least one essay in connection with the course.

Diploma in Geography

Candidates for the Diploma in Geography must be graduates of a recognised University or must furnish evidence satisfactory to the Senate of educational qualifications sufficient to enable them to profit by the course.

Candidates will ordinarily attend as full-time students in the Department for one session, but in special cases attendance equivalent in time to the foregoing but spread over a longer period may be permitted.

The content of the Diploma course, and the nature and standard of the examination, will be the same as obtain for a student presenting Geography as a subject for the Degree of Bachelor of Arts in General Studies.

The fees payable will be as follows :—

1. In the case of candidates who are graduates of the University of Leeds, and who have previously paid to this University three composition fees of not less than £36 each—

No Registration Fee.

(a) If the course is completed in one year .. £30

(b) If the course is spread over two years .. £18
a year.

2. Other candidates :

Registration Fee £2

(a) If the course is completed in one year .. £36

(b) If the course is spread over two years .. £21
a year.

Diploma in Biblical Studies

The course for the Diploma extends over two sessions of part-time study. It is intended mainly for school teachers, men and women, and is designed to give the teacher an adequate literary, historical and comparative knowledge of the Old and New Testaments. It consists of 64 lectures on the compulsory subjects, and 64 lectures on the optional subjects.

Admission. The course is open to all whose education has been such as to enable them to profit by attendance. Applicants for admission should state their educational qualifications. Students may enter on the course in any year, starting in October.

The University reserves the right to suspend the course, or any of the optional subjects, if the entry of students is regarded as insufficient.

DETAILS OF THE COURSE.

A. Compulsory Subjects. Eight Tuesday evenings before Christmas, and eight after Christmas, for two sessions, from 6 to 8 p.m.

(i) Old Testament at 6 p.m.

(a) An introduction to the books of the Old Testament and Apocrypha.

(b) A general knowledge of the history of Israel from the beginning to A.D. 70, with the historical and archæological background.

(c) The development of religion, ethics and worship during the same period.

(d) Two prescribed books in English.

(ii) New Testament at 7 p.m.

(a) An introduction to the books of the New Testament, with their historical background. A general knowledge of the Synoptic Problem and the elements of Textual Criticism.

(b) The life and teachings of Christ as contained in the Gospels.

(c) The history and religious thought of the Apostolic Age.

(d) A more detailed study of one Gospel and one Epistle in English.

B. Optional Subjects. One or more of the following optional subjects may also be taken. The lectures are given on eight Saturdays before Christmas and eight Saturdays after Christmas, at 10 and 11 a.m., in alternate years as follows:—1951-52, and alternate years thereafter, (i) Elements of Old Testament Hebrew at 10 a.m. and (ii) Elements of New Testament Greek at 11 a.m. 1952-53, and alternate years thereafter, (iii) Church History at 10 a.m., and (iv) Comparative Religion at 11 a.m.

Examination. An examination in the compulsory subjects is held at the end of the two years' course and in the optional subjects at the end of the session in which the lectures are taken. To qualify for the Diploma a candidate must pass the examination after making satisfactory attendance upon the whole course.

Fees. The fee for the course is £5 5s. a session, with an examination fee for the Diploma of £3.

Diploma in Hebrew

The Diploma in Hebrew is designed to meet the requirements of those who desire a thorough practical acquaintance with the Hebrew language and literature and the history of the Jewish people and their institutions.

Admission.

Candidates must furnish evidence, satisfactory to the Senate, of educational qualifications sufficient to enable them to profit by the course.

Duration of Courses.

The course of study will normally extend over six terms, and will consist of five lectures per week (including one hour's conversation) of one hour each to be given in the University ; candidates who can show they possess an adequate knowledge of Hebrew may, with the approval of the Senate, be allowed to take the Diploma after attendance at lectures for four terms.

Examination.

Part I of the examination will be held at the end of the first year, Part II at the end of the second year of the course, and the Diploma will be awarded to those who are successful in the whole examination, after having attended satisfactorily throughout the course.

Lecture Courses.

First term : Elementary Biblical Hebrew ; grammar, composition, retranslation and pointing of prescribed portions. Outline of Jewish history to 130 A.D.

Second and Third terms : More advanced prose passages from the Old Testament ; prescribed portions of Post-Biblical Hebrew ; Hebrew syntax. Introduction to Jewish literature.

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

Sixth term: Modern Hebrew. Outline of Jewish history, from 130 A.D.

Fees

Tuition fee . . . £9 9s. a session (£18 18s. a session where the first and second year courses are taken concurrently).

Examination fee . . . £3 (for Final examination).

Certificate in the Teaching of Hebrew

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

The syllabus for this course, which will consist of two hours a week for three terms, will comprise (a) more advanced classical and modern Hebrew, (b) 10 lectures on the general principles of education to be given by the Department of Education of the University, (c) about 20 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, (d) six months' practical training, under supervision, at a local Jewish school.

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.

Admission.

The course 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 the course. The University reserves the right to suspend the course in any year if the entry of students is regarded as insufficient.

Duration of Course.

The course 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.

Examinations.

Part I of the Examinations will be held at the end of the first year and Part II at the end of the second year of the course ; each Part of the examination will include an oral test and a student must pass Part I *in toto* before proceeding to the second year course. The Diploma will be awarded to those candidates who are successful in the whole examination, after having attended satisfactorily throughout the course ; the Diploma may be awarded with distinction.

Courses.

First Year : Grammar, Translation and Composition, Spanish History and Civilization 1500-1700 or 1800-1945.

Three Literary Texts, to be studied with particular reference to their background.

Second Year : Grammar, Translation and Composition, Phonetics, Spanish Literature 1500-1700 or 1800-1945.

Six Literary Texts, to be studied with particular reference to their background.

First Year

Harmer & Norton, *A manual of Modern Spanish* (University Tutorial Press.)

Cervantes, *El Quijote*, Part I.

Tirso de Molina, *El Burlador de Sevilla* (Clás. Cast.).

Larra, M. J. de, *Artículos escogidos* (Bell).

García Lorca, *Yerma* and *La Casa de Bernarda Alba* (Losada).

Second Year

Pérez Galdós, *El Amigo Manso* (Losada).

Calderón, *Le vida es sueño* and *El Alcalde de Zalamea*.

García Lorca, *Romancero Gitano* (Losada).

Fees

Tuition fee £5 a session.

Examination fee .. £3, payable before sitting the First Year Examination.

COURSES IN ARTS

GREEK LANGUAGE AND LITERATURE

General Studies Course

One Year Course (to be taken in the first year)

Four hours weekly, at times to be arranged.

- (a) Prescribed books.
- (b) Unprepared translation.
- (c) Prose composition.

Books prescribed for June, 1953

Xenophon, *Anabasis* iv.

Euripides, *Alcestis*.

J. Thompson, *Elementary Greek Grammar (Accidence and Syntax)* (John Murray).

North and Hillard, *Greek Prose Composition* (Rivington).

Students are recommended to acquaint themselves with the outlines of the history of Greek literature.

Examination : Two papers of three hours each.

Two Years Course (to be taken in the second and third years)

Four hours weekly, at times to be arranged.

- (a) Prescribed books.
- (b) Prose composition and unprepared translation.
- (c) Outlines of Greek life and thought.

Books prescribed for June, 1953

Homer, *Iliad* XI (Forster—Methuen).

Sophocles, *Philoctetes* (Jebb—Cambridge University Press).

Thucydides, Book iv. (Marchant—MacMillan).

Plato, *Phædo* (Burnet—Oxford).

Books prescribed for June, 1954

Homer, *Odyssey* iii, iv (Stanford—Macmillan).

Sophocles, *Philoctetes* (Jebb—Cambridge University Press).

Thucydides, Book vii. (Marchant—Macmillan).

Plato, *Phædo* (Burnet—Oxford).

Sidgwick, *Greek Prose Composition* (ed. Mountford—Longman).

Students are recommended to acquaint themselves with the outlines of Greek history.

Examination : Three papers of three hours each and one of two hours.

Special Studies and M.A. Courses

The work in this course will comprise composition, translation at sight, and the study of books prescribed for the examinations for Special Studies in Classics, and for the M.A. degree in Greek.

Six hours at times to be arranged.

LATIN LANGUAGE AND LITERATURE*General Studies Course*

One Year Course (to be taken in the first year)

Lectures on Mondays, Wednesdays and Fridays at 10 a.m.

Tutorial hour on *either* Tuesdays at 11 a.m. *or* Thursdays at 10 a.m.

(a) Prescribed Books.

(b) Unprepared Translation and Prose Composition.

(c) Outlines of Roman Political Institutions.

Students are recommended to acquaint themselves with the outlines of Roman History and Latin Literature.

Books recommended :

Ward Fowler, *Rome*.

Wight Duff, *Writers of Rome*.

Prescribed Books for June, 1953

Cicero and Antony (ed. Turbeville, Oxford ; School Latin Series).

Virgil : *Aeneid* II.

Examination

Two papers of three hours each and one of two hours.

Two Years Course (to be taken in the second and third years)

Second Year Lectures and Tutorial Hour :

Mondays, Tuesdays, Wednesdays and Fridays at 12 noon.

Third Year Lectures and Tutorial Hour :

Mondays and Fridays at 3 p.m. Tuesdays and Wednesdays at 12 noon.

- (a) Prescribed Books.
- (b) Unprepared Translation and Prose Composition.
- (c) Outlines of Latin Literature.
- (d) Outlines of Roman Social Institutions.

Prescribed Books for June, 1953

Terence : *Phormio*.
 Cicero : *Pro Lege Manilia*.
 Virgil : *Aeneid VIII*
 Horace : *Odes I-III* (selections).
 Livy IX : (ed. Anderson, Pitt Press).
 Tacitus : *Annals XIV* (ed. Woodcock, Methuen).

Prescribed Books for June, 1954

Plautus : *Captivi* (ed. Lindsay, Oxford).
 Cicero : *Pro Caelio* (ed. Austin, Oxford).
 Virgil : *Aeneid II*.
 Horace : *Odes I-III* (selections).
 Livy : XXII.
 Tacitus : *Annals XIV* (ed. Woodcock, Methuen).

Final Examination

Three papers of three hours each and one paper of two hours

Special Studies and M.A. Course

The work in this course will comprise composition, translation at sight and the study of books prescribed for the examinations for Special Studies in Classics and for the M.A. degree in Latin.

Mondays at 12 noon. Tuesdays at 9 a.m. Thursdays at 9 a.m. and 10 a.m. and Fridays at 12 noon, with other hours to be arranged.

HEBREW LANGUAGE AND LITERATURE

General Studies Course

A student may commence the General Studies course in Hebrew Language and Literature without previous knowledge of the Language.

Grammar : Weingreen—"A Practical Grammar for Classical Hebrew."

One-year course

3 hours a week.

Prescribed Texts :

Genesis 40-48 ; Exodus 15.

Books suggested for study :

Rowley "*The Growth of the Old Testament*" (Hutchinson, 1950).

Albright "*The Archaeology of Palestine*" (1949).

Oesterley and Robinson "*A History of Israel.*"

Examination : 2 papers.

Two years course

3 hours a week and 1 Practical class.

Second Year:

Prescribed Texts :

Deuteronomy, 1-11 ; Isaiah 1-7 ; Psalms 107-118 ;

I Samuel 3-12.

Mishnah, *Sukkah*.

Bialik, the following poems : '*El ha'Aggadah, Ha Kayitz govea.*

Agnon, Siddur Tephillathi (printed in 'Oroth No. 5, p. 3, 1950).

Michah Lebensohn, *Shelomoh wekoheleth*.

Third year :

Prescribed Texts :

Job, 3-10, 28 ; Ezekiel, 1-11 ; Isaiah, 49-55 ; Lamentations.

Ben Sira (Ecclesiasticus), 44-end.

Kimhi's commentary to selected Psalms.

'Ahad Ha'am, *Riv Leshonoth*.

Mendele Mokher Sepharim, portion of *Susathi* (text printed in the *Devir* edition, *Dor Dor wesopheraw* series).

Tschernichowski, '*Ayit 'Ayit, Sha'ul be'En Dor*.

Klausner, portion of the *Life of Jesus* (Hebrew edition).

Books suggested for study for Two-years' course

Rowley "*The Growth of the Old Testament*" (Hutchinson, 1950).

Oesterley and Robinson "*An Introduction to the Books of the Old Testament*" ; "*A History of Israel*" Vols. I and II.

R. H. Pfeiffer "*Introduction to the Old Testament.*"

Albright "*The Archaeology of Palestine*" (1949).

Final Examination : 4 papers.

Special Studies Course

Prescribed Texts :

Grammars : Weingreen : " A Practical Grammar for Classical Hebrew."

Gesenius-Kautzsch's Hebrew Grammar (trans. A. E. Cowley).

Prescribed Texts.

First Year :

Hebrew : Deuteronomy, 1-11 ; Isaiah, 1-7 ; Psalms, 107-118.

Aramaic : The Aramaic portions of Daniel and Ezra (to be studied in connection with the same passages in the Peshitta).

Books recommended for study :

T. H. Robinson, *Syriac Grammar*.

W. B. Stevenson, *Grammar of Palestinian Jewish Aramaic*.

H. H. Rowley, *The Aramaic of the Old Testament*.

Second Year :

Hebrew : Job, 3-10, 28 ; Ezekiel, 1-11 ; Isaiah 49-55 Lamentations.

Mishnah, *Sukkah*.

The Haggadic Midrash " About Simon Kephas " (ed. Yellinek, Batte Midrash, vol. VI, p.9).

Erter, selected passage of *Satires (Hatzopheh Lebeth Yisrael)*.

Smolenskin, short article (to be selected).

Mendele Mokher Sepharim, portion of *Susathi* (text printed in the Devir edition, *Dor Dor wesopheraw* series).

Bialik, the following poems : 'El ha'Aggadah, *Ha Kayitz govea*.

Agnon, *Siddur Tephillathi* (printed in 'Oroth, No. 5, p. 3, 1950).

Aramaic : Selections from the Elephantine Papyri, the *Wisdom of Ahikar*. The Aramaic text of the latter (from A. Cowley's Aramaic Papyri of the 5th Century) will be studied concurrently with the Syriac text edited by Rendel Harris.

Third Year :

Hebrew : Isaiah 49-55 ; Job, 28, 38-42 ; Zechariah, 1-8 ; Haggai, Malachi.

Ben Sira (Ecclesiasticus), 44-end.

Kimhi's commentary to selected Psalms.

Rashi's commentary to Deuteronomy, 32.

' Ahad Ha'am, *Riv Leshonoth*.
 Michah Lebensohn, *Shelomoh wekholeth*.
 Tschernichowski, ' *Ayit ' Ayit, Sha'ul be'En Dor*.
 Klausner, portion of the Life of Jesus (Hebrew
 edition).
 Shimonovitz, selections from *Hammatzebah*.
 Wessely, *Divre Shalom we'Emeth*.

Aramaic : Targum to the Song of Songs.
 Targum Onkelos, Pseudo-Jonathan, and Jeru-
 salem Targum to Genesis 1, Exodus 15,
 Deuteronomy, 32.

Special Third-Year subject :

- one of (a) Advanced Syriac
 (b) Arabic
 (c) Mediæval Hebrew
 (d) Biblical Greek and Papyri.
- (a) *Advanced Syriac*
 Evangelion damepharreshe, Mark, 7-end, with reference
 to the Peshitta text.
 Job of Edessa " *Book of Treasures*," Fifth Discourse,
 chs. III, IV, V.
 Bar Hebraeus, selection from *Chronicle* (Hakim of
 Egypt, Causes of the Crusades ; Bernstein's Chresto-
 mathy, p. 17, ff., 53, ff.).
- (b) *Arabic*
 Arabic grammar—Thatcher.
 Qur'an—Sura Yunus.
 Madjani 'I'-adab—short selection from Arabic histories
 of the Crusades, pp. 313-20.
- (c) *Mediæval Hebrew*
 Selected poems of Moses Ibn Ezra, Solomon Ibn Gabirol
 and Judah Ha-Levi
 Selections from Hoboth ha-Lebaboht by Bahya ben
 Joseph Ibn Pakuda.
 Mibhar ha-Peninim by Solomon Ibn Gabirol.
 Ibn Ezra's commentary on Daniel, chs. 8-12.
- (d) *Biblical Greek and Papyri*
 Judges
 Psalms 1-25
 Greek Papyri by G. Milligan (C.U.P.).

ARABIC

One Year Course

This course is open to all students taking courses in
 General Studies but will be of special interest to Special
 Studies students in the Spanish Department or in the

Hebrew Department ; it can be taken as the one-year subject in the first year of the course.

The course will consist of 3 lectures per week and one Practical class.

Prescribed Texts :

1. Sura Yusuf of the Koran.
2. Short selection from Al-Makkari "*History of the Muslim Dynasties in Spain*."

Should a student desire, he may study instead of selections from Al-Makkari, Selections from Arabic Geographical Literature (edited with notes by M. J. de Goeje), or Selections from the Arabian Nights.

- 1 hour History with special reference to The Conquest and Settlement of the Moors in Spain—e.g. from Battle of Guadalete, 711 A.D., to the Fall of Granada in 1491 A.D.

Examination : 2 papers

Two Years Course

Three hours a week and two practical classes.

Second year :

The following Arabic Texts are prescribed for study :

1. Selections from the Sahih of Al-Bukhari (Semitic Studies Series No. 6. Brill, Leiden), as an introduction to the Hadith Literature.
2. Selections from the Annals of Tabari (Semitic Studies Series No. 1. Brill, Leiden).
3. Al-Ajurumiya—the small classic text book of Arabic grammar in Arabic, to enable the student to make use of Arabic linguistic commentaries on classical Arabic works.
4. Selections of the Mu'allaqat Poems.

Third year :

The following Arabic Texts are prescribed for study :

1. The Qur'an Sura No. 19. (Miriam).
2. The Arabic Commentary by Baidawi on Qur'an Suras 100-114.
3. Select Poems of Abu 'l'Ala 'l-Maari and Al-Muttanabi of the Golden Age of Arabic.
4. Selections from Ibn Khaldun's Prolegomena.

Time will be given in both Second and Third Years of the course to advanced Arabic prose composition and unseen translation.

Books recommended for study—Selections from the following :

- Gibb, *Mohammedism* (Home University Library).
 Tor Andræ, *Mohammed, the man and his life*.
 Muir, *Life of Mohammed* (for reference only).
 Lammens, *Islam, Beliefs and Institutions*.
 Carl Brockelmann, *History of the Islamic people*.
 S. Lane-Poole, *History of Egypt in the Middle Ages*.
 R. Levy, *The Sociology of Islam*.
 De Lacy O'Leary, *Arabic thought and its place in history*.
 Arnold and Guillaume (ed.), *The Legacy of Islam*.
 Nicholson, *The Literary History of the Arabs* (for reference only).
The Koran, translated E. L. Palmer (The World's Classics).
 R. Bell, *Qur'an : translation with a critical re-arrangement of the Surahs*.

Final Examination :

- Four papers : Unseen translation, prose, poetry and composition (1 paper).
 Prescribed Texts (2 papers).
 History, Literature and Culture (1 paper).
 and an Oral examination.

ARAMAIC AND SYRIAC

One Year Course

Three hours a week at times to be arranged.

Instruction in grammar and the reading of texts, pointed and unpointed.

Prescribed Books :

Grammar

- Syriac* : T. H. Robinson, *Syriac Grammar* (Oxford University Press).
 T. Nöldeke, *Compendious Syriac Grammar* (Translated by J. A. Crichton ; Williams and Norgate).
Aramaic : W. B. Stevenson, *Grammar of Palestinian Jewish Aramaic* (Oxford University Press).

Texts :

1. Biblical Aramaic. Daniel 2.4-7.28 : Ezra 4.8-6.18, and 7.12-26.
2. The same passages in the Peshitta (Syriac bible translation)

or

The Gospel of John 1-10 in the Peshitta (not more than 10 chapters).

To illustrate other dialects, e.g. Palestinian Talmud and Midrash and the Targumim, short easy selections will be read but not set for examination.

A course of Lectures (1 hour per week) will be provided during the second and third terms on Aramaic as a *lingua franca* in the Ancient Middle East from the middle of the First Millenium B.C. till the rise of Islam in the 7th Century A.D. when Aramaic gave way before Arabic. Aramaic and its place in Judaism as a religious and cultural medium from the time of the Babylonian Exile till the Middle Ages will be studied. Syriac as a vehicle for the transference of Greek ideas to the Arabs will also be studied; but the place of Syriac as the Church language of Near Eastern Churches and how it was applied by them as a religious and cultural medium will be given the attention it deserves.

Examination : 2 papers

ENGLISH

General Studies Course

In the First Year this course is a combined course given by the Departments of (a) English Literature and (b) English Language and Mediæval Literature. At the end of the First Year candidates may choose *either* Literature *or* Language and Mediæval Literature. Both may not be taken.

English I

A. Subject—Contemporary Literature.

1 hour lecture. Wednesdays at 11 a.m.

Tutorial on alternate weeks.

Set Books

1. Virginia Woolf, *To the Lighthouse* (Everyman).
Compton-Burnett, *A Family and a Fortune* (Eyre and Spottiswood).
2. T. S. Eliot, *Selected Poems* (Penguin).
W. H. Auden, *Selected Poems* (Faber).
3. Bernard Shaw, *Major Barbara* (Penguin).
S. O'Casey, *Juno and the Paycock* (Macmillan).
W. H. Auden, *The Ascent of F6* (Faber).

Recommended Books

- B. Dobrée, *Modern Prose Style* (Clarendon Press).
V. de S. Pinto, *Crisis in English Poetry* (Hutchinson).
E. Bentley, *The Modern Theatre* (Hale).

B. The work will comprise the study of the phonetics, grammar and history of the language.

One hour a week throughout the session, and one hour in alternate weeks, at times to be arranged.

Recommended Books

- O. Jespersen, *The Essentials of English Grammar* (Allen and Unwin).
 G. O. Curme and H. Kurath, *A Grammar of the English Language* : Vol. II *Parts of Speech and Accidence* ; Vol. III *Syntax*.
 J. H. G. Grattan and P. Gurrey, *Our Living Language* (Nelson).
 O. Jespersen, *The Growth and Structure of the English Language* (Blackwell).
 C. L. Wrenn, *The English Language* (Methuen).

Examination

- Two papers : 1. English Literature.
 2. English Language.

Two-Year Course

Candidates proceeding to the two-year course must have passed the examination on the course above, and then may take *either* courses IIA and IIIA (English Literature) *or* Courses IIB and IIIB (English Language and Mediaeval English Literature).

Department of English Literature

English IIA and IIIA

Subject—Outlines of English Literature.

2 hours weekly, 1 hour tutorial.

In alternate years :

- A. Chaucer : The Age of Shakespeare : 17th century.
 B. 1700–1920.

A number of works will be set for special study.

Department of English Language and Mediaeval Literature
English IIB

The work in this course will comprise the study of Old English and Middle English (mainly Chaucer).

There will be two lectures and one tutorial a week at times to be arranged.

Set Books

- W. P. Ker, *English Literature : Medieval* (Home Univ. Lib.), and selected sections in :—
 A. J. Wyatt, *The Threshold of Anglo-Saxon* (Cambridge).
 K. Sisam, *Fourteenth Century Verse and Prose* (Oxford).
 F. N. Robinson, *The Complete Works of Geoffrey Chaucer* (Oxford).

Recommended Books

- R. K. Gordon, *Anglo-Saxon Poetry* (Everyman).
 M. E. Waterhouse, *Beowulf in Modern English* (Bowes and Bowes).
 W. W. Lawrence, *Beowulf and Epic Tradition* (Cambridge, Mass.).
 C. W. Kennedy, *The Earliest English Poetry* (Oxford).
 G. N. Garmonsway, *The Anglo-Saxon Chronicle* (Everyman).
 R. W. Chambers, *England before the Norman Conquest* (Longmans).
 R. W. Chambers, "On the continuity of English Prose" in Harpsfield's *Life of More* (E.E.T.S.).
 J. L. Lowes, *Geoffrey Chaucer* (Oxford).
 N. Coghill, *The Poet Chaucer* (Home Univ. Lib.).

English IIIb

The work in this course will comprise the study of the History of the Language and the vocabulary, syntax and style of modern English writers (especially Shakespeare).

There will be two lectures and one tutorial a week at times to be arranged.

Students should consult their lecturers about the prescribed texts and the books recommended for reading.

Final Examination

- Either* English Literature—two papers,
or English Language and Mediæval English Literature—three papers.

Special Studies Course

First Year

English A and B constitute a first-year course for Special Studies.

A. English Literature

1. Poetry. Spenser *Epithalamion* and *Prothalamion* ; Milton *Paradise Lost*, Books V and VI ; Marvell *Poems* ; Dryden *Religio Laici*, *MacFlecknoe* ; Pope *Essay on Criticism* and *Epistle to Dr. Arbuthnot* ; Wordsworth *The Prelude*, Book VIII ; Byron *Childe Harold* Canto IV ; Browning selected *Dramatic Monologues* ; Eliot *The Waste Land*.

A wider general knowledge will be required, and the following books are recommended as far as available :—

The English Parnassus, ed. Grierson (Oxford) ; *English Poetry*, ed. Muir (Oxford) ; *Paradise Lost*, Books V and VI, ed. Verity (Cambridge) ; Dryden's *Poems* (Everyman) ; Marvell's *Poems* (Muses' Library) ; *Poems, Epistles, and Satires of Pope* (Everyman) ; *The Prelude* (Macmillan) ; *Poems of T. S. Eliot, 1909-1925*, (Faber).

2. Drama. Gammer Gurton's *Needle* ; Marlowe *Dr. Faustus* ; Chapman *The Revenge of Bussy D'Ambois* ; Jonson *Volpone* ; Webster *The White Devil* ; Middleton *The Changeling* ; Heywood *A Woman Killed with Kindness*.

A wider general knowledge will be required and students will be expected to make a particular study of Elizabethan drama. The following books are recommended as far as available :

Six Elizabethan Plays (World's Classics, No. 199) ; Marlowe's *Plays* (Everyman or World's Classics) ; Jonson's *Plays* (Everyman or Mermaid) ; *Restoration Plays* (Everyman) ; F. L. Lucas *Tragedy* ; Meredith *Essay on Comedy*.

3. Weekly essays and discussions in tutorial groups at times to be arranged.

Wednesdays and Fridays at 11 a.m.

B. English Language and Mediæval Literature

The course will include an elementary study of English Phonetics and of the Language, Literature and History of the Old English period.

The following books are selected for study in 1952-53 :
 Wright, *Elementary Old English Grammar* ; Wyatt,
Anglo-Saxon Reader (specified passages) ; C. L. Wrenn,
The English Language.

Mondays and Fridays at 3 p.m. ; Thursdays at
 12 noon.

Books recommended for reading

- H. Bradley, *The Making of English* (Macmillan).
- O. Jespersen, *Growth and Structure of the English Language*
 (Blackwell).
- S. Potter, *Our Language* (Pelican).
- I. C. Ward, *The Phonetics of English* (Heffer).
- L. R. Palmer, *An Introduction to Modern Linguistics*
 (Macmillan).
- B. Dickens and A. S. C. Ross, *The Dream of the Rood*
 (Methuen).
- E. V. Gordon, *The Battle of Maldon* (Methuen).
- R. K. Gordon, *Anglo-Saxon Poetry* (Everyman).
- W. P. Ker, *English Literature : Medieval* (Home Univ. Lib.).
- R. W. Chambers, *England Before the Norman Conquest*
 (Macmillan).
- R. H. Hodgkin, *A History of the Anglo-Saxons*, 2 Vols.
 (Oxford).
- W. L. Renwick and H. Orton, *The Beginnings of English
 Literature* (Cresset Press).

Examination : 2 papers.

Second and Third Year and M.A. Courses

A. Literature.

HAI (Schemes A and C) Second and Third Years

English Poetry from Skelton to the present day.

This course will be given in alternate years. It will
 next be given in 1952-53.

Tuesdays at 12 noon.

Haz. (Schemes A and C) Second and Third Years

The development of the English novel from Lyly to
 the present day.

This course will be given in alternate years. It will
 next be given in 1953-54.

Tuesdays at 12 noon.

Ha3. (Scheme A) Second and Third Years
(as alternative to Hb4).

History of the Language.

- (i) Second Year. Thursdays at 9 a.m.
- (ii) Third Year. Tuesdays at 9 a.m.

Ha4 (Scheme A) Second and Third Years
Middle English Texts and Literature.

This course may be taken only in conjunction with Ha3. It will be given twice a week during the Second Year, and once a week during the Third Year.

- (i) Second Year. Mondays at 10 a.m. as for Hb2, and a second hour to be arranged.
- (ii) Third Year. Wednesdays at 10 a.m., as for Hb3.

Ha5. (Schemes A, B and C) Second and Third Years
Chaucer.

This course will be given in alternate years. It will next be given in 1952-53.

Wednesdays at 11 a.m.

Ha6 (Schemes A and C) Second and Third Years
Drama.

Mondays at 12 noon.

Ha7. (Schemes A and C) Second and Third Years
Shakespeare.

This course will be given in alternate years. It will next be given in 1953-54.

Thursdays at 11 a.m.

Ha8. (Scheme C) Chaucer and Middle English
One hour a week at a time to be arranged.

Ha9. (Schemes A, B and C) Second and Third Years
On a special period.

That for 1952-53 will be 1830-1880.

Wednesdays at 11 a.m.

Ha10. (Schemes A and C)

Criticism. This course will be given in alternate years.
It will next be given in 1953-54.

Ha11. (Schemes A, B and C) Second Year

Tutorial classes on matter in the various courses.
At times to be arranged.

Ha12. (Schemes A and C) Third Year

Seminar classes on one author.
The author chosen for 1952-53 is Swift; for those
taking the Drama Course, Ibsen.
At times to be arranged.

Ha13. (Scheme C)

Milton and his Time
In alternate years: Fridays at 11 a.m.

Ha14. (Scheme C) Second Year

General Lecture. Mondays at 11 a.m.

B. *Language and Mediæval Literature.*

Hb1. (Scheme B) Second Year

English Philology.
Mondays and Wednesdays at 12 noon.

Hb2. (Schemes A and B) Second Year

Middle English with special study of Sisam, *Fourteenth Century Verse and Prose*.
Mondays at 10 a.m.

Hb3. (Schemes A and B) Third Year

Middle English Texts and Literature, with special
study of *The Owl and the Nightingale*, *Havelok the Dane*
and *Sir Gawain and the Green Knight*.
Wednesdays at 10 a.m., and Thursdays at 12 noon.

Hb4. (Schemes A and B) Second and Third Years

Old English Texts and Literature, with special study
of *Beowulf* and the Heroic Fragments.

(i) Second Year. Thursdays at 10 a.m.

(ii) Third Year. Wednesdays at 12 noon.

Hb5. (Scheme B) Second Year

Early Middle English Texts, with special study of B. Dickens and R. M. Wilson, *Early Middle English Texts*.

One hour a week, at a time to be arranged.

Hb6. (Scheme B) Second Year

Gothic.

One hour a week, at a time to be arranged.

Hb7. (Scheme B) Third Year

Introduction to Germanic Philology.

One hour a week, at a time to be arranged.

Hb8. (Scheme B) Third Year

English Philology : Mondays at 10 a.m. and Thursdays at 10 a.m.

Hb9. (Scheme B) Second and Third Years

English Palaeography and Bibliography.

At times to be arranged.

Hb10. (Scheme B) Second and Third Years

Old Icelandic.

(i) Second Year. Two hours a week, at times to be arranged.

(ii) Third Year. Two hours a week, at times to be arranged.

Hb11. (Scheme B) Second and Third Years

Modern Icelandic.

At times to be arranged.

Hb12. (Scheme B) Second Year

English Dialectology.

One hour a week, at a time to be arranged.

Hb13. (Scheme B) Third Year

English Dialectology.

One hour a week, at a time to be arranged.

Hb14. (Scheme B) Second and Third Years

General and English Phonetics.

- (i) Second Year. Two hours a week, at times to be arranged.
- (ii) Third Year. One hour a week, at a time to be arranged.

Hb15. (Schemes A and B) Second and Third Years

Anglo-Saxon Art and Archæology.

- (i) Second Year. One hour a week, at a time to be arranged.
- (ii) Third Year. One hour a week, at a time to be arranged.

Hb16. (Scheme B) Second and Third Years

Old Saxon and Old High German.

By arrangement with the German Department.

Hb17. (Scheme B) Second and Third Years

Old French.

By arrangement with the French Department.

Hb18. (Scheme B) Second Year

Latin Philology.

By arrangement with the Latin Department.

Hb19. (Scheme B) Second Year

Greek Philology.

By arrangement with the Greek Department.

Hb20. (Schemes A and B) Second and Third Years

Essays and discussions.

- (i) Second Year. First term, Old English Literature (Schemes A and B), and second term, Old English Dialects (Scheme B only), at times to be arranged.
- (ii) Third Year. First term, Middle English Literature (Schemes A and B), and second term, Middle English Dialects (Scheme B only), at times to be arranged.

ICELANDIC LANGUAGE AND LITERATURE

General Studies Course

One Year Course

This course will comprise an introduction to Modern Icelandic, and will include (i) a study of the grammar of the language, (ii) prose composition, (iii) practice in speaking Icelandic and (iv) a study of present-day conditions and institutions in Iceland.

Three hours a week at times to be arranged.

Books recommended

- Jónsson, *A Primer of Modern Icelandic* (O.U.P.).
 Lindroth, *Iceland* (Princeton).
 Zoëga, *Icelandic-English Dictionary* (Reykjavik).
 Zoëga, *English-Icelandic Dictionary* (Reykjavik).
 Nordal, *Íslenzk Lestrarbók* (Reykjavik).
 Thorsteinsson, ed., *Iceland 1946* (Reykjavik).

Examination :

Two papers and an oral examination.

Two-year Course (Second and Third years)

This course will comprise: (a) (i) the study of prescribed literary texts in modern Icelandic, (ii) Icelandic prose composition, (iii) practice in Icelandic conversation and (iv) Iceland in the nineteenth and twentieth centuries ;

(b) an introduction to Old Icelandic including (i) a study of the grammar of the language, (ii) detailed study of selected texts, and (iii) the history and institutions of Iceland.

Three hours a week at times to be arranged.

Books recommended

- Einarsson, *Icelandic* (Baltimore).
 Nordal, *Íslenzk Lestrarbók* (Reykjavik).
 Henderson, *Iceland* (Edinburgh, 1819).
 Hooker, *Journal of a tour in Iceland* (London, 1813).
 Coles, *Summer Travelling in Iceland* (London, 1882).
 Burton, *Ultima Thule* (London, 1815).
 Auden and MacNeice, *Letters from Iceland* (Faber).
 Gordon, *Introduction to Old Norse* (O.U.P.).
 Gjerset, *History of Iceland* (New York and London).

Final Examination

Three papers and an oral examination.

PHONETICS

One Year Course

Three hours weekly.

A—*Introduction.*

The mechanism of utterance.

The formation and classification of speech sounds.

B—*English Phonetics.*

Analysis of the phonemic structure of English.

Use of the various forms of broad and narrow transcription.

Study of the student's own speech, and its relation to other types of English.

C—*Phonetic Theory.*

Theories of the phoneme.

Principles of transcription.

Further consideration of speech sounds. Their classification and representation, with examples from a variety of languages.

D—*Practical Work.*

Ear training.

Phonetic dictation.

Study, both private and under supervision, of gramophone recordings, including recordings of the student's own speech.

E—*Linguistics.*

Speech and language.

Phonetics in various kinds of linguistic work.

Examination

2 papers: 1. The Phonetics of English, including several types of transcription.

2. Phonetic theory and its applications.

Oral Test: Phonetic dictation.

FRENCH LANGUAGE AND LITERATURE

General Studies Course

One Year Course

3 hours a week and 1 practical class.

Composition, translation, prescribed texts, together with practical work in French conversation.

Prescribed Texts

- Niklaus and Wood, *French Prose Composition* (Duckworth).
 Ritchie, *French Grammar*, or *Third French Course* (Nelson).
 Molière, *Dom Juan* (Cl. Larousse).
 Voltaire, *Candide* (Contes et Romans, etc. II, Cluny).
 Sartre, *Les Mouches*.
 George, *Géographie économique et sociale de la France*.
 (Pub. Hier et aujourd'hui).

Examination : 2 papers and an oral.

Two Years Course (Second and Third years)

3 hours a week and 1 practical class

Composition, translation, periods of literature and prescribed texts, institutions, together with practical work in French phonetics and conversation.

Prescribed Texts

Second Year

- Niklaus and Wood, *French Prose Composition* (Duckworth).
 Niklaus and Wood, *French Unseens* (Duckworth).
 Ritchie, *French Grammar* (Nelson) or *Third French Course*.
 Grammont, *Petit traité de versification* (Colin).
 Armstrong, *The Phonetics of French* (Bell).
 Corneille, *Horace* (Cl. Larousse).
 Racine, *Bajazet* (Cl. Larousse).
 Lesage, *Turcaret* (Cl. Larousse).
 Beaumarchais, *Le Mariage de Figaro*, 2 v. (Cl. Larousse).
 Musset, *Lorenzaccio* (M.U.P.).
 Mme. de Lafayette, *La Princesse de Clèves* (Droz).
 Lesage, *Gil Blas*, 2 v. (Cl. Larousse).
 Prevost, *Manon Lescaut* (Cl. Larousse).
 Marivaux, *Le Vie de Marianne* (Stock).
 Diderot, *Le Neveu de Rameau* (Penguin).
 Rousseau, *Discours sur l'inégalité*.
 Rousseau, *Discours sur les sciences*.
 Montesquieu, *Pages choisies* (Cl. Larousse).
 Voltaire, *Oeuvres philosophiques* (Cl. Larousse).
 Diderot, *Oeuvres choisies* (Cl. Larousse) Vol I.
 Duverger, *Les Constitutions de la France* (P.U.F.).
 Morazé et Wolff, *Nouveau cours d'histoire, l'époque contemp.*
 (Cohn).

Third Year (General)

- Niklaus and Wood, *French Prose Composition* (Duckworth).
 Ritchie and Simons, *French Passages for Translation* (C.U.P.).
 Grammont, *Petit traité de Versification* (Colin).
 Ritchie, *French Grammar* (Nelson) or *Third French Course*.
 Balzac, *La Rabouilleuse* (Garnier).
 Stendhal, *Le Rouge et le Noir* (Garnier).
 Flaubert, *Education Sentimentale* (Garnier).
 Constant, *Adolphe* (Cl. Larousse).
 D. & G. McMillan, *Anthology of contemporary French novel* (Dent).
 Vigny, *Poésies choisies* (Cl. Larousse).
 Leconte de Lisle, *Poèmes choisis*, ed. Eggli (M.U.P.).
 Hugo, *Les Contemplations*, extraits (Cl. Larousse).
 La légende des siècles, extraits II (Cl. Larousse).
 Baudelaire, *Poésies choisies*, ed. Ferran (Cl. Vaubourdolle).
 Rimbaud, *Poésies*, ed. H. Bouillane de Lacoste (Mercure de France).
 Verlaine, *Fêtes galantes*, etc., ed. Underwood (M.U.P.).
 Barthélemy, *Le Gouvernement de la France*.
 Duverger, *Les Constitutions de la France* (P.U.F.).

Final Examination : 4 papers and an oral.

Special Studies Course

Students taking the Special Studies course in French Language and Literature should consult the Head of the Department as to the lectures they must attend.

Prescribed Texts

First Year

- Ritchie, *New Manual of French Composition* (C.U.P.).
 Niklaus and Wood, *French Unseens* (Duckworth).
 Grammaire Larousse du XXe siècle, or Ritchie, *French Grammar* (Nelson).
 Armstrong, *The Phonetics of French* (Bell).
 Grammont, *Petit traité de versification française* (Colin).
 Rudler, *L'explication française* (Colin).
 Benac, *Vocabulaire de la dissertation* (Hachette).
 Marouzeau, *Précis de stylistique* (Masson).
 Mornet, *Comment préparer et rédiger une dissertation* (Boivin).
 Paton, *Manuel de l'ancien français*.
 Faral, *Petite grammaire de l'ancien français* (Classiques français du Moyen Age).
 Cohen, *Histoire d'une langue—le français* (Edns. Hier et Aujourd'hui, Coll. Civilisation française).
La Chanson de Roland
Fleurs de Rhétorique from Villon to Marot, ed. Chesney (Blackwell).

- Marot, *Poésies choisies* (Cl. Larousse).
 Ronsard, *Poèmes choisis*, ed. Barbier (Blackwell).
L'Art poétique, etc. (C.U.P.).
 Du Bellay, *Choix de poésies* (Lemerre).
Défense et illustration de la langue françoise,
 ed. Chamard (S.T.F.M.).
Anthologie poétique du XVe et XVIe siècles (Larousse).
La Comédie au XVIe siècle (Cl. Larousse).
La Tragédie au XVIe siècle (Cl. Larousse).
 Mairet, *Sophonisbe*, ed. Droz (Textes littéraires français).
 Corneille, *Polyeucte* (Cl. Larousse).
 Racine, *Athalie* (Cl. Larousse).
 Molière, *Dom Juan* (Cl. Larousse).
 Boileau, *Art poétique* (Cl. Larousse).
 Bossuet, *Oraisons funèbres* (Cl. Larousse).
 La Rochefoucauld, *Maximes* (Cl. Larousse).
 Scarron, *Roman comique* (Cl. Larousse).
 *Lot, *La France des origines à la guerre de Cent Ans*
 (Gallimard).
 *Calmette, *Le Moyen Age* (Fayard).
 *Hallynck, *XVIIe et XVIIIe siècles* (Masson).

Second Year

- Ritchie, *New Manual of French Composition* (C.U.P.).
 Ritchie and Simons, *French Passages for Translation*
 (C.U.P.).
- (a) Tristan, Ed. Ewert (Blackwell).
La Chastelaine de Vergi, ed. Whitehead (M.U.P.).
- (b) Rabelais, *Gargantua* (Edns. de Cluny).
 Montaigne, *Selected Essays*, Ed. Boase and Tilley (M.U.P.).
- (c) Descartes, *Discours de la Méthode*.
 Pascal, *Provinciales* (Cl. Larousse).
Entretien avec M. de Saci (C.U.P.).
Pensées (Edns. Diderot).
 Cresson, *Courants de la pensée philosophique*, Vol. 1 (Colin).
- (d) Bayle, *Choix de textes*, ed. Raymond (Egloff).
 Fontenelle, *Oeuvres choisies* (Cl. Larousse).
 Voltaire, *Lettres philosophiques* (Garnier).
Traité de métaphysiques, ed. Patterson (M.U.P.).
Oeuvres philosophiques (Cl. Larousse).
Candide, ed. Taylor (Blackwell).
Encyclopédie (Cl. Larousse).
 Diderot, *Oeuvres choisies* (Cl. Larousse) Vol. I.
 Cresson, *Diderot, oeuvres choisies* (Presses Univ.).
 Rousseau, *Oeuvres choisies*, ed. Flandrin (Hatier).

*These texts are prescribed for students reading French only and not for those in the Special Studies school of Modern Languages and Literatures.

- (e) Mme. de Lafayette, *La Princesse of Clèves* (Droz).
 Prevost, *Manon Lescaut* (Cl. Larousse.).
 Rousseau, *Reveries d'un promeneur solitaire* (M.U.P.).
 Laclos, *Liaisons dangereuses* (Barnard).
 Marivaux, *La Vie de Marianne* (Stock).
 Diderot, *Le Neveu de Rameau* (Penguin).
 Voltaire, *Contes et romans* (Garnier).
 Lesage, *Gil Blas* (Cl. Larousse).
 (f) Hallynck, *Débuts de l'époque contemporaine* (Masson).
 Duverger, *Constitutions de la France* (P.U.F.).

(e) and (f) for students reading French only.

Students entering the second year are reminded of the possibility of (a) presenting a dissertation, and/or (b) taking a special subject in Old French (details later) in the place of one of the above courses.

Third Year

- Ritchie, *New Manual of French Composition* (C.U.P.).
 Ritchie and Simons, *French Passages for Translation* (C.U.P.).
 Chrétien de Troyes, *Yvain* (M.U.P.).
Roman de Renart, Branche I (Cl. fr. du moyen âge).
 Clédat, *Chrestomathie du moyen âge* (Garnier).
 Marie de France, *Lais* (Blackwell).
La Chanson de Roland, ed. Whitehead (M.U.P.).
Fleurs de Rhetorique from Villon to Marot, ed. Chesney, (Blackwell).
 Marot, *Poésies choisies*, (Cl. Larousse).
 Ronsard, *Po mes choisis*, ed. Barbier (Blackwell).
 Ronsard, *L'Art poétique, etc.* (C.U.P.).
 Du Bellay, *Choix de poésies* (Lemerre).
 Du Bellay, *Deffense et illustration de la langue francoyse*, ed. Chamard (S.T.F.M.).
Anthologie poétique du XVe et XVIe siècles (Larousse).
La Comédie au XVIe siècle (Cl. Larousse).
La Tragédie au XVIe siècle (Cl. Larousse).
 Bayle, *Choix de textes*, ed. Raymond (Egloff).
 Fontenelle, *Oeuvres choisies* (Cl. Larousse).
 Voltaire, *Lettres philosophiques* (Garnier).
Traité de métaphysique, ed. Patterson (M.U.P.).
Oeuvres philosophiques (Cl. Larousse).
Candide, ed. Taylor (Blackwell).
Encyclopédie (Cl. Larousse).
 Diderot, *Oeuvres choisies* (Cl. Larousse) Vol. 1.
 Cresson, *Diderot, oeuvres choisies* (Presses Univ.).
 Rousseau, *Oeuvres choisies*, ed. Flandrin (Hatier).
 Gautier, *Fortunio, etc.* (Garnier).
 Balzac, *La Rabouilleuse* (Garnier).
Le Père Goriot (Cl. Larousse).

Stendhal, *La Chartreuse de Parme* (Garnier).
 Flaubert, *Bouvard et Pecuchet* (les textes français, prés par Dumesnil).
 Zola, *L'Assommoir* (Charpentier).

Students reading French only also require

Verlaine, *Fêtes galantes*, ed. Underwood (M.U.P.).
 Baudelaire, *Poésies choisies*, ed. Ferran, Cl. Vaubourdolle (Hachette).
 Leconte de Lisle, *Choix de Poésies* (Lemerre).
 Rimbaud, *Les Illuminations* (Mercure de France).
 Mallarmé, *Poésies*, (Mercure de France).
 Laforge, *Oeuvres complètes*, vol. 1 (Mercure de France).
 Verhaeren, *Choix de Poèmes* (Mercure de France).
 Gide, *Les Nourritures Terrestres* (Gallimard).
 L'immoraliste (Mercure de France).
 La Porte Etroite (Mercure de France).
 Proust, *Du Côté de Chez Swann; Le Temps Retrouvé* (Gallimard).
 Valéry, *Poésies* (Gallimard).
 Eupalinos et l'Ame et la Danse (Gallimard).
 Claudel, *L'Annonce faite à Marie* (C.U.P.).
 Cinq Grandes Odes (Gallimard).
 Pages de Prose (Gallimard).
 Hallynck, *L'époque contemporaine* (Masson).
 Barthélemy, *Le Gouvernement de la France* (Payot).
 Duverger, *Constitutions de la France* (P.U.F.).

The following is also recommended :

Marouzeau, *Précis de stylistique*, 3e ed. (Masson).

ITALIAN LANGUAGE AND LITERATURE

*General Studies Course**

One Year Course†

The study of grammar, of composition and of prescribed texts. Students will also attend a course of lectures on the civilization of Italy.

There will be three hours lectures each week and a further hour each week will be devoted to practical work in the language.

*Open to students who have no previous knowledge of the language.

†Subject to the approval of the Board of the Faculty of Arts, candidates who are specially recommended by the Head of Department may be admitted directly to the Two Years Course in Italian.

Prescribed Texts

- Russo, *Practical Italian Grammar* (Heath-Harrap).
 Butler and Reynolds, *Tredici novelle moderne* (Cambridge).
 Swanson, *Modern Italian One-Act Plays* (Heath-Harrap).
 Pirandello, *Atti unici* (Mondadori).
 Capocelli, *L'Italia nel passato e nel presente* (Heath-Harrap).
 Pascoli, *Myricæ* (Mondadori).
 Carducci, *Odi barbare* (Zanichelli).
 D'Annunzio, *Alcyone* (Mondadori).
 Peers, *Extracts for Translation* (Harrap).

Examination

- Two papers (i) Unseen translation, composition and essay;
 (ii) Literature and civilization;
 and an oral examination.

Two-Years Course

The study of composition, of Italian literature to 1400 and from 1748-1837, together with prescribed texts of those periods, of Italian civilization and of the special subject.

There will be three hours lectures each week and a further hour each week will be devoted to practical work in the language.

*Prescribed Texts**For Examination in 1953:*

- Parini, *Il giorno* (ed. Albini, Sansoni), *Odi* (ed. Bertold Sansoni).
 Goldoni, *La locandiera* (ed. Maddalena, Sansoni).
 Foscolo, *Liriche scelte* (ed. Ferrari-Antognoni, Sansoni or ed. Marinoni, Hoepli).
 Manzoni, *I promessi sposi* (Chapters 1-8 only are prescribed for detailed study).
 Leopardi, *Canti* (ed. Straccali-Antognoni, Sansoni or ed. Jeffrey, Cambridge).
 Dante, *Inferno* (ed. Casini-Barbi, Sansoni).
 Petrarca, *Rime* (ed. Carducci-Ferrari, Sansoni).
Early Italian Texts (ed. Dionisotti-Grayson, Blackwell).
Rimatori del dolce stil novo (Laterza or Rizzoli or UTET).
 Boccaccio, *Novelle scelte* (*Decamerone*) (Sansoni).
Novelle del trecento (ed. Morpurgo, UTET).
 Rossi, *Storia della letteratura italiana* (Vallardi), 3 vols.
 Peers, *Extracts for Translation* (Harrap).
 Shewring, *Modern Italian Prose Usage* (Cambridge).

For Examination in 1954 :

- Parini, *Il giorno* (ed. Albini, Sansoni), *Odi* (ed. Bertoldi).
 Alfieri, *Mirra*.
 Goldoni, *Il ventaglio* (Rizzoli or ed. Zardo, Le Monnier).
 Foscolo, *Liriche scelte* (ed. Ferrari-Antognoni, Sansoni or ed. Marinoni, Hoepli) ; *Le ultime lettere di Jacopo-Ortis* (ed. Muscetta Einaud).
 Manzoni, *I promessi sposi* (Chapters 1-8 only are prescribed for detailed study).
 Leopardi, *Canti* (ed. Straccali-Antognoni, Sansoni or ed. Jeffrey, Cambridge).
 Dante, *Inferno* (ed. Casini-Barbi, Sansoni).
 Petrarca, *Rime* (ed. Carducci-Ferrari, Sansoni).
Early Italian Texts (ed. Dionisotti-Grayson, Blackwell).
Rimatori del dolce stil novo (Laterza or Rizzoli or UTET).
 Boccaccio, *Novelle scelte* (*Decamerone*) (Sansoni).
Novelle del trecento (ed. Morpurgo, UTET).
 Rossi, *Storia della letteratura italiana* (Vallardi), 3 vols.
 Peers, *Extracts for Translation* (Harrap).
 Shewring, *Modern Italian Prose Usage* (Cambridge).

*Special Subjects.**For Examination in 1953 and 1954 :*

- Either* The novella from 1870 with special reference to the work of Giovanni Verga ;
or Modern Italian Drama with special reference to the work of Luigi Pirandello.

Books will be prescribed for each special subject.

Final Examination

- Four papers : Unseen translation and composition (1 paper) ;
 Civilization and essay (1 paper) ;
 Literature, including prescribed texts (2 papers) ;
 and an oral examination.

*Courses for the degree of B.Sc. in General Studies**One Year Course*

The study of grammar, of composition and of prescribed texts. Students will also attend a course of lectures on the civilization of Italy.

There will be three hours lectures each week and a further hour each week will be devoted to practical work in the language.

Prescribed Texts

- Russo, *Practical Italian Grammar* (Heath-Harrap).
 Butler and Reynolds, *Tredici novelle moderne* (Cambridge).
 Swanson, *Modern Italian One-Act Plays* (Heath-Harrap).
 Pirandello, *Atti unici* (Mondadori).
 Capocelli, *L'Italia nel passato e nel presente* (Heath-Harrap).
 Carducci, *Odi barbabe* (Zanichelli).
 Pascoli, *Myricæ* (Mondadori).
 D'Annunzio, *Alcyone* (Mondadori).
 Peers, *Extracts for Translation* (Harrap).

Examination

Two papers :

- (i) Unseen translation, composition and essay.
 - (ii) Literature and civilisation ;
- and an oral examination.

Two Years Course**First Year**

The work will be the same as for the One Year Course.

Second Year

The study of composition, of Italian literature to 1400 or from 1748-1837, together with prescribed texts of the period chosen, of Italian civilization and of the special subject.

There will be three hours lectures each week, and a further hour each week will be devoted to practical work in the language.

Prescribed Texts

For Examination in 1953 and 1954 :

Either :

Literature to 1400.

- Dante, *Inferno* (ed. Casini-Barbi, Sansoni).
 Petrarca, *Rime* (ed. Carducci-Ferrari, Sansoni).
 Early Italian Texts (ed. Dionisotti-Grayson, Blackwell).
 Rimatori del dolce stil novo (Laterza or Rizzoli or UTET).
 Boccaccio, *Novelle scelte* (*Decamerone*) (Sansoni).
 Novelle del trecento (ed. Morpurgo, UTET).
 Rossi, *Storia della letteratura italiana*, Vol. I (Vallardi).
 Peers, *Extracts for Translation* (Harrap).
 Shewring, *Modern Italian Prose Usage* (Cambridge).

Or :

Literature 1748-1837.

- Parini, *Il giorno* (ed. Albini, Sansoni), *Odi* (ed. Bertoldi, Sansoni).
 Goldoni, *La locandiera* (ed. Maddalena, Sansoni).

- Alfieri, *Saul* (in *Tragedie scelte*, ed Porena, Sansoni).
 Foscolo, *Liriche scelte* (ed. Ferrari-Antognoni, Sansoni or ed. Marinoni, Hoepli).
 Manzoni, *I promessi sposi* (Chapters 1-8 only are prescribed for detailed study).
 Leopardi, *Canti* (ed. Straccali-Antognoni. Sansoni or ed. Jeffrey, Cambridge).
 Rossi, *Storia della letteratura italiana*, Vols. II and III (Vallardi).
 Peers, *Extracts for Translation* (Harrap).
 Shewring, *Modern Italian Prose Usage* (Cambridge).

Special Subjects

For examination in 1953 and 1954

One of the following :

1. Galilei : *Saggiatore* or Literary writings.
2. Scientific themes in 18th century Italian literature.
3. The plays of Luigi Pirandello

Books will be prescribed for each special subject.

Examination

First Year

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

Unseen translation, composition and an essay in Italian (1 paper).

Prescribed texts and civilization (1 paper).

Second Year

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

Unseen translation, composition and an essay in Italian on an aspect of the special subject (1 paper).

Literature, prescribed texts and civilization (1 paper).

Three Years Course

First Year

The work will be the same as for the One Year Course.

Second and Third Years

The study of composition, of Italian literature to 1400 and from 1748-1837, together with prescribed texts of the period chosen, of Italian civilization and of the special subject.

There will be three hours lectures each week and a further hour each week will be devoted to practical work in the language.

Prescribed Texts

For examination in 1954 :

- Parini, *Il giorno* (ed. Albini, Sansoni), *Odi* (ed. Bertoldi, Sansoni).
 Goldoni, *La locandiera* (ed. Maddalena, Sansoni).
 Foscolo, *Liriche scelte* (ed. Ferrari-Antognoni, Sansoni or ed. Marinoni, Hoepli).
 Manzoni, *I promessi sposi* (Chapters 1-8 only are prescribed for detailed study).
 Leopardi, *Canti* (ed. Straccali-Antognoni, Sansoni or ed. Jeffrey, Cambridge).
 Dante, *Inferno* (ed. Casini-Barbi, Sansoni).
 Petrarca, *Rime* (ed. Carducci-Ferrari, Sansoni).
Early Italian Texts (ed. Dionisotti-Grayson, Blackwell).
 Rimatori del dolce stil novo (Laterza or UTET, or Rizzoli).
 Boccaccio, *Novelle scelte (Decamerone)* (Sansoni).
 Novelle del trecento (ed. Morpurgo, UTET).
 Rossi, *Storia della letteratura italiana* (Vallardi), 3 vols.
 Peers, *Extracts for Translation* (Harrap).
 Shewring, *Modern Italian Prose Usage* (Cambridge).

Special Subjects.

For Examination in 1954 :

One of the following :

1. The *novella* from the death of Boccaccio to 1600 with special reference to the work of Matteo Bandello.
2. Modern Italian Drama with special reference to the work of Luigi Pirandello.
3. Scientific themes in Italian literature *either* of the 17th century *or* of the 18th century.

Books will be prescribed for each special subject.

Examinations

First Year

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

Unseen translation, composition and an essay in Italian (1 paper).

Prescribed texts and civilization (1 paper).

Third Year (Final Examination)

Four Papers : Unseen translation and composition (1 paper) ;
 Civilization and Essay (1 paper) ;
 Literature, including prescribed texts
 (2 papers) ;
 and an oral examination.

Special Studies Course

Composition, conversation, the history of the language, the history of the literature, prescribed texts, a special subject and Italian civilization will be studied.

First Year

There will be six hours lectures each week.

Prescribed Texts

- Metastasio, *Melodrammi* (ed. Bernardi, UTET).
 Parini, *Il giorno* (ed. Albini, Sansoni); *Odi* (ed. Bertoldi, Sansoni).
 Alfieri, *Tragedie* (ed. Porena, Sansoni).
 Foscolo, *Liriche scelte* (ed. Marinoni, Hoepli or ed. Ferrari-Antognoni, Sansoni).
 Manzoni, *I promessi sposi* (Sansoni or ed. Bellorini, UTET. or ed. Bianchi, Le Monnier).
 Leopardi, *Canti* (ed. Straccali-Antognoni, Sansoni or ed. Jeffrey, Cambridge).
 Carducci, *Odi barbare* (Zanichelli).
 Pascoli, *Myricæ* (Mondadori).
 Pirandello *Sei personaggi in cerca d'autore* (Mondadori); *La vita nuda* (Mondadori).
 Peers, *Extracts for Translation* (Harrap).
 Shewring, *Modern Italian Prose Usage* (Cambridge).
 Pei, *The Italian Language* (Columbia).

Second Year

There will be eight hours lectures each week.

Prescribed Texts

- Alberti, *I primi tre libri della famiglia* (Sansoni).
 Poliziano, *Le stanze* (ed. Momigliano, UTET).
 Castiglione, *Il cortegiano* (ed. Cian, Sansoni).
 Machiavelli, *Il principe* (Sansoni or Hoepli), *Mandragola* (ed. Guerri, UTET).
 Bandello, *Opere* (ed. Flora, Mondadori).
 Ariosto, *Orlando furioso* (ed. Zingarelli, Hoepli).
Early Italian Texts (ed. Dionisotti-Grayson, Blackwell).
 Pei, *The Italian Language* (Columbia).

Third Year

There will be eight hours lectures each week.

Prescribed Texts

- Dante, *Inferno* (ed. Casini-Barbi, Sansoni), *Convivio* (ed. Busnelli-Vandelli, Le Monnier).
 Petrarca, *Rime* (ed. Carducci-Ferrari, Sansoni).
 Boccaccio, *Decamerone* (ed. Ottolini, Hoepli).

- Sacchetti, *Il trecentocvella* (ed. Pernicone, Sansoni).
Rimatori del dolce stil novo (Laterza or Rizzoli or UTET).
Laude drammatiche e rappresentazioni sacre (ed. V. de Bartholomæis, Le Monnier).
Early Italian Texts (ed. Dionisotti-Grayson, Blackwell).
Novelle del trecento (ed. Morpurgo, UTET).
 Pei, *The Italian Language* (Columbia).

Special Subjects :

For examination in 1953 :

- Either* 1. The pastoral to 1600 with special reference to the *Aminta* and to the *Arcadia*.
 or 2. Modern Italian drama with special reference to the work of Luigi Pirandello.

Prescribed Texts

For subject 1 :

- Tasso, *Aminta* (Vallardi or ed. Fassò, Sansoni).
 Guarini, *Pastor Fido* (Laterza).
 Sannazaro, *Arcadia* (ed. Carrara, UTET).

For subject 2 :

- Giacosa, *Tristi amori* (ed. Altrocchi-Woodbridge, Heath-Harrap).
 Chiarelli, *Chimere* (Garzanti).
 R. di San Secondo, *Marionette, che passione !* (Garzanti).
 Pirandello, *La nuova colonia, Non si sa come* (Mondadori).

Essay Paper Subjects

For examination in 1953 : An essay to be written upon a question relating to one of the following :

- (a) Petrarch.
- (b) *La Scienza Nuova*.
- (c) *L'Arcadia*.
- (d) Manzoni.
- (e) Eugenio Montale.

GERMAN LANGUAGE AND LITERATURE

General Studies Course

One Year Course

Prescribed texts, syntax and composition, together with practical work in German conversation.

Lectures : Tuesday at 11 a.m.

Wednesday and Friday at 10 a.m.

Practical class : Monday at 10 a.m.

Prescribed Texts

- Van der Smissen and Fraser: *Modern German Grammar* (Harrap).
 Amburger-Stuart: *Intermediate German Prose* (Duckworth).
 Grillparzer: *Sappho* (Macmillan).
 Stifter: *Der Hochwald* (Insel).
 Keller: *Das Fähnlein der sieben Aufrechten* (Heath).
The Oxford Book of German Verse (Poems 160-262).

Examination

2 papers and an oral.

Two Years Course (Second and Third Years)

Composition, phonetics, periods of literature and prescribed texts together with practical work in German conversation.

History of Literature—Friday at 4 p.m.

Composition—Thursday at 3 p.m.

Prescribed Texts—Wednesday at 12 noon.

Practical Class—Monday or Tuesday at 12 noon.

Prescribed Texts for Examination in 1953

- Lessing: *Nathan der Weise*.
 Herder: *Reisejournal* (ed. Gillies, Blackwell).
 Goethe: *Faust I* (ed. Calvin Thomas, Heath).
 Schiller: *Die Räuber* (ed. Willoughby and Magill, Blackwell);
 Kleist: *Prinz Friedrich von Homburg*.
 Heine: *Zur Geschichte der Religion und Philosophie in Deutschland* (ed. Magill, Duckworth).
 Grillparzer: *König Ottokars Glück und Ende*.
 Keller: *Der grüne Heinrich* (Chapters 1-17) (ed. Fairley, Oxford University Press).
 Meyer: *Der Schuss von der Kanzel* (Parnass).
 Ludwig: *Zwischen Himmel und Erde* (ed. Meyer, Heath).
The Oxford Book of German Verse.
 Hofmannsthal: *Der Tor und der Tod* (ed. Gilbert, Blackwell).

Final Examination

4 papers and an oral as follows:—

- (a) Unseen Translation and Essay.
- (b) Composition.
- (c) and (d) Literature and Texts (2 papers).

No candidate shall be regarded as having satisfied the Examiners unless he reaches an adequate standard in German prose composition and essay.

Lower Elementary Class for Science Students

Mondays and Fridays at 2 p.m.

This class is intended for beginners. Special attention will be given to students of science and technology.

Book recommended

Fiedler and Sandbach: *A First German Course for Science Students*.

Lower Elementary Class for Arts Students

Two hours a week. Times to be arranged.

This class is intended for Arts students wishing to acquire a reading knowledge of German.

Book recommended

M. L. Barker: *German for Sixth Form and Adult Beginners*, (Heffer).

Special Studies Course

Composition, essay writing, conversation, phonetics, historical grammar, medieval and modern texts, periods of literature, German life and thought.

First Year.

(i) History of Literature (1600-1832)—Friday at 4 p.m.

(ii) Modern Texts—Monday at 10 a.m. and Tuesday at 11 a.m.

Goethe: *Urfaust* (ed. Willoughby, Blackwell).

Herder: *Reisejournal* (ed. Gillies, Blackwell).

Mörike: *Gedichte* (ed. Maurer, Duckworth).

Hebbel: *Agnes Bernauer* (ed. Evans, Heath).

Meyer: *Das Amulett* (Condor, Harrap).

(iii) Composition—Friday at 3 p.m.

(iv) Middle High German—Wednesday at 10 a.m.

Wernher der Gartnære: *Meier Helmbrecht* (ed. Gough, Blackwell).

(v) Conversation—Thursday at 10 p.m.

(vi) Phonetics—Tuesday at 12 noon.

The following books are recommended:

Egan: *German Phonetic Reader* (U.L.P.).

Barker: *Handbook of German Intonation* (Heffer).

Second Year.

(i) History of Literature (1600-1832)—Friday at 4 p.m. [as under *First Year* (i)].

(ii) Composition—Wednesday at 12 noon.

(iii) German Essay—Tuesday at 3 p.m.

(iv) Conversation—Thursday at 12 noon.

(v) Middle High German—Thursday at 10 a.m.

Bachmann: *Mittelhochdeutsches Lesebuch* (*Nibelungenlied, Spruchdichtung*).

(vi) Nineteenth Century Literature. Tuesday at 12 noon.

(vii) Prescribed Texts—Friday at 3 p.m.

Lessing: *Nathan der Weise*.

Herder: *Von deutscher Art und Kunst* (ed. Purdie).

Wackenroder: *Herzensergiessungen* (ed. Gillies).

Courses (i) to (vii) are approved for all students in the Special Studies Schools of German and of Modern Languages.

In addition the following course is approved for Scheme A in the Special Studies Schools of German and of Modern Languages:

(viii) Prescribed Texts—Friday at 12 noon.

Closs and Mainland: *Seventeenth Century German Lyrics* (Duckworth).

Schiller: *Wallenstein; Über naive und sentimentalische Dichtung* (ed. Mainland).

And the following courses are approved for Scheme A in the Special Studies School of German:

(ix) Goethe—Time to be arranged.

Werther; Wilhelm Meisters Lehrjahre; Wahlverwandtschaften; Iphigenie; Tasso.

(x) Additional prescribed texts—Tuesday at 10 a.m.

Novalis: *Gedichte und Hymnen* (Parnass).

Hölderlin: *Poems* (ed. Leishman).

Kleist: *Amphytrion; Penthesilea; Prinz Friedrich von Homburg.*

(xi) English Essay—Monday at 11 a.m.

The following courses are approved for Scheme B in the Special Studies School of German :

(xii) English Essay—Monday at 11 a.m. [as under (xi)].

(xiii) History of the German Language—Thursday at 9 a.m.

(xiv) Old High German—Tuesday at 10 a.m.

Barber : *Old High German Reader* (Blackwell).

(xv) Additional Middle High German Texts—Monday at 3 p.m.

Wehrli : *Minnesang vom Kürenberger bis Wolfram* (Francke).

(xvi) Additional Germanic Language—To be arranged in conjunction with the Department of English Language and Medieval English Literature.

The following course is approved for Scheme B in the Special Studies School of Modern Languages :

(xvii) German Philology and Old High German—Time to be arranged.

Barber : *Old High German Reader*.

Third Year.

(i) History of Literature (1600-1832)—Friday at 4 p.m. [as under *First Year* (i)].

(ii) Composition—Wednesday at 10 a.m.

(iii) German Essay—Tuesday at 11 a.m.

(iv) Conversation—Thursday at 11 a.m.

(v) Middle High German—Thursday at 10 a.m. [as under *Second Year* (v)].

(vi) Nineteenth Century Literature—Tuesday at 12 noon [as under *Second Year* (vi)].

(vii) Prescribed Texts—Friday at 3 p.m. [as under *Second Year* (vii)].

Courses (i) to (vii) are approved for all students in the Special Studies Schools of German and of Modern Languages.

In addition the following course is approved for Scheme A in the Special Studies Schools of German and of Modern Languages :

(viii) Prescribed Texts—Friday at 12 noon [as under *Second Year* (viii)].

And the following courses are approved for Scheme A in the Special School of German :

(ix) Goethe—Time to be arranged [as under *Second Year* (ix)].

(x) Additional Prescribed Texts—Tuesday at 10 a.m. [as under *Second Year* (x)].

(xi) English Essay—Monday at 12 noon.

The following course is approved for Scheme B in the Special Studies Schools of German and of Modern Languages :

(xii) Modern Texts—Friday at 10 a.m.

Mörike : *Poems* (ed. Maurer).

Hebbel : *Agnes Bernauer*.

Grillparzer : *Libussa*.

Mann : *Meistererzählungen*. (Manesse).

And the following courses are approved for Scheme B in the Special Studies School of German :

(xiii) English Essay—Monday at 12 noon [as under *Third Year* (xi)].

(xiv) History of the German Language—Thursday at 9 a.m. [as under *Second Year* (xiii)].

(xv) Old High German—Tuesday at 9 a.m.

Barber : *Old High German Reader*.

(xvi) Additional Middle High German Texts—Monday at 3 p.m. [as under *Second Year* (xv)].

(xvii) Additional Germanic Language—To be arranged in conjunction with the Department of English Language and Medieval English Literature.

And the following course is approved for Scheme B in the Special Studies School of Modern Languages :

(xviii) German Philology and Old High German—Time to be arranged.

Barber : *Old High German Reader*.

*Prescribed Texts for Examination in 1953**Special Studies School of German*

SCHEME A.

Walther von der Vogelweide: *Selected Poems* (ed. Richey, Blackwell).

Bachmann: *Mittelhochdeutsches Lesebuch* (Parzival, *Nibelungenlied*, *Spruchdichtung*).

Johann von Tepl: *Der Ackermann aus Böhmen* (ed. Walshe, Duckworth).

Luther: *Sendbrief von Dolmetschen* (ed. Amburger-Stuart, Duckworth).

Closs and Mainland: *German Lyrics of the Seventeenth Century* (Duckworth).

Lessing: *Nathan der Weise*.

Herder: *Von deutscher Art und Kunst* (ed. Purdie).

Goethe: *Poems* (ed. Boyd), *Werther*, *Iphigenie*, *Tasso*, *Faust I and II*, *Wilhelm Meisters Lehrjahre*, *Wahlverwandtschaften*.

Schiller: *Wallenstein*, *Über naive und sentimentalische Dichtung* (ed. Mainland).

Wackenroder: *Herzensergiessungen* (ed. Gillies).

Novalis: *Gedichte und Hymnen* (Parnass).

Hölderlin: *Poems* (ed. Leishman).

Kleist: *Amphytrion*, *Penthesilea*, *Prinz Friedrich von Homburg*.

Heine: *Buch der Lieder* (ed. Tymms, M.U.P.).

Keller: *Gedichte* (Parnass), *Die missbrauchten Liebesbriefe*.

Stifter: *Brigitta*.

Grillparzer: *Weh dem, der lügt*.

Hebbel: *Maria Magdalena*.

Nietzsche: *Vom Nutzen und Nachteil der Historie für das Leben*.

Meyer: *Gedichte*.

Kafka: *Der Prozess*.

Mann: *Buddenbrooks*.

Rilke: *Neue Gedichte*.

Hauptmann: *Einsame Menschen*, *Fuhrmann Henschel*.

Hesse: *Narziss und Goldmund*.

Hofmannsthal: *Der Schwierige*.

SCHEME B.

Wright: *Gothic Primer* (Selections).

Wyatt: *The Threshold of Anglo-Saxon*.

Barber: *An Old High German Reader* (Selections).

Walther von der Vogelweide: *Selected Poems* (ed. Richey).

Bachmann: *Mittelhochdeutsches Lesebuch* (Parzival, *Nibelungenlied*, *Spruchdichtung*, Court Epic).

Wehrli: *Minnesang vom Kurenberger bis Wolfram* (Francke).

Johann von Tepl: *Der Ackermann aus Böhmen* (ed. Walshe).

Luther: *Sendbrief von Dolmetschen* (ed. Amburger-Stuart).

- Lessing: *Nathan der Weise*.
 Herder: *Von deutscher Art und Kunst* (ed. Purdie).
 Goethe: *Faust I and II*.
 Wackenroder: *Herzensergiessungen* (ed. Gillies).
 Mörike: *Poems* (ed. Maurer).
 Grillparzer: *Libussa*.
 Hebbel: *Agnes Bernauer*.
 Mann: *Meistererzählungen* (Manesse).

Special Studies School of Modern Languages

SCHEME A.

- Walther von der Vogelweide: *Selected Poems* (ed. Richey).
 Bachmann: *Mittelhochdeutsches Lesebuch* (*Parzival*,
Nibelungenlied, *Spruchdichtung*).
 Johann von Tepl: *Der Ackermann aus Böhmen* (ed.
 Walshe).
 Luther: *Sendbrief von Dolmetschen* (ed. Amburger-Stuart).
 Closs and Mainland: *German Lyrics of the Seventeenth*
Century).
 Lessing: *Nathan der Weise*.
 Herder: *Von deutscher Art und Kunst* (ed. Purdie).
 Goethe: *Poems* (ed. Boyd), *Faust I and II*.
 Schiller: *Wallenstein, über naive und sentimentalische*
Dichtung (ed. Mainland).
 Wackenroder: *Herzensergiessungen* (ed. Gillies).
 Heine: *Buch der Lieder* (ed. Tymms).
 Keller: *Gedichte* (Parnass), *Die missbrauchten Liebesbriefe*.
 Grillparzer: *Weh dem, der lügt*.
 Hebbel: *Maria Magdalena*.
 Nietzsche: *Vom Nutzen und Nachteil der Historie für das*
Leben.
 Meyer: *Gedichte*.
 Hölderlin: *Poems* (ed. Leishman).
 Mann: *Buddenbrooks*.
 Rilke: *Neue Gedichte*.
 Hauptmann: *Rose Bernd*.

SCHEME B.

- Barber: *An Old High German Reader* (Selections).
 Walther von der Vogelweide: *Selected Poems* (ed. Richey).
 Bachmann: *Mittelhochdeutsches Lesebuch* (*Parzival*,
Nibelungenlied, *Spruchdichtung*).
 Johann von Tepl: *Der Ackermann aus Böhmen* (ed.
 Walshe).
 Luther: *Sendbrief von Dolmetschen* (ed. Amburger-Stuart).
 Lessing: *Nathan der Weise*.
 Herder: *Von deutscher Art und Kunst* (ed. Purdie).
 Goethe: *Faust I and II*.
 Wackenroder: *Herzensergiessungen* (ed. Gillies).
 Mörike: *Poems* (ed. Maurer).
 Grillparzer: *Libussa*.
 Hebbel: *Agnes Bernauer*.
 Mann: *Meistererzählungen* (Manesse).

RUSSIAN LANGUAGE AND LITERATURE

The School of Russian Studies was founded in 1917. Its object is to study the language, literature, history, institutions and the economic conditions of Russia and the achievements of Russian scholars in art and science.

The subject is recognised for a University degree both for the degree of B.A. in General Studies and in Special Studies. Russian can also be taken under the regulations for the Degree in Commerce.

The donor, in endowing the "School of Russian Studies," wrote that he "was of opinion that it would be an illusion to expect that adequate advantage could be taken of Russia as an outlet for our manufactures unless we can be represented out there by our own countrymen equipped with the knowledge of the Russian language."

A certificate (without matriculation or degree) is conferred by the University on students who, after due preparation, can show in examination a thorough practical acquaintance with the Russian language. The course for this certificate extends over not less than two sessions.

General Studies Course

Students are admitted to all Russian courses without previous knowledge of Russian.

One Year Course

Four hours a week of practical instruction in the Russian language at times to be arranged; no formal lectures.

This course is intended to give the student a basic knowledge of Russian vocabulary and grammar. Prescribed is a Russian first reader, such as N. Potapova, Russian, Part I, Kolni-Balozky, Progressive Russian Grammar, Part I, or another of similar scope.

Examination : One paper and an oral.

Two Years Course

Second Year and Third Years

Three hours a week of practical instruction in the Russian language and one lecture, at times to be arranged.

The work of these classes will comprise reading of classical and modern Russian literature, conversation, essays, composition and the revision of grammar. Tuition will be given partly in Russian. One lecture a week on either "The History and Institutions of Russia and the U.S.S.R." or "A Period or Periods of Russian literature."

It is understood that if history and institutions are studied in the second year, literature will be studied in the third year or vice versa.

Final Examination :

Three papers—

- (a) Language.
- (b) Literature.
- (c) History and Institutions.

and an oral.

Prescribed Texts

ПУШКИН:	Пиковая дама
ЛЕРМОНТОВ:	Герой нашего времени
ГОГОЛЬ:	Шинель
ТУРГЕНЕВ:	Отцы и дети
ТОЛСТОЙ:	Казак
ЧЕХОВ:	Вишнёвый Сад
ГОРЬКИЙ:	На дне — Двадцать шесть и одна

A Selection of 19th and 20th Century Poetry

D. S. Mirsky : *A History of Russian Literature.*

E. J. Simmons : *Outline of Modern Russian Literature*
1880-1940.

Books recommended

J. Lavrin : *An Introduction to the Russian Novel.*

E. J. Simmons : *Leo Tolstoy.*

W. H. Bruford : *Chekhov and his Russia.*

E. H. Carr : *Dostoevsky.*

D. S. Mirsky : *Russia.*

ПАВЛОВА : История СССР

E. Pares : *History of Russia.*

P. N. Milioukoff : *Histoire de Russie.*

One Year Course for Science Students

Three hours a week at times to be arranged.

This course is intended for science students wishing to acquire a reading knowledge of Russian.

*Special Studies Course**Prescribed Texts*

ГРИБОЕДОВ:	*Горе от ума
ПУШКИН:	Пиковая Дама *Дубровский Капитанская дочка *Евгений Онегин
ЛЕРМОНТОВ:	Герой нашего времени
ГОГОЛЬ:	Мертвые Души Ревизор Шинель
ТУРГЕНЕВ:	Отцы и дети *Дневник лишнего человека *Ася
ТОЛСТОЙ:	Казак *Смерть Ивана Ильича
ДОСТОЕВСКИЙ:	Вечный муж
САЛТЫКОВ-ЩЕДРИН:	*Избранные сказки
ЧЕХОВ:	Вишнёвый сад *Дом с мезонином *Человек в футляре
ГОРЬКИЙ:	Мать

A selection of 18th, 19th, and 20th Century Poetry.

Mirsky: *A History of Russian Literature*

Lavrin: *An Introduction to the Russian Novel.*

Simmons: *Outline of Modern Russian Literature.*
Leo Tolstoy.

Carr: *Dostoevsky.*

Bruford: *Chekhov and his Russia.*

Texts marked with an asterisk are not prescribed for the course of Modern Languages and Literatures of which Russian is a part.

In addition to the above texts students will be required to read other works of Russian literature in translation.

SPANISH LANGUAGE AND LITERATURE

*General Studies Course**

One Year Course†

Three hours a week and one practical.

Grammar and translation, reading and commentary on two set books. Geography of Spain (for one term).

N.B.—This course is for students with no previous knowledge of the language.

Books recommended

Hills, Ford & Rivera, *A new first Spanish course* (Harrap).

A. P. Valdés, *José* (Harrap).

J. R. Jiménez, *Platero y yo* (Harrap).

Examination : Two papers and an oral.

Two Years Course

Second Year

Three hours a week and one practical.

Grammar and translation, literature and the civilisation of Spain (from the origins to the 20th century).

Third Year

Three hours a week and one practical.

Translation, unseen composition and essays, literature either of Spain or the countries of South America, as detailed below. Either Section I or Section II to be chosen.

- (I) Spanish Literature : All students read four masterpieces from medieval, classical and modern periods, followed by works from either the classical or the modern periods.
- (II) South American Literature and Civilisation : A similar number of texts taken from all periods and studied in relation to the historical development of the continent.

*Subject to the approval of the Board of the Faculty of Arts, candidates who are specially recommended by the Head of the Department may be admitted directly to the Two Years Course in Spanish.

†This course is open to students with no previous knowledge of the language.

Books recommended

Second Year

- Harmer & Norton, *Manual of Modern Spanish* (University Tutorial Press).
 A. P. Valdés, *La Aldea Perdida* (Austral).
 Pérez Galdós, *La desesperada* (Austral).
 García Lorca, *Yerma* (Losada).
 Bécquer: *Rimas y leyendas* (Austral).
 Tamayo y Baus: *Lo Positivo*.
 Pardo Bazan: *Los Pazos de Ulloa*.

Third Year

Section I

- Cervantes, *El Quijote, Part I*.
 Anon, *El poema del Cid* Version de Salinas, Rev. de. Occidente, Madrid.
 Unamuno, *Contra esto y aquello*.
 G. Miro, *El libro de Sigüenza* (Austral).

Division Ia

- F. de Rojas, *La Celestina* (Clás. Cast.).
 Calderón, *El príncipe constante* (Austral).
 Anón, *Poetas de los siglos XVI y XVII*.
 Lope de Vega, *El caballero de Olmedo*.
 Quevedo, *El Buscón* (Clás. Cast.).

Division Ib

- Perez de Ayala, *Belarmino y Apolonio* (Losada).
 P. Baroja, *La nave de los locos* (Espasa).
 R. Valle-Indán, *Cara de Plata* (Austral).
 J. Grau, *El burlador que no se burla, etc.* (Austral).
 F. García Lorca, *Poema del cante jondo. Llanto por Ignacio Sanchez Mejias* (Austral).

Section II

- E. Rodó, *Ariel* (Losada).
 Rubén Darío, *Cantos de vida y esperanza* (Austral).
 Ercilla, *La Araucana* (Austral).
 D. F. Sarmiento, *Facundo* (Bilb. Universal, Madrid).
 Hernán Cortes, *Cartas de relación* (Austral).
 R. Gallegos, *Doña Barbara* (Austral).

Final Examination: Three papers and an oral.

Special Studies Course

This course includes the study of the history of the Spanish language and of Spanish civilisation, the intensive study of selected texts and of various periods of Spanish literature, as follows:

In the first year, contemporary literature ; in the second year, Medieval literature and the Golden Age ; and in the third year not more than three special subjects.

First Year

Modern Literature.

- R. de la Cruz, *Sainetes* (Aguilar).
 Larra, *Artículos de costumbres* (Clás. Cast.).
 Espronceda, *Poesías* (Clás. Cast.).
 García Gutiérrez, *El Trovador*, Harrap).
 Fernán Caballero, *La Gaviota*.
 Pereda, *Escenas montañosas* (Austral).
 J. Barente, *Del natural. La comida de las fieras* (Austral).
 Azorín, *Castilla* (Losada).
 A. Machado, *Poesías completas* (Austral).

Second Year

- Lope de Vega, *L niña de plata* (Austral).
 Calderón, *Autos sacramentales Vol. I* (Clás. Cast.).
 Garcilaso, *Obras* (Clás. Cast.).
 L. de León, *Poesías originales* (Cambridge Univ. Press).
 Góngora, *Poesías*, ed. Barker (Cambridge University Press).
 Tirso de Molina, *El condenado por desconfiado* (Clás. Cast.).
 Quevedo, *Los sueños* (Clás. Cast.—2 Vols.), Antología Poética (Austral).
 Anthology, *Poetas líricos de los siglos XVI-XVII*.

Medieval.

- Poema de mio Cid* (Clás. Cast.).
 Berceo, *Vida de Sto. Domingo* (Austral).
 Juan Ruiz, *El libro de buen amor* (Clás. Cast.).
 Alfonso el Sabio, *Obras*, ed. Solalinde (Austral).
 Juan de Mena, *Laberinto de Fortuna* (Clás. Cast.).

Third Year

Special subjects 1952-1953

- South American Literatures and Civilizations.
 Portuguese Language and/or Literature.
 B. Pérez Galdós.
 The Renaissance in Spain.

PORTUGUESE LANGUAGE AND LITERATURE

*General Studies Course**

One Year Course†

Three hours a week and one practical.

Grammar and translation, reading and commentary on two set books. Geography and history (one term only).

Examination : two papers and an oral.

*Subject to the approval of the Board of Faculty of Arts, candidates who are specially recommended by the Head of the Department may be admitted directly to the Two Years Course in Portuguese.

†This course is open to students with no previous knowledge of the language.

Books recommended

Williams, *An Introductory Portuguese Grammar* (Croft).
A Portuguese Anthology.

Two Years Course*Second year*

Three hours a week and one practical.
Grammar and translation, literature.

Third year

Three hours a week and one practical.
Translation, unseen composition and essays, literature (as for Second Year, with additional material, possibly Brazilian, for third-year students).

Examination: three papers and an oral.

Books recommended

Poesia medieval 1. Cantigas de Amigo, ed. Hernani Cidade (Textos literarios).

Fernão Lopes, *Cronica de D. João I*, ed. Rodrigues Lapa (Textos literarios).

Gil Vicente, *Quem tem farelos*, ed. Campos de Andrade (Textos literarios).

Cortes de Júpiter, ed. Marques Braga (Textos literarios).

Bernardim Ribeiro, *Menina e moca*, ed. Salgado Junior (Textos literarios).

História trágico-marítima, ed. Rodrigues Lapa (Textos literarios).

Luis de Camões, *Os Lusíadas*, ed. Cláudio Basto (Marãnus).

Francisco Manuel de Melo, *Relogios falantes* (Textos literarios).

HISTORY*General Studies Course*

All students taking General Studies, who include History in the course either for one year or for three years, will take in the first year *two* papers in History, from the following:

First Year

IA. The History of England in Outline (Tuesdays and Thursday at 2 p.m.).

IB. Europe in the nineteenth century (Tuesday at 12 noon).

IC. Outlines of Greek and Roman History (Tuesday and Thursday at 12 noon).

ID. Medieval Society (Tuesday at 11 a.m.).

Students will take IA or IC with either IB or ID.
Tutorial and essay work is required.

Examinations : Two papers of 3 hours each.

Second and Third Years

For students taking History as one of the subjects for the degree of B.A., the course in the second and third year will be in preparation for an examination in the third term of the third year, consisting of 3 papers to be selected, on the advice of the Head of the Department*, from the following :

- (a) Greek History, 478-362 B.C.
- (b) Roman History, 133-44 B.C.
- (c) Roman Britain.
- (d) Medieval Forms of Government.
- (e) The Social and Economic Development of the North of England.
- (f) The History of the British Empire.
- (g) The History of Europe in Outline.
- (h) The Sources and Literature of English History.
- (j) Anglo-American relations, 1812-1899.
- (k) The political and economic history of England in relation to comparable developments in other countries to 1400.
- (l) The political and economic history of England in relation to comparable developments in other countries from 1400 to 1700.
- (m) The political and economic history of England in relation to comparable developments in other countries from 1700 to the present day.

Lectures : 3 hours a week. Tutorial and essay work is required.

Examinations : One paper of 3 hours in each subject.

PHILOSOPHY

General Studies Course

One Year Course

Three lectures each week throughout the session at hours to be arranged.

This course falls into *two* parts :

- IA. The Elements of Logic (one hour) (Susan Stebbing, *Modern Elementary Logic*. Methuen).
- IB. Plato's *Republic* (two hours) (Trans. F. M. Cornford. Oxford University Press).

The course is intended to give a general introduction to philosophical questions suitable to students of diverse interests in different faculties.

Examination : Two papers.

* Normally the examination will consist of two papers selected from (k) (l) (m) and one from (a) — (j).

Two Years Course
Second Year

Three lectures each week throughout the session at hours to be arranged.

For this course there are four alternatives, each consisting of one course of lectures of *two* hours a week and a second of *one* hour a week.

The alternatives for the former are :

- IIA. History of Ancient Philosophy.
- IIB. History of Modern Philosophy I (XVIIth Century).
- IIC. Philosophy of Science.
- IID. Politics and Ethics I (a historically treated survey of moral and political ideas from the ancient world to the end of the XVIth Century).

One of these must be combined with *either* Introduction to Psychology *or* Introduction to Theory of Knowledge (each *one* hour a week).

The choice of courses is subject to approval by the department.

All the above courses will involve the study of prescribed books.

Third Year

Three lectures each week throughout the session at hours to be arranged.

For this course there are four alternatives, each consisting of one course of lectures of two hours a week and a second of one hour a week.

The alternatives for the former are :

- IIIA. History of Modern Philosophy II (XVIIIth Century).
- IIIB. Moral Philosophy (this course is based on the special study of certain classics in the subject).
- IIIC. Politics and Ethics II (a historically treated survey of moral and political ideas from the XVIth Century).
- IIID. Contemporary Philosophy (a critical survey of issues prominent in philosophical discussion to-day, with special attention to the theory of knowledge).

One of these must be combined with either social psychology or the study of a specially set book or books, of importance for some branch of the subject, to be prescribed from year to year (each *one* hour a week).

The choice of courses is subject to approval by the Department.

All the above courses will involve the study of prescribed books.

Final Examination : Two papers.

Social Ethics

A course on this subject is given for students in the department of Social Studies taking the Diploma in Social Studies.

Social Philosophy

This course is mainly for students taking the degree course in the Department of Social Studies.

Special Studies Course

Additional lectures will be given for students taking the Special Studies Course in Philosophy, including courses in advanced Logic and in Mediæval Philosophy.

THEOLOGY

Courses towards this degree are provided by the staff of the University in co-operation with the associate lecturers recognised for this purpose by the Senate, from the staffs of the Wesley College, Headingley, the Rawdon Baptist College, the Yorkshire United Independent College, Bradford, and the College of the Resurrection, Mirfield.

Syllabuses

1. Hebrew and Old Testament

First Year. Two hours a week. Old Testament I (Hebrew), consisting of :

Hebrew Grammar.

Translation, exegesis, retranslation and pointing of set portions of the Old Testament. The set portions for 1952-53 are Gen. 40-44 and Ex. 15.

Introduction to the Pentateuch.

Second Year. Three hours a week.

History and Religion of Israel to the beginning of the Exile, with introduction to the relevant literature of the Old Testament.

Either Option (i) :

Prescribed Old Testament texts in Hebrew with translation, exegesis and grammar. The texts prescribed for 1952-53 are Deut. I-II, Is. 1-7, Ps. 107-110 ;

and for 1953-54 are

1 Sam. 16-24, Is. 1-7, Ps. 90-100.

Or option (ii) :

Prescribed Old Testament texts in Hebrew with translation, exegesis and grammar, together with prescribed Old Testament texts in English. The texts prescribed for 1952-53 are

(a) in Hebrew : Deut. I-II,

(b) in English : Hosea, Is. 1-39 ;

and for 1953-54 are

(a) in Hebrew : 2 Sam. 9-19 verse 9,

(b) in English : Jer. 1-32, Amos.

Or Option (iii) :

Prescribed Old Testament texts in English. The texts prescribed for 1952-53 are

Josh., Judges, Hosea, Is. 1-39 ;

and for 1953-54 are

Jer. 1-32, Amos.

Third Year. Three hours a week.

History and Religion of Israel from the beginning of the Exile to A.D. 70, with introduction to the relevant literature of the Old Testament and Apocrypha.

Either Option (i) :

Prescribed Old Testament texts in Hebrew with translation, exegesis and grammar. The texts prescribed for 1952-53 are :

Ezek. 1-11, Job 3-10, 28, Is. 49-55 ;

and for 1953-54 are :

Is. 49-55, Job 28, 38-42, Zech. 1-8, Hg., Mal.

Or Option (ii) :

Prescribed Old Testament texts in Hebrew with translation, exegesis and grammar, together with prescribed Old Testament texts in English. The texts prescribed for 1952-53 are :

(a) in Hebrew : Is. 49-55,

(b) in English : Ezek. 1-24, 33-37, Dan.,

and for 1953-54 are :

(a) in Hebrew : Jer. 1-3, 7, 31 ;

(b) in English : Is. 40-66, Mal.

Or Option (iii) :

Prescribed Old Testament texts in English. The texts prescribed for 1952-53 are :

1 and 2 Chron., Ezek. 1-24, 33-37, Dan.,

and for 1953-54 are :

Ezr., Neh., Is. 40-66, Mal.

All prescribed texts in English are to be studied in the Revised Version.

II. New Testament Language and Literature

First Year. *Either* Classical Greek I,

Or New Testament Greek.

Second Year. Three hours a week.

The grammar and syntax of New Testament Greek.

Translation, criticism and exegesis of a prescribed Gospel. The Gospel set for 1952-53 is St. Mark.

Introduction to the Gospels and the Acts of the Apostles ; textual criticism of the New Testament.

Third Year. Three hours a week.

Unprepared translation from the Greek New Testament.

Translation, criticism and exegesis of a prescribed Epistle. The Epistle set for 1952-53, is Hebrews.

Introduction to the Epistles and the Apocalypse ; history of the formation of the New Testament canon.

Books recommended

Vincent Taylor : *The Gospels*.

F. B. Clogg : *Introduction to the New Testament*.

F. G. Kenyon : (1) *Textual Criticism of the New Testament*, and (2) *Text of the Greek Bible*.

Kirsopp Lake : *Text of the New Testament*.

A. Souter : *Text and Canon of the New Testament*.

C. A. Anderson Scott : *Christianity according to St. Paul*.

St. Mark : *Commentaries by Swete* (Macmillan) or *Rawlinson* (Westminster Commentary).

Hebrews : *Commentaries by Moffatt* (I.C.C.) or *Westcott* (Macmillan).

III. Church History

Two lectures a week. Candidates take two periods, selected from (a), (b) and (c), one in the first year and the other in the second year :—

- (a) A.D. 70 to 313. Vol. I of Kidd's *Documents Illustrative of the History of the Church* will be studied in connection with this course.
- (b) A.D. 313 to 451. Vol. II of Kidd's *Documents* will be studied in connection with this course.
- (c) General Church History from A.D. 1054 to 1600 or from A.D. 1453 to 1845.

Books recommended

Periods (a) and (b).

Foakes Jackson : *History of the Church*.

J. W. C. Wand : *History of the Early Church to 500 A.D.*

J. Moffat : *First Five Centuries of the Church*.

B. J. Kidd : *History of the Church to A.D. 461*.

Period (c).

Williston Walker : *History of the Christian Church* (T. T. Clark).

J. W. C. Wand : *A History of the Modern Church* (Methuen).

M. Deanesly : *History of the Medieval Church* (Methuen).

IV. History of Religion.

Two lectures a week. See below.

V. Philosophy of Religion. I

The definition of religion and its relation to other human activities.

The arguments for the existence of God.

The various types of religious belief (such as polytheism, pantheism, deism, theism).

The nature and attributes of God and his relation to man and the world ; the idea of immortality.

The relation of faith to reason ; general and special revelation.

Books recommended (selected from)

- G. Galloway : *The Philosophy of Religion*.
 Miall Edwards : *The Philosophy of Religion*.
 E. S. Waterhouse : *The Philosophical Approach to Religion*.
 A. Lee : *Groundwork of the Philosophy of Religion*.
 E. S. Brightman : *A Philosophy of Religion*.
 J. Baillie : *Our Knowledge of God*.
 A. Richardson : *Christian Apologetics*.

Philosophy of Religion. II

Modern exponents of theism, and its relation to certain difficulties, with a prescribed modern text.

The following questions are specially to be considered:—The problem of evil ; the modern scientific outlook and the theistic view of nature ; the bearing of modern psychology on religion ; the theistic view of history.

Books recommended (selected from)

- F. R. Tennant : *Philosophical Theology*.
 J. B. Pratt : *The Religious Consciousness*.
 R. Otto : *Naturalism and Religion*.
 R. Niebuhr : *The Nature and Destiny of Man*.
 J. Baillie : *The Interpretation of Religion*.
 J. W. Oman : *The Natural and the Supernatural*.
 H. H. Farmer : *The World and God*.
 K. Heim : *God Transcendent*.
 E. Brunner : *Revelation and Reason*.
 W. G. de Burgh : *Towards a Religious Philosophy*.

VI. Biblical and Historical Theology

Two lectures a week in the second and third years. The course is divided into two sections, which are taken in alternate years :

Section A. The Incarnation and the Trinity with special reference to the following : The Old Testament antecedents ; New Testament data and their interpretation ; the controversies of the Conciliar Period ; the Middle Ages and the Reformation Period ; modern presentations.

Section B. The Atonement with special reference to the following : The Old Testament antecedents ; New Testament data and their interpretation ; early Christian conceptions, Greek and Latin, of salvation through Christ ; the teaching of Anselm and Abelard ; Reformation and Post-Reformation conceptions of the Atonement ; modern presentations.

Section *B* will be taken during the session 1952-53 and Section *A* during the session 1953-54.

Books recommended

H. R. Mackintosh : *The Person of Christ*.

A. E. J. Rawlinson : *Essays on the Trinity and the Incarnation*.

A. E. J. Rawlinson : *The New Testament Doctrine of the Christ*.

Vincent Taylor : *The Atonement in New Testament Teaching*.

J. K. Mozley : *The Doctrine of the Atonement*.

A. B. Davidson : *Theology of the Old Testament*.

QUALIFYING EXAMINATION FOR B.D. DEGREE

1. The qualifying examination referred to in Articles 47 and 48 of Ordinance II 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).
Ecclesiastical 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).

2. The syllabus for the qualifying examination for the B.D. degree is that prescribed for the relevant subjects of the degree of B.A. in Special Studies (Theology).

3. If desired the first part of the qualifying examination in each subject may be taken in one year and the second part in the subsequent year. Candidates who wish to divide the qualifying examination in this way will be required to take the appropriate papers for the degree of B.A. in Special Studies (Theology).

Entries for the qualifying examination must be made on the appropriate form not later than 30th January.

BIBLICAL STUDIES

General Studies Course

A subject approved for the Degree in General Studies for which the course covers one or three years. Science students may take Biblical Studies I and II as a two years subject.

One Year Course

First Year.

I. History and religion of Israel to the beginning of the Exile, with introduction to the literature. Introduction to the Gospels and the Acts of the Apostles. Textual criticism of the New Testament.

Two Years Course (Second and Third Years)

Second Year.

II. History and religion of Israel from the beginning of the Exile to A.D. 70, with introduction to the relevant literature of the Old Testament and Apocrypha. Introduction to the Epistles and the Apocalypse. History of the formation of the New Testament canon.

Third Year.

III. Set books of Old Testament and New Testament. The set books for 1952-53 will be Josh., Judg., Hosea, Is. 1-39, Mark, Rom.

Special Studies Course

First Year.

Classical Greek I.

Old Testament I (Hebrew) (as for B.A. in Special Studies in Theology 1st year).

Old Testament Introduction and History.

Second Year.

Either New Testament in Greek (as for B.A. in Special Studies in Theology 2nd year).

Or Old Testament II option (i) (as in B.A. in Special Studies in Theology 2nd year).

A short course in the omitted alternative, Hebrew or New Testament Greek.

Contents of the Old Testament.

New Testament Introduction and History.

English Church History from the beginning to A.D. 1800.

Third Year.

Either New Testament in Greek (as for B.A. in Special Studies in Theology 2nd year).

Or Old Testament III option (i) (as for B.A. in Special Studies in Theology 3rd year).

Contents of the New Testament.

Biblical and Historical Theology (as for B.A. in Special Studies in Theology, Section A or B).

Special subject to be arranged.

HISTORY OF RELIGION

General Studies Course

A subject approved for the degree in General Studies, for which the course covers one or three years. Science students may take History of Religion I and II as a two years' subject. (Two lectures a week.)

One Year Course

I. The great living religions of the world, together with the chief ancient polytheisms, in their relations with one another and with Christianity.

Two Years Course

Second Year

II. One of the great living religions of the world to be studied in greater detail. The selected subject will be one of two taken in alternate years.

Third Year

III. A detailed study of the alternative subject not taken in II above in the previous year.

For 1952-53 the selected subject of the second and third year courses will be Islam.

ECONOMICS**One Year Course**

Two hours lectures a week on General Economics, and one hour a week tutorial.

Students are required to write essays for their tutorial classes about once every three weeks during term.

Supplementary lectures (on which no examinations are set) totalling one hour a week altogether, are given as introductions to Economic History and to systematic Economic Theory for students who intend to take Economics for more than one year.

Examination : Two papers.

Two Years Course

In the second and third years, lecture courses and tutorial classes are provided to prepare students for the following examinations :

1. Economic Theory, Paper I.
2. Economic Theory, Paper II.
3. Economic Organisation or Economic History.

Attendance at tutorials fortnightly during term will be required, and students will write essays fortnightly or monthly.

Lectures : Three hours a week.

Final Examination : Three papers.

INDUSTRIAL RELATIONS**One Year Course**

Three hours lectures a week.

History of industrial relations, with special reference to British developments since the beginning of the 19th century : one hour.

General Economics : two hours.

Examination : Two papers : History of Industrial Relations : General Economics.

Two Years Course

Three hours lectures a week.

Second Year

1. Industrial relations at the workplace, including labour management, selection and training of workpeople, time and movement studies, methods of wage payment, joint consultation, industrial welfare and profit-sharing.

2. Collective relations, including a study of the structure and problems of trade unions and employers' organisations, collective bargaining, causes of industrial disputes and methods of conciliation and arbitration.

3. Principles and methods of industrial psychology.

Third Year

1. The study at a more advanced level of problems treated in the second year courses. International aspects of industrial relations will be examined, including the work of the International Labour Organisation.

2. Economic aspects of industrial relations.

3. State participation in industrial relations, including the Factories Acts, State regulation of wages and State intervention for the settlement of industrial disputes.

Final Examination : Three papers of 3 hours each.

GEOGRAPHY

General Studies Course

One Year Course (First year)

A.—General World Geography—2 lectures a week.

B.—Practical Work (Cartography I)—2 hours a week.

C.—Tutorial and Essay work.,

Examination

2 papers : (i) General World Geography.
(ii) Cartography

Two Years Course (Second and Third Years)

Normally students will undertake :

A. (i) Outlines of Human Geography—2 lectures a week.

- (ii) A regional study of the British Isles—
1 lecture a week.
- (iii) Practical work (Cartography II)—3 hours
a week.

B.—One of the following :

- (i) Economic and political geography—
2 lectures a week, together with
The study of one selected region—
1 lecture a week.
- (ii) History of geographical discovery and
exploration—1 lecture a week, together
with
The study of two selected regions—
1 lecture a week each.
- (iii) Physical geography—1 lecture and two
hours practical work a week, together
with
The study of two selected regions—
1 lecture a week each.

C.—Tutorial and essay work in both sessions.

Final Examination

- 4 papers : (i) Human Geography.
(ii) Regional Geography I.
(iii) Regional Geography II.
(iv) Economic and Political Geography *or*
History of Geographical Discovery and
Exploration *or* Physical Geography.

Special Studies Courses

First Year

- A.—General world geography—2 lectures a week.
- B.—A regional study—1 lecture a week.
- C.—Cartography—2 hours a week.
- D.—Tutorial and essay work.

Second Year

- (A) Outlines of human geography—two hours per
week.

(B) Physical geography—one lecture and two hours laboratory per week.

(C) A regional course—one lecture per week.

(D) History of geographical discovery and exploration—one hour per week.

Tutorials and discussions at times to be arranged.

Third Year

Lectures and discussion classes, about 8 hours, at times to be arranged.

SOCIAL SCIENCE

One Year Course

Two hours a week and seminar.

An introductory course on social structure, history and social economics.

Examination : Two papers.

Two Years Course

Second Year

Three hours a week.

Structure and functions of social institutions ; Investigation and measurement of social phenomena ; Social Surveys ; Relation of people to areas ; Population studies ; Social insurance.

Third Year

Three hours a week.

Comparative social legislation ; Statutory and voluntary social services ; Impact of industrial and scientific developments on social organisation ; Major social problems : Poverty, unemployment, housing, crime and delinquency ; Standards of living.

Final Examination :

Three papers—Social History.

Social Structure.

Social Problems.

SOCIAL STUDIES

Special Studies Course

Social Science

First Year

An introductory course on social structure and institutions.

Second and Third Years

Second and Third Year Courses will include the following subjects :—

Elements of Ethics (1 hour per week throughout the second Session)

Social Institutions.

Relations of people to areas.

Population studies.

Standards of progress.

Investigation and measurement of social phenomena.

Comparative social legislation.

Social Insurance.

Statutory and voluntary social services.

Impact of industrial and scientific developments on social organisation.

Major social problems : Poverty, Unemployment, Housing.

Standards of living.

Delinquency and Crime.

Animal Biology

First Year

The living world—organism and environment—form and function. The fundamental biological laws—self preservation and reproduction. Classification of animals—man's place in the animal kingdom. Heredity, variation and evolution.

Co-ordination and regulation—sense organs, nervous system, hormones. Animal behaviour—tropisms—reflexes and conditioned reflexes—instincts, habits and behaviour patterns.

Animal associations—parasitism and symbiosis—aggregations, social life—the biological basis of human society.

Previous training in biology at school or elsewhere will not be essential for anyone wishing to take the course.

The standard will be equivalent to that required for an Introductory Course.

Human Geography

First Year

The meaning and content of environment, race, culture. Views as to connections between them. The changing nature of the relations between man and his geographical surroundings. Space relationships past and present. Climate and Human Affairs. The problem of how cultures spread. Description and analysis of the economic and social life of communities at diverse levels of cultural achievement and in relation to their geographical environments, and an outline of the rise and spread of the fundamental arts and crafts of civilisation.

Social Philosophy

First Year

Various approaches to the study of 'Society' and its problems. The problem of values. Analysis of commonly used conceptions, e.g., Community, State, Social 'evolution' and 'progress.' Significance of institutions. The individual person and the Social whole; problems of authority, order and freedom as illustrated in Family, Industry and State. Social Philosophy in its wider setting.

ANTHROPOLOGY

One Year Course (to be taken in the first year)

(a) *Living Organisms and their Environment*

Human origins and differentiation. Zoological position of man; outline of primate and human evolution; classification and distribution of man; biological basis of primate and human society.

Morphological and physiological characters of anthropological interest. Elements of genetics. Study of

physique. Differential growth into body proportions, physique and body composition. Influence of heredity and nutrition on growth. Comparative anatomy and physiology of main human stocks.

Twelve weeks, each of three hours formal teaching and a practical period (one hour).

(b) *Prehistory and General Ethnology*

Introductory : The concept of human races and the limitations of classifications of man on the basis of race. The geographical background and setting of early man ; the distribution of physical types and of human industries. Evidences regarding the antiquity of man and his industries in America.

Climatic and related changes following the close of Pleistocene time. The mesolithic age in Europe and the emergence of neolithic cultures in the developing desert zone of Afrasia. The significance of the neolithic impulse in relation to possible migrations of peoples leading to a consideration of the racial composition of the major regional groupings of living mankind.

From the Age of Stone to the Age of Metal. The earliest civilisations : Ancient Egypt, the Fertile Crescent, Pre-Vedic India, China, the Aegean region.

An outline of Europe in later prehistoric times.

(c) *Comparative Religion*

Primitive Religion. The rise of higher religions.

(b) and (c) ten weeks, each of three hours formal eaching.

Examination

Two papers and a practical examination.

Two Years Course

Second Year

The comparative study of human institutions. Methods of analysis of human society.

The background of culture. Social inheritance, as a human phenomenon. Meaning of civilisation and culture.

How societies function. Ideal and real patterns of behaviour. Institutions and associations. Status and role. Class and caste divisions. The social significance of race.

The basic human institutions, the family. Types of family organisation. Kin groups and clans. Marriage and the family.

Law and order. System of social control.

Types of societies.

Third Year

The study of a specific group of societies :

- (a) Caribbean societies as examples of heterogeneity.
- (b) The Minority Group. The Negro in the U.S.A.
- (c) Brazilian culture, a type of amalgamation.
Problems of large scale complex societies.

Final Examination :

Three papers : Principles of Social Structure (i)
Principles of Social Structure (ii)
Specific Societies.

Books recommended

Students will be required to do specific reading in relation to the various aspects of the courses. In addition they will be expected to be familiar with the sections of the following standard works which are relevant to each year's work :

- R. Lowie, *Primitive Society*.
- M. J. Herskovits, *Man and his works*.
- A. L. Kroeber and T. T. Waterman, *Source Book in Anthropology*.
- A. Goldenweiser, *Anthropology*.
- F. Boas, *General Anthropology*.
- R. Firth, *Human Types*.
- Chapple and Coon, *Principles of Anthropology*.
- G. F. Moore, *History of Religions*.

MUSIC

General Studies Course

One Year Course

Harmonization of melodies and unfigured basses in not more than four parts.

Counterpoint in two parts.

History of Music.

Form in Music.

Two Years Course

Second Year

More advanced harmony in not more than four parts.

Counterpoint in not more than three parts.

Acoustics.

Special subject: History of Music, 1685-1828 (with special references as for B.Mus., Second Year).

Third Year

Advanced harmony in not more than four parts.

Counterpoint in not more than four parts.

Double counterpoint at the octave or fifteenth.

Selected works for detailed study (as for B.Mus.

Third Year).

Special subject: The Pianoforte Sonatas of Beethoven.

Courses for the Degree of B. Mus.

First Year

Harmony in not more than four parts.

Counterpoint in not more than three parts.

History of Music.

Form in Music.

Acoustics.

Selected works for detailed study: Suite in B minor (No. 2), *Bach*; Haydn Variations, *Brahms*; "The Hymn of Jesus," *Holst*.

Second Year

Harmony and Counterpoint in not more than four parts.

Special subject : History of Music 1685-1828, with special reference to Cantata No. 4, "Christ lag in Todesbanden," *Bach* ; Quartet in C major, Op. 33, No. 3, *Haydn* ; "Don Giovanni," *Mozart* ; Pianoforte Sonata in E flat, Op. 7, *Beethoven*.

Third Year

Harmony and Counterpoint in not more than five parts.

Canon and Fugue.

Orchestration.

Special period : History of Music since 1880.

Selected works for detailed study : "God's Time is the Best" (Actus Tragicus), *Bach* ; Clarinet Quintet, *Brahms* ; La Mer, *Debussy*.

At the beginning of the third year each candidate must submit to the Head of the Department proposals for the original musical exercise which he is required to offer. This exercise, which shall be the unaided work of the candidate, must consist of *either* (i) a work for chamber combination of not fewer than four instruments *or* (ii) a work for small orchestra *or* (iii) a work for small orchestra and voices which should take at least 20 minutes to perform. The manuscript must be submitted not later than 1st May in the year in which the candidate is taking the Final Examination ; if the candidate is successful the exercise will be retained by the University.

FINE ART

One Year Course

The course is planned as an introduction to the study of Fine Art.

Two hours of formal lectures and one hour of approved study or demonstration each week.

(a) General Principles—the Nature of the Plastic Arts (Form, Expression and Content, etc.), Primitive, Classical and Baroque.

- (b) Main trends in European Art, 15th-19th centuries.
- (c) Contemporary Art in France and Britain.

After a brief statement and study of general principles of art criticism attention will be paid chiefly to the development of the main artistic styles of European Art, selected artists being treated in greater detail at intervals throughout the course. The work of the class will include study of works of art in the City Art Gallery, Temple Newsam House and other local collections, and study of prescribed books.

Examinations

The examination will consist of one written paper and one oral examination as follows:

One written paper.

An oral examination in which candidates will be required to examine and discuss selected original works.

Books recommended

Heinrich Wölfflin: *Principles of Art History*.

Upjohn, Wingert and Mahler: *History of World Art*.

Helen Gardener: *Art through the Ages*.

N. Pevsner: *An Outline of European Architecture*.

R. G. Collingwood: *Principles of Art*.

Two Years Course

Three lectures and one practical session each week.

Second Year

- (a) Methods of Graphic Art and a critical study of selected European Drawings.
- (b) Artistic Theories in European Art, 15th to 20th centuries.
- (c) 19th century Art in France and England.

Third Year

- (a) Methods of Painting and Sculpture and a study of their historical development.
- (b) 17th century Art in Northern Europe
or Rococo and Georgian Art.

Final Examination Three papers.

Artistic Theory and Technical Methods (1 paper).

Special Periods in the History of Art (2 papers).

Students will be required to do specific reading and Art Gallery study in relation to the various aspects of the course.

Books recommended.

- A. F. Blunt, *Artistic Theory in Italy, 1450-1600*.
ed. Goldwater and Treves *Artists on Art*.
N. Pevsner, *Academies of Art*.
Bernard Berenson—*Italian Painters of the Renaissance*.
Otto Benesch, *The Art of the Renaissance in Northern Europe*.
Arnold Hauser, *The Social History of Art*.
Joshua Reynolds, *Discourses*.
Eugene Delacroix, *Journal*.
Kenneth Clark, *Gothic Revival*.
J. Rewald, *History of Impressionism*.

EUROPEAN CIVILISATION

General Studies Course.

One Year Course

Students beginning a one year course in European Civilisation in 1952 will be required to take Phase III in session 1952-53.

Two Years Course

Students beginning a two years course in European Civilisation in 1952 will be required to take Phase III in session 1952-53 and Phase IV in the session 1953-54.

Phase III (1660-1789).

Three hours a week.

The course will approach the period through a study of certain texts, most of them of intrinsic literary interest and merit.

The following are the texts suggested. The student will be required to study nine texts in all; of these *six* are prescribed texts; *three* are to be chosen by the student from those not specifically prescribed. The student is recommended to consult certain other works of a general character.

Texts.

The following texts are prescribed for study:

Locke: *Essay concerning Human Understanding*
(Everyman).

Dryden: *Religio Laici*; Pope: *The Rape of the Lock*; Dyer:
The Fleece, Book III; Goldsmith: *The Deserted Village*.

Swift : *Gulliver's Travels*, Book IV.
 Voltaire : *Candide*.
 Molière : *Le Misanthrope*.
 Goethe : *Sorrows of Werther*.

Three out of the following must be chosen for study :

Berkeley : either *The Principles of Human Knowledge* or *Three Dialogues*.
 Boileau : *Art Poétique*.
 Burke : *On Conciliation with America* (Everyman, No. 340).
 Defoe : *A Tour through England and Wales* (Everyman, Vol. II).
 Diderot : *Le Rêve de d'Alembert*.
 Fielding : *Joseph Andrews*.
 Fontenelle : *Entretiens sur la Pluralité des Mondes*.
 Benjamin Franklin : *Autobiography* (World's Classics).
 Halifax : *The Character of a Trimmer* ; Defoe : *The Shortest Way with Dissenters* ; Swift : *A Modest Proposal* ; (contained in *A Miscellany of Tracts and Pamphlets*, World's Classics, No. 304).
 Johnson : *A Journey to the Western Islands of Scotland*.
 Lock, Hume, Rousseau : *The Social Contract* (World's Classics).
 Montesquieu : *Lettres Persanes*.
 Prevost : *Manon Lescaut*.
 Adam Smith : *The Wealth of Nations*, Book I, but excluding the last chapter (Everyman).
 Horace Walpole : *Selected letters* (Everyman).
 John Wesley : *Journal* (Everyman).
 Arthur Young : *Travels in France*, 1787-1789.

Students are recommended to consult the following books :

Bruford : *Germany in the 18th Century*.
 Butterfield : *The Origins of Modern Science*.
 Halévy : *History of the English People in the Nineteenth Century*, Vol. I.
 Leslie Stephen : *English Literature and Society in the Eighteenth Century*.
 Basil Willey : *The Eighteenth Century Background*.

Syllabus

The historical background of the period will be indicated as follows :

The Political and Cultural Domination of France.
 Monarchy and society. Economic ideas and policy.

The Eighteenth Century. (a) Government, (b) Economic and colonial policy, (c) the European system, (d) the American Revolution and the origins of the French Revolution. Religious trends during the period.

In Philosophy the chief topics will be the development of English empiricism after Locke ; the significance of the controversies occasioned by rationalism and Deism ; and, in political philosophy, the notion of social contract, and the reaction to political rationalism represented by Burke.

In Art the characteristics of High Baroque, later Rococo development, and Georgian art will be discussed. The growth of landscape painting in England, the social value of portraiture and the change of architecture. The beginnings of the Gothic revival.

There will be lectures on music, dealing mainly with the influence of Italian opera, the development of oratorio and the rise of classical music in Germany.

Phase IV (1789-1851) (to be given in 1953-54).

The course will take a form similar to that outlined above in the syllabus for Phase III and will include the study of texts.

PSYCHOLOGY

General Studies Course.

One Year Course

G.1 General Psychology I	1 hour
S.1 Social Psychology I	1 hour
M.1 Psychometrics I	1 hour
P.1 Introductory Practical Course	1 hour

Examination : 2 papers.

Laboratory Notebooks will be taken into consideration.

Two Years Course

Second Year

1. *Historical Development of Psychology* (to end of 19th century). 1 hour

Philosophical background. Evolution and its consequences. The rise and development of physiological,

experimental and animal psychology. Early clinical work. Collection and systematization of psychological knowledge.

2. *Biological Psychology.* 1 hour

Characteristics of the organism. Elementary genetics. Aspects of evolution. Animal behaviour. The nervous system. Psychophysiological relations.

3. *Social Psychology II.* 1 hour

Social development of the individual. Principles of social adjustment. Behaviour of social groups. Study of publics and crowds. Abnormal social situations. Methods in the study of group structure.

4. *Short Practical Course.* Normally in summer term.

Observation of tests, case-conferences and therapy in child guidance clinics, to be arranged as convenient.

Third Year

1. *Modern Psychological Developments.* 1 hour

Rise of analytical approaches in Psychology. Mental measurement and factorial method. Growth of dynamic views. Developments in Cognitive Psychology. Relations with Logic, Ethics and Philosophy. Movement towards an integrated Psychology.

2. *Social Psychology III.* 1 hour

Study of social attitudes. Public opinion. Propaganda and advertising. Social behaviour in industry. Leadership and morale. National and racial attitudes. Study of group structure.

3. *General Applications of Psychology.* 1 hour

An introduction to the principal practical applications of Psychology to education, industry, social problems, clinical treatment of maladjustment, and vocational guidance and selection.

4. *Group experiments and fieldwork.* 3 hours

Examination

- Three papers : (i) Biological and General Psychology.
 (ii) Historical and Modern Theories.
 (iii) Social and Applied Psychology.

Practical Notebooks to be submitted.

An Oral Examination may be required.

MATHEMATICS

One Year Courses

Mathematics Introductory.

Statistics Introductory.

(These courses may be offered as independent one-year subjects for the degree in General Studies. There are, however, certain mathematical prerequisites for the Statistics course (see below).)

Two Years Courses

Candidates taking a two years course in Mathematics may take courses in *either* Group A *or* Group B, subject to the condition that General courses in Group B may not be offered if Statistics Introductory has already been taken as an introductory subject.

Group A (Pure Mathematics with Mechanics.)

Mathematics General 1a.

Mathematics General 2a.

Mathematics General 3a. (This may be taken by students who have been exempted from Mathematics Introductory, and have taken courses 1a and 2a in their first two years of study.)

Group B (Mathematics with Statistics.)

Mathematics General 1b.

Mathematics General 2b.

One Year Courses

Mathematics Introductory. Mondays, Tuesdays, Wednesdays and Fridays at 9 a.m.

Algebra, Calculus, Geometry, Statics and Dynamics.

Statistics Introductory. Tuesdays, Wednesdays and Fridays at 9 a.m.

Elementary treatment of statistical data. Introduction to problems of sampling.

To be accepted for Statistics Introductory, students should normally either have passed Mathematics Introductory or have been granted exemption therefrom; or have reached a sufficiently high standard in Mathematics at the Advanced Level in the examination for the General Certificate of Education, or in some equivalent examination.

(Attention is also drawn to the possibility of commencing the study of Statistics under the Mathematics Group B scheme. See General 1b, below.)

Examinations

Mathematics Introductory : 2 papers.

Statistics Introductory : 2 papers.

Two Years Courses

(Second and Third Years)

A Mathematics General 1a (Second Year)

Pure Mathematics. Mondays, Wednesdays and Fridays at 12 noon.

Algebra, Plane Geometry, Calculus.

Applied Mathematics. Tuesdays and Thursdays at 12 noon.

Statics, Dynamics, Hydrostatics.

Mathematics General 2a (Third Year)

Pure Mathematics. Mondays, Wednesdays and Fridays at 10 a.m.

Calculus (partial differentiation, differential equations, multiple integrals); Fourier Series; Analytical Geometry of Three Dimensions; Spherical Trigonometry; Computation.

Applied Mathematics. Mondays, Wednesdays and Fridays at 12 noon.

Vectors, Advanced Statics, Particle Dynamics, Rigid Dynamics in two dimensions, Lagrange's Equations.

Mathematics General 3a

This course is designed for students who, having been exempted from Mathematics Introductory, take General Courses 1a and 2a in their first two years of study.

Pure Mathematics. 2 hours a week.

Some or all of: Elementary matrix theory; transformation of multiple integrals; line integrals; Green's and Stokes' theorems; Legendre polynomials; Bessel coefficients; Sturm-Liouville systems of differential equations; elements of the theory of functions of a complex variable.

Applied Mathematics. 2 hours a week.

The course to consist in any one year of

- (a) The theory of vibrations; hydrodynamics,
- or (b) The theory of vibrations; Cartesian tensor analysis and elasticity.
- or (c) General dynamics; statistical mechanics.

Final Examination

For students completing their course at General 2a stage:
3 papers.

For students completing their course at General 3a stage:
4 papers.

B Mathematics General 1b (Second Year)

Pure Mathematics. Mondays, Wednesdays and Fridays at 12 noon.

Syllabus as for Pure Mathematics of General 1a.

Statistics. Tuesdays and Thursdays at 12 noon.

Elementary treatment of statistical data. Introduction to problems of sampling.

Mathematics General 2b

Pure Mathematics. Wednesdays and Fridays at 10 a.m.

Syllabus as for Pure Mathematics of General 2a, but excluding computation.

Statistics. Tuesdays and Thursdays at 10 a.m.; and at two other hours to be arranged.

Generalised frequency distributions; analysis of variation; sampling theory of Gaussian distribution; interpretation of experimental data and arrangement of field trials; merits of alternative sampling schemes; correlation; statistical computations.

Final Examination

For students completing Group B: 3 papers, viz., one in Pure Mathematics and two in Statistics, one of the latter being a Computation paper.

Special Studies Courses

Lectures are given, at hours to be arranged, on the main branches of both Pure and Applied Mathematics, including the history of the subject. In addition each student may select *one* branch for more advanced study, and attend special lectures on it during the later part of the course.

EDUCATION

(See also pages 331 to 334)

The courses of study at present organised by the Department of Education are:

- I *A Four Year Course* of which the first three years are mainly occupied with academic study for a degree and the fourth year is devoted wholly to professional training (see below).
- II *A One Year Course* for the Graduate Certificate in Education. This course is open to graduates of the University of Leeds and of other approved Universities.
- III *Post-Graduate Courses* for higher degrees in Education.

I Four Year Course

The Four Year Course has been abolished from the beginning of the session 1951-52 and no further admissions will be made under this system. Students who were admitted to the Four Year Course in 1950 will continue as Four Year Students and in due course, if they fulfil the examination requirements, will enter on the One Year Course for the Graduate Certificate in Education. (See above.)

If a recognised Four Year Student fails in his final degree examination, the Ministry of Education may recognise him for the year of professional training on the special recommendation of the University Authorities. If such a candidate completes the course of professional training and passes the necessary examinations he may be recommended by the Joint Examining Committee to the Institute of Education for Qualified Teacher Status. (See Ordinance XXVIII, Calendar 1952-53, page 60.)

II One Year Course

The syllabus for the One Year Course is given in full under Diplomas and Certificates in Arts (see above).

Candidates who are accepted for the One Year Course are eligible to apply for financial assistance under the Ministry of Education regulations for the Training of Teachers. Further information about these grants may be obtained from the Head of the Education Department.

Extract from General Conditions for all Recognised Students

1. Candidates, before being accepted, are required by the Regulations of the Ministry of Education to be examined by a Medical Officer approved by the Ministry, and can only be admitted if reported as without physical defect or organic disease, strong and in good health and capable of entering on their course without undue strain.

2. Candidates must be British subjects ordinarily resident in the United Kingdom unless this condition is specially waived by the Ministry of Education.

3. Candidates will be required to furnish certificates of good character.

4. Candidates on admission will be required to sign a Declaration to the effect that they intend to adopt and follow the profession of teacher in an approved school and acknowledge that in entering an Education Department they take advantage of the Parliamentary Grants by which it is aided in order to qualify themselves for the profession of teacher and for no other purpose.

III. Post-graduate Courses for higher degrees in Education Master of Education (M.Ed.)

The ordinance and regulations for this degree are set out on pages 321-323. Candidates wishing to proceed to the degree should write in the first instance to the Head of the Department of Education.

FACULTY OF ECONOMICS AND COMMERCE

The Faculty of Economics and Commerce offers instruction of the following kinds:—

1. Courses of one or three years in Economics and in Industrial Relations leading (in association with courses in other subjects) to the Degree of B.A. or B.Sc. in General Studies.

2. Courses leading to the Degree of B.A. in Economics for those students who, at the conclusion of the first year of their studies in the Faculty of Arts, desire and are considered competent to specialise on Economic subjects.

3. Courses in Economics together with courses in Accountancy or in an approved technological subject leading to the Degree of Bachelor of Commerce. In these courses, Economics is studied in close relation with the other main subject concerned, so that the student may learn to apply a general knowledge of the economic aspect of society and the principles of economic analysis and policy to the practical problems of accountancy or of some industry.

4. Certain courses of lectures designed to suit the needs of degree and diploma students in other Faculties.

5. Research facilities for post-graduate students in the fields of Economics and Commerce.

Degree of B.A. in General Studies

Economics and Industrial Relations are among the subjects which may be taken either for one or three years for the Degree of B.A. in General Studies.

Prescribed Courses— Economics

One Year Course

Two hours lectures a week on General Economics, and one hour a week tutorial.

Students are required to write essays for their tutorial classes about once every three weeks during term.

Supplementary lectures (on which no examinations are set) totalling one hour a week altogether, are given as

introductions to Economic History and to systematic Economic Theory for students who intend to take Economics for more than one year.

Examination : 2 papers.

Two Years Course (*Economics II and III*)

In the second and third years, lecture courses and tutorial classes are provided to prepare students for the following examinations :

1. Economic Theory, Paper I.
2. Economic Theory, Paper II.
3. Economic Organisation *or* Economic History.

Attendance at tutorials fortnightly during term will be required, and students will write essays fortnightly or monthly.

Lectures : Three hours a week.

Industrial Relations

One Year Course

Industrial Relations I

Three hours lectures a week.

History of Industrial Relations, with special reference to British developments since the beginning of the 19th century : one hour.

General Economics : two hours.

Examination : Two papers : History of Industrial Relations : General Economics.

Two Years Course

Industrial Relations II

1. Industrial Relations at the workplace, including labour management, selection and training of workpeople, time and movement studies, methods of wage payment, joint consultation, industrial welfare and profit-sharing.

2. Collective relations, including a study of the structure and problems of trade unions and employers' organisations, collective bargaining, causes of industrial disputes and methods of conciliation and arbitration.

3. Principles and methods of industrial psychology.

Industrial Relations III

Three hours lectures a week.

1. The study at a more advanced level of problems treated in the Second Year courses.

2. Economic aspects of industrial relations.

3. State participation in Industrial Relations, including the Factory Acts, State regulation of wages and State intervention for the settlement of industrial disputes.

Final Examination : Three papers of 3 hours each.

NOTE.—Students are not permitted to take three year courses in *both* Economics and Industrial Relations for the Degree of B.A. in General Studies, but those taking a three year course in Industrial Relations will normally be advised to take also a one year course in Economics.

Courses for the Degree of B.Sc. in General Studies

Economics I and Industrial Relations I may be taken as Introductory Courses for this degree.

Economics II and III and Industrial Relations II and III may be taken as General Courses for it. Economics II *must*, however, be followed by Economics III and Economics III cannot be taken unless Economics II has already been taken. Industrial Relations II and III go together in the same way.

Degree of B.A. in Economics

There shall be two examinations as follows :—

I. Qualifying Examination.

This examination will be the same as that prescribed for the Degree of Bachelor of Arts in General Studies.

Candidates shall offer four subjects :—

(i) Economics.

(ii) Three other subjects approved for the Degree of B.A. in General Studies of which one must be Mathematics if the student wishes to offer Statistics in the Final examination.

II. Final Examination.

This will consist of :—

- | | |
|--|------------|
| 1. Economic Theory, Paper I. | (1 paper). |
| 2. Economic Organisation | { " }. |
| 3. Applied Economics | { " }. |
| 4. Statistics or History of Economic Thought | { " }. |
| 5. Economic Theory, Paper II. | { " }. |
| 6. Economic History | { " }. |
| 7. Essay. | |
| 8. One of the following :— | |
| (1) Advanced Monetary Economics | } 1 paper. |
| (2) Econometrics* | |
| (3) Economic History (special period or topic) | |
| (4) Distribution of Income with special reference to Labour and Industrial Relations | |

During the second and third years, candidates shall be required to attend approved courses of instruction in the Department.

Degree of Bachelor of Commerce

The course of study for the Degree of Bachelor of Commerce is one in which Economics is combined with one other main subject, which may be either Accountancy (with the essential accompaniment of Commercial Law) or Statistics, or Agricultural Economics or an approved technological subject, viz., Textile Industries, Printing, Engineering, Mining, or the Chemistry of Leather Manufacture. Candidates who fulfil the requirements for the Degree of B.Com. *with Accountancy as a principal subject*, can obtain exemption from the Intermediate Examination of the Accountancy professional bodies. They are, however, required to take the Final Examination of such bodies in order to obtain the full professional certificate. The Degree of B.Com. *with Textile Industries as a principal subject* is accepted by the Textile Institute as fulfilling the educational requirements for Associate-

* Option available only to students taking Statistics.

ship. For the purpose of providing a course for the Degree of B.Com. *with Printing as a principal subject*, the Printing Department of the Leeds College of Technology has been affiliated to the University, which will take full responsibility for the students taking the Course and examinations. Instruction in all the subjects except Printing Technology will be given in the University.

There shall be two examinations as follows :

Regulations

I. *Qualifying Examination.*

The Qualifying Examination will consist of four papers, namely :

1. General Economics.
2. For Accountancy, Agricultural Economics and Statistics students—Accountancy.
For Technology students—an approved technological subject.
3. For Accountancy students—Commercial Law.
For Agricultural Economics, Statistics and Technology students—Mathematics.
4. For Accountancy students—Mathematics *or* Geography *or* Modern History *or* Government and Administration.
For Agricultural Economics students—one other approved subject.
For Statistics students—a Natural Science *or* a Modern Language.
For Technology students—a Natural Science.

II. *Final Examination.*

The Final Examination will consist of :

1. Economic and Monetary Principles (1 paper).
2. Economic Organisation („).
3. Applied Economics („).
4. Essay
together with

For Accountancy Students

5. Accountancy and Commercial Law (3 papers).
 *6. Economic History or Economic Geography or Statistics or Government and Administration (1 paper).

For Agricultural Economics Students

5. Statistics (").
 6. Production and Distribution of Agricultural Income (").
and two out of the following
 7. Land Economics (").
 8. Rural Social Organisation (").
 9. Farm Management (").
 10. Agricultural Marketing (").

For Statistics Students

5. Mathematics and Statistics (3 papers).
 *6. Economic History or a Natural Science or a Modern Language (1 paper).

For Technology Students

5. An approved technological subject (3 papers).
 *6. Statistics (1 paper).

Ordinance

Ordinance III

1. The degree in Commerce shall be that of—

Bachelor of Commerce (B.Com.)

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.

* In some cases this paper may be taken at the end of the Second Year of the 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. The names of candidates who have passed the examination for the Degree of Bachelor of Commerce shall be published in four groups, namely, first-class Honours, second-class Honours Division I, second-class Honours Division II, and Pass, the names in each group being arranged in alphabetical order.

Degree of Master of Commerce (M.Com.)

19. The degree of Master of Commerce may be conferred, on payment of the proper fee, and subject to the conditions laid down in *Articles 20, 21, and 22* on :

Ordinance

- (a) Registered Bachelors of Commerce of the University who have graduated with Honours or with the special recommendation of the Board of Arts, registered Bachelors of Arts of the University who have graduated with Honours in Economics or Economic and Political Science, after not less than *one* year from the date of their graduation ;
- (b) Other registered graduates of the University and graduates of other approved Universities, after not less than *two* years from the date of their graduation.

20. Candidates who are not registered Bachelors of Commerce or Bachelors of Arts of the University with

Honours in Economics or in Economic and Political Science of the University 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 Faculty of Arts, to excuse specially qualified graduates of the University from this attendance.

21. Every candidate, with the exception provided for under *Article 22*, shall present a thesis, satisfactory to the Senate, on a subject approved by the Board of the Faculty of Arts, embodying the results of his independent study or original research within the field of Commerce.

22. 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 21*, to submit themselves for examination in a course or courses upon 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 Faculty of Arts.

Regulations

1. Candidates who are not registered graduates of the University must become registered as students of the University.

2. Candidates who are not registered Bachelors of Commerce of the University who have graduated with Honours or registered Bachelors of Arts of the University who have graduated with Honours in Economics or in Economic and Political Science shall be required :

- (a) to pursue a course of advanced study or research under the supervision of the Head of the Department of Economics and Commerce ;
- (b) to give evidence to the Senate at the end of the first year of their period of study that their work has been satisfactory.

3. Candidates may be required to submit themselves for examination (written, or oral, or both) in the subject of their thesis (or dissertation).

4. 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.

Lecture Courses

Economics

The lecture courses in Economics recommended for the Degree of B.A. in General Studies are :—

First Year : General Economics (Tuesday and Thursday at 10 a.m.)

Second and Third Years : Economic Theory (Tuesday and Thursday at 11 a.m.)*

Advanced Economic Theory*

Structure and Problems of Industry (Monday at 10 a.m.)*

Industrial Relations (Tuesday and Thursday at 10 a.m.)*

Economic History (Tuesday and Thursday at 3 p.m.)*

Examinations :

First year—2 papers.

Final examination—3 papers.

Industrial Relations

The courses in Industrial Relations prescribed for the General Degree are :—

One Year Course

Industrial Relations I

Lecture time : three hours a week.

Two Years Course

Industrial Relations II

Lecture time : three hours a week.

*These courses extend over one session only. Students will be advised as to how those appropriate to the examination papers they choose to take can be distributed between the two years.

Industrial Relations III

Lecture time : three hours a week.

For details of syllabus, see above.

The following courses of lectures will also normally be given :—

Introduction to Economic History.

Introduction to Mathematical Economics.

Economic Statistics.

International Economics.

Public Economics.

History of Economic Thought.

Accountancy (three courses).

Commercial Law (three courses).

There will also be courses and classes related to the Special Subjects for the Degree of B.A. with Special Studies in Economics, and special courses of lectures will be delivered by members of the staff of the Department on subjects related to their research work.

**DEGREE AND DIPLOMA COURSES IN
SOCIAL STUDIES.**

For students who are preparing to engage in social work, either voluntarily or in salaried positions, there is available in the Department of Social Studies a Degree course or a Diploma course.

The course for the Degree of B.A. with Special Studies (Social Studies) extends over three years and includes Social Science, Biology, Human Geography, Social Philosophy, Economics, Psychology, Social Legislation, History, and Social Medicine.

The course for the Diploma in Social Studies is a two years' course designed to meet the requirements of those students who are unable to devote three years to the Degree course.

Practical Social Work must be undertaken in both the Degree and the Diploma.

Full particulars of these Degree and Diploma courses are given in the prospectus of the Faculty of Arts.

THE FACULTY OF LAW

The primary objects of the Faculty of Law are to provide the training and courses necessary for obtaining a degree in law, and to enable articled clerks to fulfil the requirements of the Solicitors Acts, 1932 and 1936, in the matter of compulsory attendance at an approved law school. The training designed for these purposes may be usefully undertaken by those who are studying for the examinations of the Council of Legal Education, before admission to the Bar, and by those who, having completed their statutory year, require further tuition for the examinations of the Law Society.

The conditions under which a degree in Law is to be obtained are set out in the following Ordinance and Regulations. Normally, three years is the period of study for the degree of LL.B.

ORDINANCE IV

Part I

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.)

Part II

Degree of Bachelor of Laws

(see also Regulations on page 435)

1. The degree of Bachelor of Laws shall be conferred either as an ordinary degree or as a degree with Honours.
2. 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 this 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.

3. 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.

4. The prescribed examinations shall ordinarily be held in June of each year.

5. All candidates shall be required, before presenting themselves for a prescribed examination, to furnish certificates testifying that they have regularly attended the courses of study approved for such examination. Some modification of the amount of attendance required may, in exceptional cases, be made by the Senate.

6. 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 an 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 a 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.

7. Candidates who have passed the examination for the degree of Bachelor of Laws with Honours may be awarded :—

- (i) the degree of Bachelor of Laws with First Class Honours ; *or*
- (ii) the degree of Bachelor of Laws with Second Class Honours, Division I ; *or*
- (iii) the degree of Bachelor of Laws with Second Class Honours, Division II ; *or*
- (iv) the degree of Bachelor of Laws with Third Class Honours ;

each class being arranged in alphabetical order.

8. 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.

Part III

Degree of Master of Laws

1. 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.

2. 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 Faculty of Arts.

3. All candidates may be called upon to present themselves for an examination—written, oral, or both—in the theme of their dissertation.

4. 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.

5. 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 LL.M., without taking the LL.B. degree, after not less than two years of such advanced study or research.

6. Such candidates shall be required to fulfil the following conditions :—

- (a) To be registered as students of the University.
- (b) To pursue a course of advanced study or research extending over not less than two years under the supervision of the Head of the Department.
- (c) To attend a course or courses of lectures at the University for at least one year, if required by the Professor of Law.
- (d) To pay the fee (including Registration and Library fee) prescribed for such candidates.

7. 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.

Regulations 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.

Part IV

Degree of Doctor of Philosophy

(see also Regulations on page 442)

Ordinance

1. The Degree of Doctor of Philosophy may be conferred on payment of the appropriate fee and subject to the conditions contained in Part IV, Articles 2 and 3 :—

- (a) On persons who are registered graduates of the University of Leeds or graduates of an approved University.
- (b) On the holder of a Diploma awarded by an approved institution of university rank not empowered to confer degrees, provided that the course of study in the subject for which the Diploma has been awarded has extended over not less than three years of full-time study.
- (c) In exceptional cases on the holder of a Diploma of the University of Leeds, provided that the Senate is satisfied regarding the course of study towards such Diploma and the standard attained by the candidate in the examination for the Diploma.

2. Except as provided in Part IV, Article 3, 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.

3. 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 person admitted under Part IV, Article 1 (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 period.

NOTE.—Candidates wishing to avail themselves of the provisions of this Article should normally have previously obtained a Master's degree of this or of another approved University by the presentation of a thesis or dissertation. Only candidates with high qualifications who are strongly recommended by the Head of the Department concerned will be accepted under Part IV, Article 3.

Part V

Degree of Doctor of Laws

1. 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.

2. 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.

3. 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.

1. A candidate shall not be permitted to submit 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.

Regulations

2. 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 latest date for application and payment of fee is 1st February in any year.

REGULATIONS

Ordinary Degree of Bachelor of Laws

I. *Approved Courses.*

Every candidate, subject to concessions to graduates under Part II, Article 2 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 Land Law.
- (v) The Elements of the Law of Contract.
- (vi) The Elements of the Law of Torts.

(b) In his second and third years of study, courses on :

- (i) Common Law.
- (ii) Equity.
- (iii) Criminal Law.
- (iv) Legal History.
- (v) Jurisprudence.
- (vi) The Land Law.
- (vii) Private International Law.
- (viii) Evidence.

NOTE.—The Regulations heretofore in force shall govern the prescribed courses for candidates due to take their final LL.B. examination (whether with or without Honours) in the Summer Term of 1953.

2. *Prescribed Examinations.*

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 one paper
- (ii) In the English Legal System .. one paper
- (iii) In Roman Law one paper
- (iv) In the Elements of the Land Law .. one paper
- (v) In the Elements of the Law of Contract one paper
- (vi) In the Elements of the Law of Torts .. one paper

(b) After the completion of his third year of study he shall be examined as follows :

- (i) In Common Law one paper
- (ii) In Equity one paper
- (iii) In Criminal Law one paper
- (iv) In Legal History one paper
- (v) In Jurisprudence one paper
- (vi) In the Land Law one paper
- (vii) In Private International Law .. one paper

NOTE.—The Regulations heretofore in force shall govern the examination prescribed for students due to take their Final LL.B. examination in the Summer Term of 1953.

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.

After the *second year* of study, students will be required to take a *departmental* examination in the Law of Evidence, Equity, Legal History, the Land Law and Criminal Law.

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 Senate they will not be permitted to present themselves for examination separately in any one of the papers of the Final Examination.

Degree of Bachelor of Laws with Honours

1. *Approved Courses.*

In addition to the approved courses for the ordinary degree, a candidate for Honours will *also* be required to attend a course in Public International Law, and in two Special Subjects (the one in Common Law, the other in Equity), to be prescribed from time to time.

2. *Prescribed Examinations.*

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 (one paper) and in the two Special Subjects above referred to (one paper).

Curriculum and Recommended Books for the ordinary LL.B. degree and the LL.B. degree with Honours

Before the course candidates are recommended to read James, *An Introduction to English Law* ; Glanville Williams, *Learning the Law* ; Lee, *An Historical Conspectus of Roman Law* ; Maitland, *Constitutional History of England*.

A. First Year LL.B. Course

I. *Constitutional Law.*

This course will include a general survey of modern constitutional and administrative law and of English constitutional history. It will also include a brief comparative study of the constitutions of the principal member states of the British Commonwealth, and a study of the legal structure of the Commonwealth as a whole.

Text-books: Wade and Phillips, *Constitutional Law*; Keir and Lawson, *Cases on Constitutional Law*; Dicey, *The Law of the Constitution*. Reference should be made to Ilbert, *Parliament*; Jennings, *The Law and the Constitution*; C. K. Allen, *Law and Orders*; Robson, *Justice and Administrative Law*.

II. *The English Legal System.*

This course will include a general survey of modern English legal institutions, their origin and development. It will also include a general outline of English legal procedure and a brief study of the principal Sources of English Law.

Text-books: Radcliffe and Cross, *The English Legal System*; Potter, *Historical Introduction to English Law*; Hanbury, *English Courts of Law*. Reference should be made to Holdsworth, *History of English Law*. Vol. I.

III. *Roman Law.*

This course will include a study of the sources of Roman Law, and of the general principles of Roman Private Law and Procedure. It will also aim at preparing candidates for examination in the following texts:—

- (i) Gaius, *Institutes*: Book I (Tit. 56-64; 97-123; 159-164); Book 4 (Tit. 1-44).
- (ii) Justinian, *Institutes*: Book I (Tit. 1, 2); Book 2 (Tit. 1-9); Book 3 (Tit. 13-29); Book 4 (Tit. 1-5, 7-9, 13, 15).

Text-books: Poste or de Zulueta, *Gaius' Institutes*; Moyle, *Justinians' Institutes*; Leage, *Roman Private Law* or Lee, *Elements of Roman Law*.

Reference should be made to Buckland, *Text-book of Roman Law*, *Manual of Roman Private Law*; Jolowicz, *Historical Introduction to Roman Law*; Sohm, *Institutes of Roman Law*; Buckland and McNair, *Roman Law and Common Law*.

IV. *The Elements of the Land Law.*

An introductory study of the modern land law.

Text-books: Hargreaves, *Introduction to the Land Law*; Megarry, *Manual of the Law of Real Property*. or Radcliffe, *Real Property*. Reference should be made to Cheshire, *Modern Real Property*.

V. *The Elements of the Law of Contract.*

An introductory study of the law of contract.

Text-book: Cheshire and Fifoot, *Law of Contract*. Reference should be made to Anson, *Law of Contract*, Salmond and Williams, *Law of Contracts*.

VI. *The Elements of the Law of Torts.*

An introductory study of the law of torts.

Text-book: Winfield, *Law of Tort*. Reference should be made to Salmond, *Law of Torts*.

B. Final LL.B. Course

I. *Common Law.*

This course will include an advanced study of the Law of Contract and of the Law of Torts.

Text-books; Cheshire and Fifoot, *Law of Contract*; Winfield, *Law of Tort*. Reference should be made to Anson, *Law of Contract*; Salmond and Williams, *Law of Contracts*; Pollock on *Contract*; Salmond, *The Law of Torts*; Pollock on *Torts*.

II. *Equity.*

This course will include a study of the general principles of Equity and of the Law of Trusts.

Text-books: Snell, *Equity*; Keeton, *Trusts*. Reference should be made to Maitland, *Equity*; Hanbury, *Modern Equity*; Underhill, *Trusts*.

III. *Criminal Law.*

This course will include a general study of Criminal Law and Procedure.

Text-books: Cross and Jones, *An Introduction to Criminal Law*; Kenny, *Outlines of Criminal Law*. Reference should be made to Harris, *Criminal Law*; Russell on *Crimes*.

IV. *Legal History.*

This course will include a general study of the historical development of English Law.

Text-books : Plucknett, *A Concise History of the Common Law* ; Holdsworth, *Sources and Literature of English Law*, *An Historical Introduction to the Land Law*. Reference should be made to Holdsworth, *History of English Law*, *Some Makers of English Law* ; Maitland, *The Forms of Action at Common Law* ; Stephen, *History of Criminal Law* ; Pollock and Maitland, *History of English Law* ; Fifoot, *English Law and its Background*.

V. *Jurisprudence.*

Text-book : Paton, *Jurisprudence*. Reference should be made to Salmond, *Jurisprudence* ; Friedmann, *Legal Theory* ; Stone, *Province and Function of Law* ; Jones, *Introduction to the Theory of Law* ; C. K. Allen, *Law in the Making* ; *Modern Theories of Law* (ed. Jennings).

VI. *The Land Law.*

An advanced study of the Land Law.

Text-book : Cheshire, *Modern Real Property*.

VII. *Private International Law.*

A study of the general principles of Private International Law.

Text-book : Cheshire, *Private International Law* or Wolff, *Private International Law*. Reference should be made to Dicey, *Conflict of Laws* ; Morris, *Cases on Private International Law*.

VIII. *Evidence.*

A study of the general principles of the law of Evidence.

Text-book : Wills, *Evidence*. Reference should be made to Cockle, *Cases on the Law of Evidence*.

IX. *Public International Law* (Honours students only).

This course will include a study of modern Public International Law (with particular reference to the law and custom of Peace), its sources and development, and a study of modern international institutions.

Text-books : Starke, *Introduction to International Law*, or Brierly, *Law of Nations*, or Schwarzenberger, *Manual of Inter-*

national Law. Reference should be made to Oppenheim, *International Law* (Vol. I) ; Schwarzenberger, *International Law* (Vol. I) ; Greene, *International Law through the Cases* ; Kelsen, *Law of the United Nations* ; Everyman's *United Nations*.

X. *Special Subjects in Common Law and Equity* (for Honours students only).

There will be two separate courses, each on a Special Subject, the one in Common Law, the other in Equity, to be prescribed from time to time.

Appropriate Text-books will be recommended.

C. Special Courses* for students intending to take the Law Society's Intermediate Examination

I. *Trust Accounts*.

The law and practice of trust accounting.

Text-books : Chandler's *Trust Accounts* (6th Edn., 1936) ; Ranking, Spicer and Pegler's *Executorship Law and Accounts* (18th Edn., 1951, by H. A. R. J. Wilson).

II. *Book-keeping*.

The general theory of book-keeping and its application to the books of Solicitors in accordance with the Solicitors Accounts Rules, 1945.

Text-books : Carter, *Book-keeping for Solicitors*, or Hughes-Onslow, *A Lawyer's Manual of Book-keeping and Accounts*.

Tutorial Classes

Tutorial classes (1 hour each week during term time) will be held for second and third year students.

Additional Courses

From time to time, seminars and lecture courses will be arranged in special subjects of interest to law students. There is a regular course in Forensic Medicine.

Tutors

Throughout his course every student will be under the personal supervision of a member of the Staff.

*A special charge of £2 2s. per course will be made for attendance at these courses.

Degree of Doctor of Philosophy

1. Before entering on the course of advanced study and research, candidates are required :—

- (a) To have attained the age of 21 years.
- (b) To submit to the Senate for its approval the course of advanced study and research proposed by them and to present evidence satisfactory to the Senate that they are qualified to undertake the proposed course.
- (c) To register as students of the University and to pay the prescribed fees for tuition.

2. On completing the course of advanced study and research candidates are required :—

- (a) To present a thesis on the subject of their advanced study and research, and to 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) To 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 to satisfy the examiners in the examination as well as in the thesis presented.

3. 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.

NOTE.—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.

4. A candidate is required during his course to 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.

5. A candidate will not be permitted to submit as his thesis one for which a degree has been conferred upon him 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 to the University 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.

6. 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.

7. 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 will be retained in the University Library.

NOTE.—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 relation of the degree of LL.B. to the Professional Examinations and the Period of Articles

(a) *Curriculum.*

The relation of the degree subjects to the examinations of the Law Society is as follows : the subjects taken for the

Intermediate LL.B. are all necessary for the intermediate examination of the Law Society with the exception of Roman Law. The subjects taken for the final examination for the degree provide what is necessary for the Compulsory Subjects of the Law Society Final Examination, with the exception of the procedure and practice of the various courts, and the law as to income tax and death duties. Those who take the degree with Honours will also have studied Conflict of Laws, which is one of the Optional Subjects for the Law Society Final Examination. The above comparison is necessarily general in its nature, but serves to indicate that under the present regulations for the Law Society Examinations it is possible to a very large extent for the curricula for the degree and the professional examinations to cover common ground. In this way unity of effort is brought into legal studies.

The relation of the degree courses to the examinations of the Council of Legal Education is as follows: The courses in the first year of study on Roman Law, Constitutional Law, History of the Courts, Contract, Tort, and the Law of Property will serve as an introduction to the subjects required for Part I of the Examination for Call to the Bar. Generally speaking, the courses for the second and third years of study cover what is required for Part II of the Examination.

(b) Exemptions and Remissions.

Consequent upon the common element in the curricula for the degree and professional examinations, a system of exemptions is in force by which students may be relieved of part of their professional examinations as the result of having taken a degree in the Faculty of Law of the University. Certain remissions in the period of articles for those about to become solicitors are also conceded. The remissions conceded in the period of articles are as follows:—

- i. Any person who, before entering into articles of clerkship, has passed the examination for the General Certificate of Education having obtained

passes on the same occasion in (a) English Language or English Literature or English; (b) Latin; and (c) one other subject, and having passed at least two subjects at the advanced level, may be admitted and enrolled as a solicitor after having served under articles for four and a half years. This remission in the period of articles is also granted upon the basis of examinations of equal standard conducted by other examining boards.

- ii. Any person who, before entering into articles of clerkship, has passed the intermediate examination for the degree of LL.B. at any University in England and Wales may be admitted and enrolled as a solicitor after having served under articles for four and a half years only.
- iii. Any person who, before entering into articles of clerkship, has passed both the examinations indicated in the two preceding paragraphs may be admitted and enrolled as a solicitor after having served under articles for four years only.
- iv. Any person who, before entering into articles of clerkship, has passed examinations conducted by the Joint Matriculation Board which qualify him to enter upon a degree course at a Northern University (Latin being one of the subjects in which he has passed), or has passed any examination approved by the Law Society and accepted by the said Board as qualifying him to enter upon such a degree course (Latin being one of the subjects in which he has passed), and has passed the intermediate LL.B. examination of such University, having attended the full curriculum prescribed, may be admitted and enrolled as a solicitor after having served for four years only.

NOTE.—The above regulations apply as from 1st January, 1937.

The exemption for those about to become solicitors concerns the Law Society's intermediate examination

other than the part relating to Trust Accounts and Book-keeping, and is as follows :—

Exemption from the legal portion of the Law Society's intermediate examination may be granted to persons upon whom the degree of LL.B. has been conferred after examination or as an aegrotat degree.

NOTE.—The above regulation applies to persons becoming bound by articles of clerkship on and after 1st January, 1937.

The exemptions for those about to become barristers are as follows : a student may apply to the Council of Legal Education for exemption from the whole or any section of Part I of the examination for Call to the Bar when he will receive a form indicating the standard required in the several sections before exemption will be granted.

NOTE.—Students claiming any exemption or remission under the regulations of the Law Society must verify their position by writing to the Secretary of the Law Society.

Lectures given for Degree Courses

These are so organised as to bring students to the University on two days each week during term time. Normally Intermediate students will attend on Tuesdays and on Fridays ; second year students on Mondays and on Thursdays ; third year students on Mondays and on Thursdays.

Tuition Fees

For the degree of LL.B. £16 11s. per session (including Union Fee).

Statutory Course for the Certificate under the Solicitors Acts, 1932 and 1936. £15 11s. for the Full Course if taken during three consecutive terms. (An additional fee calculated at the Separate Subjects rate will be charged if the course is spread over a longer period than three consecutive terms.)

Separate Subjects : for £4 per session.
each lecture hour per
week.

NOTE.—(Applicable to separate subjects only).

- i. When more than one lecture hour per week is attended in any *one class* the fee for each hour beyond the first will be £2 per session.
- ii. For two terms, three-quarters of the above amounts will be charged. For one term, half the above amounts will be charged.

Fees for the higher degrees can be ascertained by application to the University.

The Statutory Year

Section 32 of the Solicitors Act, 1932, provides that a person articled to a solicitor shall not be admitted to the Final Examination unless he satisfies the Law Society that he has, during a period of one year, complied with the requirements of the Society as to attendance at a course of legal education at a law school approved by the Society. The attendance may be before service under articles, or during such service.

Section 7 (1) of the Solicitors Act, 1936, provides that a person articled after 1st January, 1937, must (except with the consent in writing of the Law Society) commence the attendance at a course of legal education at a Law School not later than fifteen months after the execution of his articles.

The compulsory attendance is not required from one who has passed the Final Examination for the degree of LL.B.

Attendance must be during three or more academic terms, each of not less than five weeks' duration, amounting to at least 140 hours, in periods of not less than two hours per week.

It is hoped that statutory year students will be able to attend as many as possible of the lectures given at the Intermediate stage. These include lectures on Constitutional Law, the English Legal System, the Elements

of the Land Law, the Law of Contract, and the Law of Torts. Special courses in Book-keeping and Trust Accounts are also provided. The entire course provides a ten-hour week for some twenty-five weeks; it thus amply covers the required period of compulsory attendance.

A member of the staff of the Faculty, the Supervisor of statutory year students, is responsible for the general supervision of the work of these students.

A person attending a statutory course will be required, in pursuance of regulations made by the Law Society, to submit himself to terminal examinations for the purpose of satisfying the Society of his diligence and application during attendance. If a person fails to satisfy the Society, the Society may refuse to count, as part of the attendance, the whole or any part of the period in respect of which the examination has been held.

Railway Fares

The Yorkshire Board of Legal Studies will pay one-third of the fares of articled clerks residing out of Leeds and attending lectures at the University. In the case of persons entering into articles after they have commenced attendance such payment will be made retrospective to the commencement of their attendance.

ORDINANCE V

(A) DEGREES IN PURE SCIENCE

1. The degrees in Pure Science * shall be :

Ordinance

Bachelor of Science (B.Sc.)
 Master of Science (M.Sc.)
 Doctor of Philosophy (Ph.D.)
 Doctor of Science (D.Sc.)

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.

* Graduates in Pure Science may also proceed to the degree of Master of Education (M.Ed.)

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

- (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, or
- (iii) the degree of Bachelor of Science.
- (b) the names of successful candidates in each group shall be arranged in alphabetical order.
- (c) 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 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.

1. Candidates will not be admitted to courses 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. Regulations.

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 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 of study and performed the work of the class to the satisfaction of the Professor or Lecturer.

*N.B. The latest date of entry and payment of fees for B.Sc. degree examinations is 30th January.

5. Candidates for the degree of Bachelor of Science will be required to present themselves for the departmental examinations arranged in connection with any courses they may take.

6. The record of students at their departmental examinations may be taken into account in deciding the results of degree examinations.

7. Candidates may, with the consent of the Dean of the Faculty in the case of degrees in General Studies or of the Head of the Department in the case of Degrees in Special Studies, present subjects more in number and higher in grade than those required by the Ordinance. Such additional subjects need not be confined to those prescribed in the Regulations for the degree of Bachelor of Science.

8. Candidates presenting themselves for Degree examinations on two or more general courses in the same subject and failing to pass therein may on the recommendation of the examiners be deemed to have passed on a smaller number of general courses.

9. Subject to the provisions of Article 12 of the Ordinance, candidates for the degree of Bachelor of Science may be exempted by the Board of the Faculties of Science and Technology from the introductory courses and corresponding examinations in the subjects already passed in the Higher School Certificate examination, or in an equivalent examination, provided that they have passed the examination at a sufficiently high standard.

Applications for such exemptions should be made

(a) by candidates for the degree in Special Studies, to the Head of the Department directing those studies,

(b) by candidates for the degree in General Studies, to the Dean of the Faculty of Science.

DEGREE OF BACHELOR OF SCIENCE IN GENERAL STUDIES

Ordinance II. Except in so far as he may be exempted under the provisions 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 in a Higher School Certificate 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 five General Courses. The Examiners will also take account of the results obtained in examinations taken at the end of any previous year of study on General Courses in subjects in which the candidate has not pursued any further studies.

14. Candidates shall select their subjects from among those specified in the Regulations for the degree of Bachelor of Science in General Studies, provided:

(i) that each candidate shall include a course in Mathematics *or* in Physics *or* in Chemistry unless exempted from such a Course under Regulation 9 above;

(ii) that within the required minimum (see Articles 11 and 12)

(a) no candidate may include more than three approved one year courses in Faculties other than Science;

(b) not more than two of the courses in Faculties other than Science are introductory courses or of first year standard.

Regulations

10. Courses in subjects which may be taken for the degree of Bachelor of Science in General Studies shall be of two kinds :—

- (a) introductory courses each extending over one session ;
- (b) general courses each extending over one session.

11. The subjects in which courses are approved for the degree of Bachelor of Science in General Studies are as follows :

(a) Faculty of Science

Introductory Courses :

Mathematics
Statistics
Physics
Chemistry
Zoology
Botany
Geography
Geology
Anthropology

General Courses :

Mathematics
Statistics
Physics
Chemistry
Zoology
Botany
Geography
Geology
Bacteriology
Physiology
Biochemistry

(b) Faculty of Arts

Introductory Courses :

Greek
Latin
Hebrew
Icelandic
French
German
Italian
Russian
Spanish
Portuguese
History
European Civilisation

Philosophy
Arabic
Aramaic and Syriac
English
Phonetics
Music
Fine Art
History of Religion
Biblical Studies
Economics
Social Science
Industrial Relations
Psychology

General Courses :

*Greek	Spanish
*Latin	*Portuguese
Hebrew	*History
Arabic	Philosophy
English Literature	Music
English Language	History of Religion
and Medieval	Biblical Studies
English Literature	*Social Science
*Icelandic	Psychology
French	Fine Art
German	European
Italian	Civilisation
Russian	

(c) Faculty of Economics and Commerce

Introductory Courses :

Economics	Industrial Relations
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General Courses :

*Economics	*Industrial Relations
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(d) Faculty of Technology

Introductory Courses :

Engineering	Mining
Coal Gas and Fuel Industries	

General Courses :

Engineering	Mining
Coal Gas and Fuel Industries	
Agricultural Botany	
Agricultural Chemistry	

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 Senate, given on the recommendation of

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

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 will not be permitted to proceed to any General Course in a subject until he has passed the examination on, or been exempted from, the appropriate Introductory Course in that subject.

15. After taking one or more General Courses in a subject, a candidate will not normally be permitted to proceed to a more advanced General Course in that subject unless he has attained a satisfactory standard in such departmental examinations as may have been held on the preceding General Courses.

DEGREE OF BACHELOR OF SCIENCE IN SPECIAL STUDIES

Ordinance 15. A candidate for the degree of Bachelor of Science in Special Studies shall be required to attend an approved course of study extending over not less than three academic years in one of the Schools of Special Studies hereafter enumerated.

16. A candidate for the degree of Bachelor of Science in Special Studies may present himself for examination in any one of the following Schools of Special Studies, viz.

Mathematics	Biochemistry
Physics	Human and Com-
Chemistry	parative Anatomy
Zoology	Bacteriology
Botany	Pharmacology
Geology	Pharmacy
Physiology	

Students who entered upon courses before October, 1950, will normally proceed to degrees under sections of the Ordinance and Regulations which have been superseded by the above. Details of these sections may be found in the Calendar for the session 1951-52 and in earlier editions.

DEGREE AND DEPARTMENTAL EXAMINATIONS

I. *Degree Examinations :*

Regulations

- (a) 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.
- (b) 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 Science and Technology to defer his examination.

2. *Departmental Examinations :*

- (a) 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.
- (b) In courses extending over more than one session students may not commence 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.

3. *Conditions of entry :*

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 30th January, will be admitted to the examinations.

N.B.—The attention of students is drawn to the General Regulations for Students, Clause 12, respecting departmental examinations.

PRESCRIBED COURSES OF STUDY AND EXAMINATION FOR THE DEGREE IN GENERAL STUDIES

(For further details see under Courses in Science)

MATHEMATICS AND STATISTICS.

General Studies Courses

Mathematics Course (a) and Statistics may be offered as independent subjects for the degree in General Studies.

Mathematics Course (b), however, is composed of parts of Mathematics (a) and Statistics and may not be offered in conjunction with either of them.

MATHEMATICS COURSE (a) : Pure Mathematics with Mechanics.

Introductory Course : Mathematics Introductory.

General Courses : Mathematics General 1a.
Mathematics General 2a.
Mathematics General 3a.

STATISTICS.

Introductory Course : Statistics Introductory.
(For certain mathematical prerequisites for this course see page 34 below.)

General Course: Statistics General 1.

MATHEMATICS COURSE (b) : Mathematics with Statistics.

Introductory Course : Mathematics Introductory.

General Courses : Mathematics General 1b.
Mathematics General 2b.

PHYSICS.

General Studies Course

Introductory Course

IA or IB, with 3 hours laboratory.

General Courses

G1, G2, G3, each with 5 hours laboratory.

NOTE.—Each of the courses I, G1, G2, and G3 extends over one year, and normally the courses would be taken in successive years. In special cases, however, permission may be given for G2 and G3 to be taken in the same year.

(For further details, see under Physics, Lecture Courses, below.)

CHEMISTRY.

General Studies Course

Introductory Course : Chemistry Introductory.

General Courses : Chemistry G_i
Chemistry G_p
Chemistry G_o
Chemistry G₁
Chemistry G₂

Candidates for the degree in General Studies, having passed or obtained exemption from the Introductory Course in Chemistry, may take any *one*, or *all three* of the following courses :

Chemistry G_i (F₁)
Chemistry G_p (F₂)
Chemistry G_o (F₃)

Candidates who wish to take only *one* General course in Chemistry must take *one* of the above courses *or* Chemistry G₁.

The normal courses for a candidate taking only *two* General courses in Chemistry are Chemistry G₁ and G₂ but, in special cases, G₁ may be followed by G_o (instead of G₂) at the discretion of the Sub-Dean.

ZOOLOGY.

General Studies Course

Introductory Course : Zoology Introductory.

General Courses : Zoology G₁
Zoology G₂
Zoology G₃
Zoology G₄

Students wishing to take only one General Course in Zoology will take G₄ ; those wishing to take two General Courses will take G₁ and G₂. Suitably qualified students may, with the approval of the Head of the Department, take 3 General Courses in Zoology and will then take G₁, G₂ and G₃.

BOTANY.

General Studies Course

Introductory Course : Introductory Botany.

General Courses : Botany G_{1A}
Botany G_{1B}
Botany G_{2A}
Botany G_{2B}

PHYSIOLOGY :**General Studies Course**

No Introductory course in Physiology is offered.

General Courses :

Physiology G1A. This course extends over one session.

Physiology G1 and G2. This course extends over two sessions. Neither part of the course can be taken separately.

Before entering on these courses, candidates will be required to have passed, or to have been exempted from Chemistry, Physics and Zoology at Introductory standard.

Students wishing to take Physiology G1A or G1 will, in addition, be required to have undertaken or be undertaking, further courses in Organic and, probably, Physical Chemistry.

GEOLOGY.**General Studies Course**

*Introductory
Course :*

Introductory Geology

General Courses : Geology G1
Geology G2
Geology G3

GEOGRAPHY.**General Studies Course**

Introductory Course : Geography Introductory.

Only under very exceptional circumstances will students be exempted from this course.

General Courses : Geography G1A
Geography G2B
Geography G2C
Geography G2D

Normally students will take G1A in the Second Year, followed by G2B or G2C or G2D in the Third Year.

BACTERIOLOGY.**General Studies Course**

No Introductory Course in Bacteriology is offered.

General Courses : Bacteriology G1
Bacteriology G2

Candidates taking General Courses in Bacteriology must have included in their first year course (a) Botany or Zoology and (b) Chemistry.

BIOCHEMISTRY.

General Studies Course

General Courses : Biochemistry G1
Biochemistry G2A
Biochemistry G2B

**PRESCRIBED COURSES OF STUDY AND
EXAMINATION FOR THE DEGREE IN
SPECIAL STUDIES**

MATHEMATICS.

The course of study and subjects of examination shall include, in addition to the Special Studies courses in Mathematics :

- (i) the Introductory Course in Statistics ;
- (ii) one of the subjects, other than Mathematics, selected after consultation with the Head of the Department of Mathematics, from those approved under Regulation 11 for the degree of B.Sc. in General Studies, and taken up to the standard of the General Course.

PHYSICS :

Candidates are accepted for the Course in Special Studies, which extends over three sessions, only after they have passed, at a sufficiently high standard, the examinations on the Introductory Courses in Physics and in Mathematics, or have been exempted from those courses and the corresponding examinations.

1st year : Physics S1, with 9 hours laboratory.
Mathematics G1a.
Chemistry Intro., or an approved alternative course.

Candidates who have not taken the Physics Introductory Course are advised to attend either the lectures or the experimental demonstrations which will be repeated after most of the lectures.

2nd year : Physics S2, with 9 hours laboratory.
Mathematics G2a.

Candidates are recommended to attend lectures in their second year on a subject in a Faculty other than Science. (Examples are History, Philosophy, Music, Economics, Russian, Law, Engineering, Metallurgy, Textiles.) No examination in the chosen subject will be required, although one may be taken for test purposes if desired.

3rd year : Physics S3, with 12 hours laboratory.

Candidates in their 3rd year are recommended to attend, without examination, appropriate further courses in Mathematics, or in the voluntary subject taken in the 2nd year.

Note.—Although candidates are not required to present themselves for a language test to qualify for the degree, they are urged to acquire, or maintain, a reading knowledge of French and German.

(For further details of Physics courses, see under Physics, Lecture Courses, below.)

PHYSICS WITH ELECTRICAL ENGINEERING :

The requirements for acceptance for this combined Course in Special Studies, which extends over three sessions, are the same as those for Special Studies in Physics.

1st year : As for Special Studies in Physics.

2nd year : Physics S2, with 6 hours laboratory.
Electrical Engineering IIE, with 3 hours laboratory.
Mathematics G2a.

3rd year : Physics S3, with 9 hours laboratory.
Electrical Engineering : Two subjects chosen from IIIF(1), IIIH, IIIJ and IIIK, with 3 hours laboratory.

Note on Examinations. Examinations on parts of Physics S2, and on Electrical Engineering IIE will be taken at the end of the 2nd year. In the final examination, candidates will be examined on the two chosen Electrical Engineering subjects, and on selected portions, approximately three-quarters, of the subject matter of the normal papers for the final examination for the Degree in Special Studies in Physics.

For entrants to the University in 1952 or later, Physics with Electrical Engineering is no longer offered as a combined course in Special Studies, but a course of similar content may be taken for the degree in General Studies. Such a course would include General Courses as follows :—

- 2 in Mathematics
- 2 (or 3) in Physics
- 1 (or 2) in Electrical Engineering.

Details of the General Courses available in Mathematics and Physics are set out under "Courses in Science" (pages 34 and 37) and in Electrical Engineering in the Engineering Prospectus.

CHEMISTRY.

Students in the Special Studies School of Chemistry will take the special courses in Chemistry, together with Physics Intro. and G1, with laboratory work, Mathematics Intro., and an additional course or courses selected from the following list :

Physics G2.
Mathematics C1.
Scientific Method.
Agricultural Chemistry.
Some other branch of Applied Chemistry.
Some other subject cognate to Chemistry.

Approval of the additional course or courses must be obtained from the Head of the Department.

Language Test.

Students are expected to be able to read scientific literature in foreign languages. All candidates for Honours in Special Studies will be required to satisfy the examiners in written comprehension tests, in two languages approved by the Head of the Department of which German must be one. The use of dictionaries will be allowed in these tests which are normally held twice annually and may be taken by a student at any stage in his undergraduate career.

ZOOLOGY.

Four Years' Course (which may be shortened to three years if the student is sufficiently prepared to begin the Final Course in his first session).

1st year : Zoology Intro.
Physics Intro. (or Mathematics Intro.).
Chemistry Intro. (unless satisfactory evidence of previous knowledge is given).
One other Intro. subject.

2nd and 3rd years: Zoology G1 and G2, together with
either a course of study extending over 2 further years
of one of the subjects taken in the first year.

or a course of study extending over 1 year in each
of two subjects which need not have been taken
in the first year.

4th year : Zoology H., with full-time laboratory work, including advanced study with special reference to an approved problem or subject.

Students are strongly urged to obtain a reading knowledge of French and German before the end of their course.

BOTANY.

Four Years' Course (which may be shortened to three years if the student is sufficiently prepared to begin the Final Course in his first session).

1st year : Botany Intro.

Physics or Mathematics Intro. unless satisfactory evidence of previous knowledge is given.

Chemistry Intro. unless satisfactory evidence of previous knowledge is given.

One other course in a subject to be approved by the Head of the Department.

2nd year : G₁, together with one other course which in most cases must be Chemistry at least to the standard of M₂ and M₃.

3rd year : G₁ and Special Studies Botany Courses.

4th year : Special Studies Botany Courses.

N.B.—Students upon whom the degree of B.Sc. in General Studies has been conferred after a scheme of study which has included two or more General courses in Botany may proceed to the degree of B.Sc. in Special Studies in Botany after an additional year's study in the Department.

GEOLOGY.

Introductory Geology and Second, Third and Fourth year courses.

Two subjects studied for two years which will normally be Zoology and Chemistry G_i, G_p, or G₁.

One additional introductory subject.

Surveying.

Candidates will also be required to conduct an investigation, which shall include geological mapping, and to present a field report.

Students will be expected to obtain a reading knowledge of French and German before the end of their course, and their knowledge of these languages will be tested by means of an examination consisting of passages for translation into English. The use of dictionaries will be allowed at this Language Test. All candidates will be required to take this paper, and to satisfy the examiners in the translation of both these passages.

PHYSIOLOGY.

Course A :—

1st year : Physics Intro.
Chemistry Intro.
Zoology Intro.

- 2nd year : Physiology G1
Courses in Organic and Physical Chemistry,
normally Chemistry Go and Gp.
Candidates must attain a satisfactory
standard in the Departmental Examination
in Go.
- 3rd year : Physiology G2 and H
- 4th year : Physiology H

Candidates must study *one* other subject for three years or *two* other subjects for two years each. The subjects approved are :—

Three-year subjects : Chemistry (in this case a selected Special Studies Course in Chemistry must be taken as additional), Physics, Botany, Zoology, Anatomy.

Two-year subjects : Chemistry, Physics, Botany, Zoology, Bacteriology.

Candidates should consult the Professor of the subject or subjects selected in regard to the work required. All such courses must be taken before the commencement of the candidate's fourth year of study.

Students who do not offer Anatomy as a principal subject must take the medical course in Histology in the Department of Anatomy in the 2nd or 3rd year.

Course B :—

Students taking the normal course for the M.B., Ch.B., degrees who reach a sufficient standard in Chemistry and Physics in the 1st M.B. examination, may on the recommendation of the Professor of Physiology and with the permission of the Board of the Faculty be admitted to the Honours School subsequent to passing Part II of the 2nd M.B., Ch.B. examination. One year shall be devoted entirely to Physiology H.

Students are strongly urged to obtain a reading knowledge of French and German before the end of their course.

BIOCHEMISTRY.

- 1st year : Zoology Introductory.
Botany Introductory.
Chemistry Gi (F1)
Chemistry Gp (F2)
- 2nd year : Chemistry Go (F3)
Physiology and Biochemistry.
An additional subject.

- 3rd year : Physico-chemical aspects of Biochemistry.
General Biochemistry (G2a).
Bacterial Chemistry and Immunochemistry (G2b).
- 4th year : Mammalian Biochemistry in relation to disease.
Physico-chemical aspects of Biochemistry, or
Bacterial Chemistry and Immunochemistry.
Tutorials.

HUMAN AND COMPARATIVE ANATOMY.

Course A :—

- 1st year : Physics Intro.
Chemistry Intro.
Zoology Intro.
Botany Intro.
- 2nd year : Anatomy I (including Systematic Human Anatomy, Embryology, Histology, Neurology).
Another subject approved by the Professor of Anatomy.
- 3rd year : Anatomy II (including Systematic Human Anatomy, Advanced Embryology and Histology).
Another subject approved by the Professor of Anatomy.
- 4th year : Anatomy III consisting of special courses in Anatomy including Comparative Primate Morphology, Physical Anthropology, Comparative Neurology and other special fields as may be arranged.

Course B :—

Students taking the normal course for the M.B., Ch.B. degrees may, on the recommendation of the Professor of Anatomy and with the permission of the Board of the Faculty, be admitted to the school of Special Studies subsequent to passing Part II of the 2nd M.B., Ch.B. examination. Twelve months will then be devoted to the study of Anatomy III.

Students will be expected to obtain a reading knowledge of French and German before the end of their course, and their knowledge of these languages will be tested by means of an examination consisting of passages for translation into English. The use of dictionaries will be allowed at this Language Test. All candidates will be required to take this paper, and to satisfy the examiners in the translation of both these passages.

BACTERIOLOGY.

The following Courses are prescribed for students taking the Special Studies course in Bacteriology. Course A or Course B may be followed. The latter is suitable for students proceeding to a medical degree.

Students who have an elementary knowledge of Chemistry are recommended to take Chemistry Gp in their first year, Go in their second year and a portion of the Special Studies course in Organic Chemistry in their third year.

Course A :—

- 1st year : Physics Intro.
Chemistry Intro. or Gp
Zoology Intro.
Botany Intro.
- 2nd year : Bacteriology G₁
Chemistry Gp or Go.
Physiology G₁ or G_{1A}, or Physics G₁, or
Zoology G course, or Botany G_{1A}
- 3rd year : Bacteriology G₂
Chemistry Go or a selected Special Studies
course in Chemistry
Physiology G_{1A} or G₂, or Zoology G course, or
Botany G_{1A}
- 4th year : Special Studies work in Bacteriology
Selected courses in Bacteriology and research

Course B :—

Candidates may take the normal course for the M.B., Ch.B. degrees, taking in addition in their second year Bacteriology G₁. Subsequently to passing the Final M.B., Ch.B. examination (Part I) they shall in the ensuing eighteen months take Bacteriology G₂ and the fourth year Special Studies course in Bacteriology, together with portions of the Special Studies course in Chemistry.

Students will be expected to obtain a reading knowledge of French and German before the end of their course, and their knowledge of these languages will be tested by means of an examination consisting of passages for translation into English. The use of dictionaries will be allowed at this language test. All candidates will be required to take this paper, and to satisfy the examiners in the translation of both these passages.

PHARMACY.**PHARMACOLOGY.**

Course A for those entering the University with Physics, Chemistry and Biology (or Botany) at Advanced Standard in the G.C.E., or with a pass in the Intermediate Examination of the Pharmaceutical Society.

- 1st year : Chemistry Go
 Chemistry M3
 Zoology (1st M.B. course)
 Pharmacognosy I
 Pharmaceutics I
- 2nd year : Pharmacognosy II
 Pharmaceutics II
 Histology
 Physiology GIA
 Pharmaceutical Chemistry I
 Pharmacology I
 Statistics
- 3rd year : Pharmaceutics III (including Bacteriology)
 Pharmaceutical Chemistry II
 Pharmacology II

Special Studies (Pharmacology) :—

- 4th year : Pharmacology III

Course B :—

Students taking the normal course for the M.B., Ch.B. degrees who reach a sufficient standard in Chemistry (M2 and M3) in the 1st M.B. examination, in Physiology in the 2nd M.B. examination, and in Pharmacology in the Final M.B. examination, may, on the recommendation of the Professor of Pharmacology and with the permission of the Board of the Faculty, be admitted to the school of special studies either subsequent to passing the Final M.B., Ch.B. (Part I) examination or subsequent to graduating M.B., Ch.B. One year shall be devoted entirely to Pharmacology.

Students will be expected to obtain a reading knowledge of French and German before the end of their course, and their knowledge of these languages will be tested by means of an examination consisting of passages for translation into English. The use of dictionaries will be allowed at this Language Test. All candidates will be required to take this paper, and to satisfy the examiners in the translation of both these passages.

(B) DEGREES IN APPLIED SCIENCE

- Ordinance 17. The degrees in Applied Science¹ shall be :
 Bachelor of Science (B.Sc.)
 Master of Science (M.Sc.)
 Doctor of Philosophy (Ph.D.)
 Doctor of Science (D.Sc.)

DEGREE OF BACHELOR OF SCIENCE

18. The degree of Bachelor of Science shall be conferred either (i) as an Ordinary degree, or (ii) as a Special Honours degree.

1. Graduates in Applied Science may also proceed to the Degree of Master of Education (M.Ed.)

19. 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.

20. *School of Agricultural Studies.*

(a) Candidates who have pursued the requisite courses of study in the School of Agriculture and 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 in Agricultural Studies or
- (ii) the degree of Bachelor of Science with Second Class Honours in Agricultural Studies or
- (iii) the degree of Bachelor of Science.

The degree will be awarded with Honours to those candidates who attain a sufficiently high standard in the examinations.

(b) The names of successful candidates in each of the above groups shall be arranged in alphabetical order.

(c) Except with the special permission of Senate.

- (i) 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 the course of study approved by the University for the degree.
- (ii) a candidate failing in the Final Examination will not be allowed to present himself for re-examination on more than one occasion.
- (iii) a candidate who does not pass the examination at the first attempt will not be eligible for the award of the degree with Honours.
- (iv) 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.

Regulations The record of students at their departmental examinations may be taken into account in deciding the results of degree examinations.

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 Science degree.

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.

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 Science and Technology.

Concessions to Holders of Higher School Certificates or equivalent qualifications

Students taking a Science Degree may be exempted by the Board of Science and Technology from the introductory courses and corresponding examinations in the subjects already passed in the Higher School Certificate examination, or in an equivalent examination, provided that they have passed the examination at a sufficiently high standard and pursue an approved alternative course of study.

Applications for such exemptions should be made by the student (a) to the Head of the Department in which he is presenting himself for Honours in the case of a Special Honours candidate, (b) to the Dean of the Faculty of Technology in the case of any other candidate.

ORDINARY DEGREE OF BACHELOR OF SCIENCE

Ordinance

21. Every candidate shall be required to attend courses of study as set forth in the Regulations for his particular School of Applied Science.

22. The courses of study in each School of Applied Science shall extend over at least three years.

DEGREE OF BACHELOR OF SCIENCE WITH HONOURS

23. 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. Ordinance

24. Names of candidates who have passed the examination for the degree of Bachelor with Honours will be published in such form as to distinguish the Honours School in which severally they may have passed, the names of those who have passed in Honours being drawn up in three classes, and each class being arranged in alphabetical order.

25. Candidates who have not acquitted themselves so as to deserve Honours, but 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.

26. 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.

27. 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.

28. 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.

SPECIAL HONOURS SCHOOLS

Ordinance 29. 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.

30. 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.

Regulations 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.

Candidates whose thesis does not satisfy the examiners shall not receive the Honours degree, but may be recommended for the Ordinary degree.

ORDINARY AND HONOURS DEGREES

Regulations Candidates may choose an Applied Science School (Ordinary or Honours) from the following list :—

Civil Engineering	Chemical Engineering
Mechanical Engineering	Chemistry of Leather
Electrical Engineering	Manufacture
Mining Engineering	Colour Chemistry and Dyeing
Gas Engineering	Agricultural Studies (one
Fuel and Metallurgy	School only ; see Ordinance,
	Article 20)
	Textiles

N.B.—Detailed subjects of study for degrees in Applied Science (Ordinary or Honours) will be found set forth in the various Departmental prospectuses.

ORDINARY DEGREE

In the Final examination a paper will be set containing passages of French and German for 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. Regulations

Examiners will take account of the command of English language shown by candidates.

DEGREE AND DEPARTMENTAL EXAMINATIONS

1. *Degree Examinations :*

- (a) Degree examinations as laid down by the Regulations will usually be held in June.
- (b) 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 Science and Technology to defer his examination.

2. *Departmental Examinations :*

- (a) 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.
- (b) In courses extending over more than one session students may not commence 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.

3. *Conditions of entry :*

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 30th January, will be admitted to the examinations.

N.B.—The attention of students is drawn to the General Regulations for Students, Clause 12, respecting departmental examinations.

DEGREE OF MASTER OF SCIENCE

Ordinance

31. The degree of Master of Science may be conferred, on payment of the proper fee and subject to the conditions laid down in Articles 32 and 33 :—

- (a) Upon Bachelors of Science of the University who have graduated with Honours of not less than one year's standing and upon other Bachelors in any Faculty of not less than two years' standing ;
- (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 M.Sc., and who have prosecuted approved research in the University for not less than two years.
- (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 of two years or more, as determined by the Senate in each case.
- (e) *Upon persons who are not graduates, or have not passed the Final examination for a degree of an

* The attention of persons who desire to avail themselves of Sections (c) and (d) is directed to Statute XIII, to Ordinance IX and to the particulars relating to the examination for Matriculation in the University Calendar.

† Holders of the following approved Diplomas will be considered for acceptance for the M.Sc. degree, subject to the approval of the Senate :—Diploma 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.

approved University, but who have satisfied the Senate that their educational attainments are adequate and who have pursued a course of advanced study or research in the University for a period extending over not less than three years.

32. Candidates for the degree of Master of Science shall in all cases 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.

33. Candidates who are required under Article 31, (c), (d) and (e) to prosecute research in the University for a period of two or more years may obtain permission from the Senate to spend one or more years in acquiring a competent knowledge of a new subject provided that the whole of the final year is devoted to post-graduate study and research.

34. 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.

1. Candidates admitted under the provisions of Article 31 (a) or (b) of the Ordinance shall be required 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—in the theme of their thesis.

Candidates admitted under the provisions of Articles 31 (c), (d) or (e) 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 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 they shall be required 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—in the theme of their thesis.

2. 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.

3. A copy of the thesis submitted in support of the application will be retained in the University Library.

N.B.—The latest date of entry and payment of fee for the June examination is 30th January. The thesis (which must be submitted not later than 1st May) should be typewritten and at least two copies should be supplied.

DEGREE OF DOCTOR OF PHILOSOPHY

Ordinance

35. The Degree of Doctor of Philosophy may be conferred on payment of the appropriate fee and subject to the conditions contained in Articles 36 and 37:—

- (a) On persons who are registered graduates of the University of Leeds or graduates of an approved University.
- (b) On the holder of a Diploma awarded by an approved institution of university rank not empowered to confer degrees, provided that the course of study in the subject for which the Diploma has been awarded has extended over not less than three years of full-time study.
- (c) In exceptional cases on the holder of a Diploma of the University of Leeds, provided that the Senate is satisfied regarding the course of study towards such Diploma and the standard attained by the candidate in the examination for the Diploma.

36. Except as provided in Article 37, 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.

37. 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 35 (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.

NOTE.—Candidates wishing to avail themselves of the provisions of this Article should normally have previously obtained a Master's degree of this or of another approved University by the presentation of a thesis or dissertation. Only candidates with high qualifications who are strongly recommended by the Head of the Department concerned will be accepted under Article 37.

1. Before entering on the course of advanced study and research, candidates are required:—

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

2. On completing the course of advanced study and research candidates are required :

- (a) To present a thesis on the subject of their advanced study and research, and to 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) To 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 to satisfy the examiners in the examination as well as in the thesis presented.

3. 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.

NOTE.—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.

4. A candidate is required during his course to 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.

5. A candidate will not be permitted to submit as his thesis one for which a degree has been conferred upon him 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 to the University 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.

6. 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.

7. 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 will be retained in the University Library.

NOTE.—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.

DEGREE OF DOCTOR OF SCIENCE

38. 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. Ordinance

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.

39. 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.

40. If the application be approved by the Senate, the degree may be conferred at the first convenient date thereafter.

Application for the degree of Doctor of Science shall be made in writing to the Registrar before 30th January. It should be accompanied by three copies of the thesis and/or publications submitted in support of the application. Regulations

Theses not already published shall be drawn up in a form suitable for publication. 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. A copy of the thesis submitted in support of the application will be retained in the University Library.

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.

N.B.—The latest date for application and payment of fee is 30th January.

DIPLOMAS IN SCIENCE AND TECHNOLOGY

Ordinance 41. 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.

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

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

Regulations 1. Candidates for Diplomas are required to give satisfactory attendance upon all the 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.

2. 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.

3. 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.

4. Diplomas are granted by the University in the following subjects :—

Agriculture*	Gas Engineering
Mining Engineering	Chemical Engineering
Colour Chemistry	Fuel Technology
Dyeing	Ceramics
Leather Manufacture	Metallurgy
Textile Industries	

In addition the University grants postgraduate Diplomas in the following subjects :—

Agriculture (Farm Management)	Gas Engineering
Agricultural Bacteriology	Chemical Engineering
Agricultural Botany	Fuel Technology
Plant Pathology	Ceramics
Agricultural Chemistry	Metallurgy
Agricultural Economics	Textile Industries
Agricultural Zoology	Plant Cytology

(For regulations governing the award of Diplomas in Applied Sciences see the respective departmental prospectuses.)

* In abeyance at present.

COURSES IN SCIENCE

MATHEMATICS (AND STATISTICS)

INTRODUCTORY COURSES

Mathematics Introductory

Mondays Tuesdays, Wednesdays and Fridays at 9 a.m.

Algebra, Calculus, Geometry, Statics and Dynamics.

Statistics Introductory

Tuesdays, Wednesdays and Fridays at 9 a.m.

Elementary treatment of statistical data. Introduction to problems of sampling.

To be accepted for Statistics Introductory, students should normally either have passed Mathematics Introductory or have been granted exemption therefrom ; or have reached a sufficiently high standard in Mathematics at the Advanced Level in the examination for the General Certificate of Education, or in some equivalent examination. (Attention is also drawn to the possibility of commencing the study of Statistics under the Mathematics (b) scheme. See General 1b, below.)

Examinations

Mathematics Introductory : 2 papers

Statistics Introductory : 2 papers.

GENERAL COURSES

Mathematics General 1a

Pure Mathematics. Mondays, Wednesdays and Fridays at 12 noon.

Algebra, Plane Geometry, Calculus.

Applied Mathematics. Tuesdays and Thursdays at 12 noon.

Statics, Dynamics, Hydrostatics.

Mathematics General 2a

Pure Mathematics. Mondays, Wednesdays and Fridays at 10 a.m.

Calculus (partial differentiation, differential equations, multiple integrals); Fourier Series; Analytical Geometry of Three Dimensions; Spherical Trigonometry; Computation.

Applied Mathematics. Mondays, Wednesdays and Fridays at 12 noon.

Vectors; Advanced Statics; Particle Dynamics; Rigid Dynamics in two dimensions; Lagrange's Equations.

Mathematics General 3a

This course is designed for students who, having been exempted from Mathematics Introductory, take General Courses 1A and 2A in their first two years of study.

Pure Mathematics. 2 hours a week.

Some or all of: Elementary matrix theory; transformation of multiple integrals; line integrals; Green's and Stokes' theorems; Legendre polynomials; Bessel coefficients; Sturm-Liouville systems of differential equations; elements of the theory of functions of a complex variable.

Applied Mathematics. 2 hours a week.

The course to consist in any one year of:

- (a) The theory of vibrations; hydrodynamics.
- or (b) The theory of vibrations; Cartesian tensor analysis and elasticity.
- or (c) General dynamics; statistical mechanics.

Final Examination

For students completing their course at General 1A stage:
2 papers.

For students completing their course at General 2A stage:
3 papers.

For students completing their course at General 3A stage:
4 papers.

Statistics General 1

Tuesdays and Thursdays at 10 a.m.; and at two other hours to be arranged.

Generalised frequency distributions, analysis of variation ; sampling theory of Gaussian distribution ; interpretation of experimental data and arrangement of field trials ; merits of alternative sampling schemes ; correlation ; statistical computations.

Final Examination

For students completing Statistics General 1: 2 papers, one of which is a computation paper.

Mathematics General 1b

Pure Mathematics : Mondays, Wednesdays and Fridays at 12 noon.

Syllabus as for Pure Mathematics of General 1A.

Statistics : Tuesdays and Thursdays at 12 noon.

Elementary treatment of statistical data. Introduction to problems of sampling.

Mathematics General 2b

Pure Mathematics : Wednesdays and Fridays at 10 a.m.

Syllabus as for Pure Mathematics of General 2A, but *excluding computation*.

Statistics : Tuesdays and Thursdays at 10 a.m. ; and at two other hours to be arranged.

Syllabus as for Statistics General 1 above.

Final Examination

For students completing their course at General 1b stage : 3 papers, viz., one on Pure Mathematics, and two on Statistics, one of the latter being a computation paper.

For students completing their course at General 2b stage : 3 papers, viz., one on Pure Mathematics, and two on Statistics, one of the latter being a computation paper.

E1. Pure Mathematics for Applied Science Students (Second Year)

Mondays, Wednesdays and Fridays at 10 a.m.

Calculus, Differential Equations ; Analytical Geometry of Three Dimensions, Spherical Trigonometry, Fourier Series, Computation.

E2. Applied Mathematics for Applied Science Students (Second Year)
Mondays, Wednesdays and Fridays at 12 noon.

More advanced Statics, Particle and Rigid Dynamics
in Two Dimensions,

E3. Pure Mathematics for Applied Science Students (Third Year)
Tuesdays and Thursdays at 10 a.m.
Calculus and Analysis.

**E4. Pure and Applied Mathematics for Applied Science Students
(Third Year)**
Mondays and Wednesdays at 10 a.m.
Vector Analysis and related topics; Advanced
Dynamics; Statistics.

C1. Mathematics for Chemistry Students

The lectures of E1 (three hours a week), and the
algebra lectures of General 1A (one hour a week).

Special Studies Courses

Lectures are given, at hours to be arranged, on the
main branches of both Pure and Applied Mathematics,
including the history of the subject. In addition, each
student may select *one* branch for more advanced study,
and attend special lectures on it during the later part
of the course.

PHYSICS

LECTURE COURSES

Note.—Reading references, including text-books and,
where appropriate, original papers, are given by the
lecturers. Tutorial classes are arranged in connection
with the Introductory, and with some of the General
and Special Courses.

Introductory Courses

IA. Tu., 10, Th., 10, F., 2 or S., 10. **IB.** Tu., 12, Th., 12,
F., 2 or S., 10. IA and IB are alternative courses,
each of which covers the main branches of physics
in an elementary manner, with experimental
demonstrations. Prospective students should have
an elementary knowledge of trigonometry and
mechanics.

General Courses

- G1. M., 11, W., 11, F., 11. The course, which is complete in itself, provides a general survey of the main fields of classical and modern physics, including the following: general physics; heat; optics; electricity and magnetism; atomic physics. To enter upon this course, students are required to have passed, or to have been exempted from, the Introductory examination in Physics. In the lectures a background knowledge corresponding to the Introductory course in Mathematics will be assumed. Students who have not already passed, or been exempted from, the Introductory examination in Mathematics are advised to take the course concurrently.
- G2. M., 2, Th., 11, F., 2. In this course the themes introduced in G1 are developed and extended. To enter upon the course, students are required to have passed the examination on the G1 course in Physics. In the lectures a background knowledge corresponding to the G1a course in Mathematics will be assumed. Students who have not already passed the G1a examination in Mathematics are advised to take the course concurrently.
- G3. Three or four hours per week. The course comprises certain sections of the Special Studies courses (see below) which will be prescribed internally to suit the needs and interests of individual students. G3 will usually be taken in the year after G2, but in special cases part or the whole of G3 may be taken in the same year as G2. Students are advised that a study of Mathematics up to the G2 level is necessary for a proper appreciation of this course.

Special Courses

- S1. M., 11, Tu., 2, W., 11, F., 11. The course includes the content of G1, with modifications and additions appropriate for those who intend to pursue Special Studies in Physics for two further years. To enter upon the course, students are required to have reached

a good standard in the appropriate School examinations, or in the Introductory examinations in Physics and Mathematics.

S2. M., 2, Tu., 11, Tu., 2, W., 11, Th., 11, F., 2. The course is a continuation and extension of S1. To enter upon the course, students must have passed the examinations on the S1 course in Physics and on the G1a course in Mathematics.

S3. M., 9, M., 11, Tu., 12, W., 11, Th., 9, F., 11.

To enter upon the S3 course, students must have passed the examinations on the S2 course in Physics and on the G2a course in Mathematics.

The various groups of lectures in S1, S2 and S3, are interrelated so as to provide a conspectus of physics as a whole as it has grown up and is developing at the present time. The S1 course includes groups of lectures on general physics, heat, optics, electricity and magnetism, and atomic physics. The treatment of these subjects is developed and extended in lectures in S2 and S3. The themes dealt with in other groups of lectures in S2 and S3 include the following: History and method; thermodynamics and statistical mechanics; electromagnetic theory; magnetic, electrical and general properties of matter; crystal physics; atomic physics; quantum mechanics; nuclear physics. Shorter courses on various special topics are given from time to time.

Short Courses

Acoustics. Th., 2. One lecture per week throughout the session. This course is intended primarily for students of Music, but will be open to University students generally. (Those wishing to attend are asked to make application to the Head of the Department at the beginning of the session.) The approach will be experimental rather than mathematical. No previous knowledge of the subject will be assumed, but a general elementary knowledge of physics and mathematics would be advantageous.

Other short courses. Certain parts of the General and Special Courses form self-contained short courses which may be of interest to students both in the Faculty of Science and in other Faculties, who are not taking the particular Physics course as a whole. Information may be obtained from the Department of Physics.

Physics Laboratories

Students' times of attendance in the laboratories are arranged at the beginning of the session, and must not be altered subsequently without permission.

The minimum laboratory attendance required from students taking the various courses is shown in the regulations on previous pages.

CHEMISTRY

SPECIAL STUDIES COURSES

Students wishing to take the Special Studies Chemistry Course in three years must have passed Principal Chemistry and Physics in Higher School Certificate at "Good" standard or attained the equivalent standard at the Advanced level of the General Certificate of Education or passed in Introductory Chemistry and Physics in this or another approved University.

The expressions "First Year," etc., below refer to courses for three year candidates; courses for students who are advised to spend four years over taking their degree will be arranged in consultation with the Head of the Department.

First Year Courses

SI. Inorganic and Physical Chemistry

An Advanced Course in the fundamental principles of Chemistry.

Seminar

A course on the theoretical and quantitative aspects of the laboratory work.

The lecture time allowed for SI and Seminar varies from term to term, but is never more than 6 hours a week in the first two terms and 3 hours a week in the third term. It is divided flexibly between the two courses. In addition to these lectures and the laboratory work there will be one hour a week of informal teaching.

O1. Organic Chemistry

Mondays, Wednesdays and Fridays at 10 a.m. during the *third* term.

This, together with O2 in the second year, forms the first part of the systematic course in organic chemistry for students taking the Special Studies Course.

Second Year Courses

I2. Systematic Inorganic Chemistry

Three hours per week throughout the session.

Inorganic chemistry presented as a body of observational knowledge correlated by relationships of modern physicochemical theory.

P2. Physical Chemistry

Three hours per week throughout the session.

O2. Organic Chemistry

Mondays at 4 p.m., Thursdays and Saturdays at 9 a.m. throughout the session. (See O1 above.)

Third Year Courses

S3. Advanced Inorganic and Physical Chemistry

Three lectures per week throughout the session.

A course dealing with valency and molecular structure, energetics and kinetics of chemical processes and classical and statistical thermodynamics.

O3. Advanced Organic Chemistry

Mondays and Wednesdays at 11 a.m., Thursdays at 10 a.m., throughout the session.

This course forms the second part of the systematic course in organic chemistry for students taking the Special Studies Course.

Short Courses

A number of courses of a more advanced character are given of which Third Year Special Studies students are required to take two.

Scientific Method

A course on the principles of scientific method and the development of scientific ideas.

Times will be arranged at the beginning of the session.

PRACTICAL CHEMISTRY**General Laboratory Courses**

There are laboratory courses and seminars in conjunction with the lecture courses. Students' times of attendance in the laboratories are arranged at the beginning of the session and must not be altered subsequently without permission.

GENERAL STUDIES COURSES**Introductory Course**

Mondays, Wednesdays, and Fridays, at 12 noon throughout the session and laboratory work.

General Courses**Gi (F1). Inorganic Chemistry**

Mondays, Wednesdays, and Fridays, at 10 a.m. throughout the session and laboratory work.

Gp (F2). Physical Chemistry

Tuesdays, Thursdays and Saturdays at 10 a.m. throughout the session and laboratory work.

Go (F3). Organic Chemistry

Tuesdays and Thursdays at 12 noon, and Fridays at 4 p.m., throughout the session and laboratory work.

Chemistry G1 and G2

These two courses cover all three branches of chemistry in a two-year course.

Candidates wishing to take Chemistry G1 must have passed, or have obtained exemption from, the Introductory course in Chemistry. Before proceeding to Chemistry G2 candidates must pass the examination on Chemistry G1.

COURSES FOR THE DEGREE OF B.Sc. IN APPLIED SCIENCE**Introductory Course**

Mondays, Wednesdays and Fridays, at 12 noon throughout the session and laboratory work.

General Courses**Gi (F1). Inorganic Chemistry**

See Gi under General Courses above.

Gp (F2). Physical Chemistry

See Gp under General Courses above.

Go (F3). Organic Chemistry

See Go under General Courses above.

Other Courses**F2¹. Thermodynamics**

Tuesdays, Thursdays and Saturdays at 10 a.m. throughout the session.

A course in chemical thermodynamics for students of Chemical Engineering and Metallurgy and others.

COURSES FOR THE FIRST M.B. Ch.B. EXAMINATION

*M.1. Inorganic and Physical Chemistry.

*M.2. Organic Chemistry.

*M.3. Physical Chemistry.

Courses M.2 and M.3 also form part of certain other courses of study.

Dental Materials

A course of five lectures on the chemistry of dental materials held during the first term.†

Scientific Method

See under Chemistry Special Studies courses above.

ZOOLOGY**GENERAL STUDIES COURSE****Introductory Course**

Lectures on Mondays and Fridays at 11 a.m. throughout the session. Practical work on Tuesdays from 2 to 4 p.m. and on Wednesdays from 10 to 12 noon throughout the session.

*For particulars see Medical prospectus.

†These lectures form part of the course on The Properties of Dental Materials.

The course includes elementary comparative anatomy and physiology, the elements of reproduction and development, with an introduction to histology.

General Courses

ZOOLOGY G1

Syllabus: Systematics and comparative anatomy of vertebrates with additional lectures upon evolution, cytology and genetics, entomology, parasitology and embryology.

ZOOLOGY G2

Syllabus: Invertebrates with additional lectures upon evolutionary theory, animal physiology, experimental Zoology, ecology, and animal behaviour.

ZOOLOGY G3

Lectures and practical work in comparative physiology, entomology and parasitology.

ZOOLOGY G4

Vertebrates and Invertebrates, comparative embryology, evidence and theory of evolution.

N.B.—Students wishing to take the General Courses must have passed or be exempt from the Introductory Course.

Special Studies Courses

The hours for Special Studies lectures and the advanced work will be arranged with students at the beginning of the session.

Courses for the First M.B., Ch.B. Examination

Classes on Fridays from 9 a.m. to 5 p.m. during the first and part of the second terms of the first year of the medical course.

Courses for the L.D.S. and B.Ch.D. Examination

Lectures on Mondays and Fridays at 11 a.m., and practical work on Mondays and Thursdays from 2 p.m. to 4 p.m., throughout the session.

ZOOLOGICAL LABORATORY

The Zoological laboratory will be open daily from 9 a.m. to 5 p.m. (Saturdays from 9.30 a.m. to 12 noon).

Each student is required to provide himself with a set of *dissecting instruments*, and a *biological drawing book* (to be obtained in the laboratory).

Microscopes may be hired from the University, by Pure Science students only, at the rate of £1 1s. each per session for Zoology only or £1 10s. for Botany and Zoology. These fees are charged for the use of a microscope during the hours of official laboratory classes only. The fees must be paid in advance to the Bursar immediately after the student has arranged with the Laboratory Steward for the loan of a microscope.

BOTANY

Course for First M.B., Ch.B. Examination

Lectures and laboratory work during the second six weeks of the second term and during the third term at the following times: Mondays, 10 a.m. to 1 p.m., Wednesdays, 12 noon to 1 p.m., Thursdays, 3 p.m. to 5 p.m., Fridays, 9 a.m. to 12 noon.

GENERAL STUDIES COURSE

Introductory Course.

On Tuesdays and Thursdays from 9 to 10 a.m. and from 11 a.m. to 1 p.m. throughout the session.

This course includes the study of the form, structure, development and life history of some illustrative examples of the lower and higher plants together with an elementary introduction to experimental physiology and to the principles of classification of the flowering plants.

General Courses

GIA and GIB.

Lectures on Mondays at 9 a.m., Wednesdays and Fridays at 10 a.m., throughout the session.

A minimum of six hours laboratory work at hours to be arranged, but preferably 2 p.m. to 5 p.m. on Mondays and Fridays for second year students and immediately following the lectures on Mondays and Fridays for third year students.

GIA. Comparative morphology : Algæ and Fungi.

Angiosperm anatomy.

Physiology of metabolism.

Cytology and heredity.

Ecology. Systematic Botany.

GIB. Comparative morphology and anatomy : Bryophyta, Pteridophyta, Gymnosperms.

Physiology of growth and water relations.

Ecology. Systematic Botany.

Courses A and B are held in alternate years. The two years course will prepare for the final B.Sc. Examination.

G2. Certain sections of the Special Studies course which will be prescribed internally from time to time.

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 the 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).

BOTANICAL LABORATORIES

The Botanical laboratories will be open daily from 9.30 a.m. to 5 p.m. except on Saturdays, when they will close at 12 noon.

Microscopes may be hired from the University at the rate of £1 1s. each per session for Botany only or £1 10s. for Botany and Zoology. These fees are charged for

the use of a microscope during the hours of official laboratory classes only. The fees must be paid in advance to the Bursar immediately after the student has arranged with the Laboratory Steward for the loan of a microscope.

A returnable breakage deposit of 50/- must be paid by all students taking plant physiology in a final degree course. It should be paid in advance to the Bursar in October and returnable portions will be refunded at the end of the session.

Each student is required to provide himself with a pocket lens, a drawing book and a set of instruments.

BACTERIOLOGY

GENERAL STUDIES COURSE

No Introductory Course in Bacteriology is available.

General Courses

BACTERIOLOGY G1.

1st Term.

Mondays, Wednesdays and Fridays, 2 to 5 p.m.

2nd Term.

Mondays and Wednesdays, 2 to 5 p.m.

The meetings will normally include both lecture and practical work.

The course will deal chiefly with the biological characters of bacteria, their biochemical activities and the method of their cultivation, and the phenomena of immunity. It will also include a brief general survey of the known bacteria important in soil, food, industry, veterinary work and medicine.

BACTERIOLOGY G2.

1st Term.

Wednesdays and Fridays, 10 to 11 a.m.

2nd Term.

Tuesdays and Thursdays, 10 to 11 a.m.

First four weeks of 3rd Term.

Tuesdays and Thursdays, 9 to 10 a.m.

This course will deal in greater detail with the phenomena of immunity, and of bacterial respiration, also with viruses, bacteriophage, antibiotics, chemotherapy and physical methods in their application to advanced bacteriological technique. It will also include some part of the Diploma in Public Health course on the hygienic aspects of bacteriology.

Practical work to be arranged at suitable times.

Candidates taking General Courses in Bacteriology must have included in their first-year courses (a) Botany or Zoology and (b) Chemistry.

PHYSIOLOGY

Introductory Courses

There is no Introductory Course.

General Courses

G1A. Lectures on Monday and Friday 12 noon and Thursday at 11 a.m., Laboratory work, Monday and Thursday 2 p.m. to 5 p.m. This course must be taken as part of the Special Studies courses for Biochemistry and Pharmacology but is open to other students. The course assumes a knowledge of Chemistry, Physics and Zoology to Introductory standard and that further studies in Organic Chemistry are being undertaken.

G1 & G2. These two courses are designed for students who wish to obtain a more detailed knowledge of the subject and more experience of laboratory work in a two-year course. It is not practicable to take either course separately.

Three or four lectures and 6 hours' laboratory work a week and tutorial classes throughout the session.

The course assumes knowledge of Chemistry, Physics and Zoology as for the G1A course.

H. Special Studies Course

The hours for lectures and advanced laboratory work will be arranged with students at the beginning of the session.

BIOCHEMISTRY
GENERAL STUDIES COURSE

No Introductory course in Biochemistry is offered.

General Courses

Biochemistry G1

2 lecture hours and 5 hours laboratory work.

A pass in or exemption from Introductory Chemistry is a necessary preliminary to this course. A knowledge of Botany or Zoology to advanced level in the General Certificate of Education is also presumed, and a pass in or exemption from Introductory courses in at least one of these subjects is desirable.

Biochemistry G2a

3 lecture hours and 5 hours laboratory work.

Biochemistry G2b

2 lecture hours and 6 hours laboratory work.

This is a course in Microbiological Chemistry.

For further particulars of courses in this Department apply to the Head of the Department.

**COURSES IN NUTRITION AND
DIETETICS**

Students who wish to follow careers requiring a knowledge of nutrition and dietetics, e.g., dieticians, food supervisors, etc., are recommended to follow a degree course including Chemistry and Physiology as principal subjects and Bacteriology as a subsidiary subject. But some other science or applied science subject may be taken instead of Bacteriology.

It will usually be necessary to obtain a professional qualification after graduation, e.g., a Diploma in Dietetics, and intending students are recommended to obtain advice from the Tutor of Women Students.

GEOGRAPHY**GENERAL STUDIES COURSE****Introductory Course**

- IA. General World Geography (two lectures a week).
- IB. Practical Work (Cartography I) (two hours a week).
- IC. Tutorial and Essay Work.

General Courses*Second Year :*

- GIA. (i) Outlines of Human Geography (two lectures a week).
- (ii) A Regional Study of the British Isles (one lecture a week).
- (iii) Practical Work (Cartography II) (three hours a week).

Third Year :

- G2B. (i) Economic and Political Geography (two lectures a week).
- (ii) Study of one selected region (one lecture a week).
- G2C. (i) History of Geographical Discovery and Exploration (one lecture a week).
- (ii) Study of two selected regions (each one lecture a week).
- G2D (i) Physical Geography (one lecture and two hours practical work a week).
- (ii) Study of two selected regions (each one lecture a week).

All students are required to attend Tutorial and Essay Classes.

GEOLOGY**Introductory Courses**

- (a) Normal Introductory Course.
 - Lectures :* Mondays and Fridays at 10 a.m.
 - Laboratory Classes :* Mondays and Fridays at 2 to 4 p.m.
 - (b) Introductory Course for Mining and Engineering students.
 - Lectures :* Thursdays at 2 p.m.
 - Laboratory Classes :* Thursdays at 3 to 5 p.m.
- Field classes for all students are held during the session.

GENERAL COURSES

First Year : Introductory Geology.

Second Year : Geology G.1. Mineralogy.
Palæontology.
Map Interpretation.

Third Year : Geology G.2. Stratigraphy.
Economic Geology, or one
other selected course.

Geology G.3. A selection of advanced
courses.

Field classes are held throughout the session.

SPECIAL COURSES

First Year : Introductory Geology.

Second Year : Mineralogy.
Palæontology.
Map Interpretation.

Third Year : Stratigraphy.
Petrology.
Economic Geology.
Map Interpretation.

Fourth Year : Advanced course on special subjects.

Field classes are held throughout the session.

All students taking second, third and fourth year courses are required to attend a week's field class during the Easter vacation. The expenses of this and other field classes are additional to the normal fees.

ANTHROPOLOGY

Introductory Course

(a) *Living Organisms and their Environment*

Human Origins and Differentiation. Zoological position of man ; outline of primate and human evolution ; classification and distribution of man ; biological basis of primate and human society.

Morphological and physiological characters of anthropological interest. Elements of genetics. Study of physique. Differential growth into body proportions, physique and body composition. Influence of heredity and nutrition on growth. Comparative anatomy and physiology of main human stocks.

Twelve weeks, each of three hours formal teaching and a practical period (one hour).

(b) *Prehistory and General Ethnology*

Introductory: The concept of human races and the limitations of classifications of man on the basis of race. The geographical background and setting of early man; the distribution of physical types and of human industries. Evidences regarding the antiquity of man and his industries in America.

Climatic and related changes following the close of Pleistocene time. The mesolithic age in Europe and the emergence of neolithic cultures in the developing desert zone of Afrasia. The significance of the neolithic impulse in relation to possible migrations of peoples leading to a consideration of the racial composition of the major regional groupings of living mankind.

From the Age of Stone to the Age of Metal. The earliest civilisations; Ancient Egypt; the Fertile Crescent, Pre-Vedic India, China, the Aegean region.

An outline of Europe in later prehistoric times.

(c) *Comparative Religion*

Primitive Religion. The rise of higher religions.

(b) and (c) ten weeks, each of three hours formal teaching.

First Year examination to consist of two three-hour papers and a practical.

General Courses

Anthropology G.A.

The comparative study of human institutions. Methods of analysis of human society.

The background of culture. Social inheritance, as a human phenomenon. Meaning of Civilisation and Culture.

How societies function. Ideal and real patterns of behaviour. Institutions and associations. Status and role. Class and caste divisions. The social significance of race.

The basic human institutions, the family. Types of family organisation. Kin groups and clans. Marriage and the family.

Law and Order. System of social control.

Types of Societies.

Examination :

- 2 papers : Principles of Social Structure I
Principles of Social Structure II.

Anthropology G.B.

The study of a specific group of societies :

- (a) Caribbean societies as examples of heterogeneity.
 - (b) The Minority Group. The negro in the U.S.A.
 - (c) Brazilian Culture, a type of amalgamation.
- Problems of large scale complex societies.

Examination :

- 2 papers : Specific Societies I
Specific Societies II.

Books Recommended

Students will be required to do specific reading in relation to the various aspects of the courses. In addition they will be expected to be familiar with the sections of the following standard works which are relevant to each year's work :

- R. Lowie, *Primitive Society* ;
- M. J. Herskovits, *Man and his works* ;
- A. L. Kroeber and T. T. Waterman, *Source Book in Anthropology* ;
- A. Goldenweiser, *Anthropology* ;
- F. Boas, *General Anthropology* ;
- R. Firth, *Human Types* ;
- Chapple and Coon, *Principles of Anthropology* ;
- G. F. Moore, *History of Religions*.

COURSES IN MODERN LANGUAGES

Lower Elementary German for Science Students.

A one year course in German intended for beginners in which special attention will be given to the needs of students of science and technology.

Mondays and Fridays at 2 p.m.

Recommended Book—Fiedler and Sandbach, *A First German Course for Science Students*.

Russian for Science Students.

A one year course for students of science and technology wishing to acquire a reading knowledge of Russian.

Three hours a week at times to be arranged.

DEPARTMENTS OF
CIVIL, MECHANICAL AND
ELECTRICAL ENGINEERING

The work of these Departments is intended to provide a systematic training in the application of scientific principles to engineering purposes, and is not intended in any way to supersede the practical training received in engineering works and offices. An apprenticeship or pupilage in such works or offices is essential for every Engineering student.

The scientific training at the University must be regarded as a means of acquiring the principles that underlie the art of Engineering, and the training in the Works as necessary for acquiring the art itself.

It is often desirable that students, whether taking up Civil, Mechanical or Electrical Engineering, should have about one year's practical experience in Engineering Works before taking up the University course. This, however, is not an entry requirement and students are admitted direct from school.

A candidate for a degree in any Faculty of the University must satisfy the requirements of the Joint Matriculation Board. (Enquiries should be directed to "The Secretary, Joint Matriculation Board, 315, Oxford Road, Manchester, 13.")

Though the Engineering courses are designed primarily to suit students intending to be Civil, or Mechanical, or Electrical Engineers, some subjects in the Engineering courses are such as should be studied by Mining Engineers and Architects and indeed, would be found of direct practical utility to students who afterwards are to be engaged in any occupation connected with manufactures.

It is hoped that all Engineering students will join the Students' Engineering Society and will play a full part in the activities of the Engineering Departments and the University generally.

COURSES OF STUDY

The courses of study provided enable the student to read for a Degree on which Honours may be awarded or alternatively, for an Ordinary Degree.

To read for Honours will normally require four years' residence but entrants with suitable qualifications may read for Honours in three years. Students holding a General Certificate in Education at the Advanced Level and having reached the standard required by the Senate in Mathematics and either Physics or Chemistry, all at Advanced Level, or students holding a Higher National Certificate, or students having approved equivalent qualifications, may read for Honours in three years.

Normally all students will be registered to read for Honours. The question of whether or not they continue in the Honours School will depend on the general progress made in the Engineering Laboratories and Engineering Drawing Offices and on the results of the examinations in the first two years.

The courses are organised as follows :—

- (a) A FOUR YEAR COURSE on which Honours may be obtained. This will be the course for entrants not qualified for exemption from Mathematics Introductory and either Physics Introductory or Chemistry Introductory.
- (b) A THREE YEAR COURSE on which Honours may be obtained. This is designed primarily for students with entrance qualifications which permit exemption from Mathematics Introductory and either Physics or Chemistry Introductory.
- (c) A THREE YEAR COURSE leading to an Ordinary Degree.

These courses are set out in detail below.

Four Year Course for the Degree of B.Sc. with
Honours in Civil Engineering, Mechanical
Engineering or Electrical Engineering

First Year :

Engineering I.
Mathematics Introductory.
Metallurgy Introductory.

*English

and *one* of the following :—

Physics Introductory.
Chemistry Introductory.
Approved alternative subject.

Second Year :

Engineering II.
Mathematics E₁ and E₂.
Applied Economics (or Economics Introductory†)

Third and Fourth Years :

Engineering III.
Engineering IV.

‡Geology (Civil Engineering Students)

Fuel (Mechanical and Electrical Engineering Students).

and *one* of the following :—

Mathematics E₃ and E₄.
Metallurgy IIIe.
Economics II.
Chemical Engineering IIIe.
Approved alternative subject.

Three Year Course for the Degree of B.Sc. with
Honours in Civil Engineering, Mechanical
Engineering or Electrical Engineering •

First Year :

Engineering I.
Mathematics E₁ and E₂.
Metallurgy Introductory.

*English.

Applied Economics (or Economics Introductory†).

* No examination will be held in English.

† Students wishing to proceed to Economics II must take Economics Introductory instead of Applied Economics.

‡ Field work in addition.

Second Year :

Engineering II.

Fuel (Mechanical and Electrical Engineering students)
and *one* of the following :—

Mathematics E3 and E4.

Metallurgy IIIe.

Economics II.

Chemical Engineering IIIe.

Approved alternative subject.

Third Year :

Engineering III.

Engineering IV.

*Geology (Civil Engineering Students)

Students holding a Higher National Certificate or equivalent qualifications and pursuing the Three Year Course for Honours will be excused Engineering I and will take Mathematics Introductory and either Physics Introductory or Chemistry Introductory.

Three Year Course for the Ordinary Degree of
B.Sc. in Civil Engineering, Mechanical Engineering or Electrical Engineering

First Year :

Engineering I.

Mathematics Introductory.

Metallurgy Introductory.

†English

and *one* of the following :—

Physics Introductory.

Chemistry Introductory.

Approved alternative subject.

Second Year :

Engineering II.

Mathematics E1 and E2.

Applied Economics.

Third Year :

Engineering III.

*Geology (Civil Engineering Students).

Fuel (Mechanical and Electrical Engineering Students).

* Field work in addition.

† No examination will be held in English.

The subjects included in Engineering I, II, III, and IV are given below. Courses taken in the Civil Engineering Department are denoted by the letter C, those in the Mechanical and Electrical Engineering Departments by the letters M and E, respectively. The Roman numerals preceding the letter signify the year of the course and the final number denotes the subject.

Engineering I :

*Civil Engineering	..	..	..	Ic.
Mechanical Engineering	..	..	..	IM.
Electrical Engineering	..	..	..	IE.
Engineering Laboratory and Drawing Office				

Engineering II :

(a) *Civil Engineering :*

Theory and Design of Structures	..	..	IIC (1).
Public Works Engineering	..	..	IIC (2).
*Surveying and Building Science	..	..	IIC (3).
*Strength of Materials	..	..	IIM (1)
Hydraulics	..	..	IIM (4).
Electric Power Engineering	..	..	IIE (1).
Drawing and Design			

Engineering Laboratory
and one of the following :—

Heat Engines	..	..	IIM (2).
Theory of Machines	..	..	IIM (3).
Production Engineering	..	..	IIM (5).

(b) *Mechanical Engineering :*

Strength of Materials	..	..	IIM (1).
Heat Engines	..	..	IIM (2).
Theory of Machines	..	..	IIM (3).
Hydraulics	..	..	IIM (4).
Theory and Design of Structures	..	..	IIC (1).
Electric Power Engineering	..	..	HE (1).
Drawing and Design			

Engineering Laboratory
and one of the following :—

Production Engineering	..	..	IIM (5).
Public Works Engineering	..	..	IIC (2).
Electric Circuit Theory	..	..	IIE (2).
Principles of Electromagnetism	..	..	IIE (3).

* Easter Vacation Course in addition.

(c) *Electrical Engineering :*

Electric Power Engineering	II E (1).
Electric Circuit Theory	II E (2).
Principles of Electromagnetism	II E (3).
Strength of Materials	II M (1).
Heat Engines	II M (2).
Theory of Machines	II M (3).
Drawing and Design	
Engineering Laboratory	
and one of the following :—	
Hydraulics	II M (4).
Production Engineering	II M (5).

Engineering III (Students reading for Honours) :(a) *Civil Engineering :*

Theory and Design of Structures	III c (1).
Public Works Engineering	III c (2).
Soil Mechanics	III c (4).
Drawing and Design	III c (6).
Engineering Laboratory	
and two of the following :—	
*Geodesy and Photogrammetry	III c (3).
Design and Construction of Buildings	III c (5).
Strength of Materials	III m (1).
Mechanics of Fluids	III m (4).
Engineering Production and	
Administration	III m (5).
Electric Machines	III e (1).

(b) *Mechanical Engineering :*

Strength of Materials	III m (1).
Engineering Thermodynamics	III m (2).
Theory of Machines	III m (3).
Drawing and Design	III m (6).
Engineering Laboratory	
and two of the following :—	
Mechanics of Fluids	III m (4).
Engineering Production and	
Administration	III m (5).
Theory and Design of Structures	III c (1).
Public Works Engineering	III c (2).
Electric Machines	III e (1).
Electric Circuit Theory	III e (2).
Applied Electromagnetism	III e (3).
Transmission and Distribution	III e (4).

* Easter Vacation Course in addition.

(c) *Electrical Engineering :*

Electric Machines	IIIE (1).
Electric Circuit Theory	IIIE (2).
Applied Electromagnetism	IIIE (3).
Transmission and Distribution	IIIE (4).
Drawing and Design	
Engineering Laboratory	
and one of the following :—	
Electronics	IIIE (5).
Strength of Materials	IIIM (1).
Engineering Thermodynamics	IIIM (2).
Theory of Machines	IIIM (3).
Mechanics of Fluids	IIIM (4).
Engineering Production and Administration	IIIM (5).

Engineering III (Students reading for Ordinary Degree) :(a) *Civil Engineering :*

Theory and Design of Structures	IIIC (1).
Public Works Engineering	IIIC (2).
Soil Mechanics	IIIC (4).
Drawing and Design	IIIC (6).
and one of the following :—	
*Geodesy and Photogrammetry	IIIC (3).
Design and Construction of Buildings	IIIC (5).
Strength of Materials	IIIM (1).
Mechanics of Fluids	IIIM (4).
Engineering Production and Administration	IIIM (5).
Electric Machines	IIIE (1).

(b) *Mechanical Engineering :*

Strength of Materials	IIIM (1).
Engineering Thermodynamics	IIIM (2).
Theory of Machines	IIIM (3).
Drawing and Design	IIIM (6).
Engineering Laboratory	
and one of the following :—	
Mechanics of Fluids	IIIM (4).
Engineering Production and Administration	IIIM (5).
Theory and Design of Structures	IIIC (1).
Public Works Engineering	IIIC (2).
Electric Machines	IIIE (1).
Electric Circuit Theory	IIIE (2).
Applied Electromagnetism	IIIE (3).
Transmission and Distribution	IIIE (4).

*Easter Vacation Course in addition.

(c) *Electrical Engineering :*

Electric Machines	IIIE (1).
Electric Circuit Theory	IIIE (2).
Transmission and Distribution	IIIE (4).
Drawing and Design	
Engineering Laboratory	
and one of the following :—	
Applied Electromagnetism	IIIE (3).
Electronics	IIIE (5).
Strength of Materials	IIIM (1).
Engineering Thermodynamics	IIIM (2).
Theory of Machines	IIIM (3).
Mechanics of Fluids	IIIM (4).
Engineering Production and Administration	IIIM (5).

Engineering IV :(a) *Civil Engineering :**Three of the following :—*

Theory and Design of Structures ..	IVC (1).
Public Works Engineering	IVC (2).
Geodesy and Photogrammetry	IVC (3).
Soil Mechanics	IVC (4).
Design and Construction of Buildings	IVC (5).
Strength of Materials	IVM (1).

(b) *Mechanical Engineering :**Three of the following :—*

Strength of Materials	IVM (1).
Engineering Thermodynamics	IVM (2).
Theory of Machines	IVM (3).
Mechanics of Fluids	IVM (4).

(c) *Electrical Engineering :**Three of the following :—*

Electric Machines	IVE (1).
Electric Circuit Theory	IVE (2).
Applied Electromagnetism	IVE (3).
Power Circuits	IVE (4).
Communication Circuits	IVE (6).
Radio Engineering	IVE (7).

The work done in the Drawing Office and Laboratories forms an integral part of the Degree courses and, in accordance with University Regulations, will be taken into consideration in the degree examinations.

SYLLABUS OF COURSES

Engineering I

Ic. Civil Engineering

*Civil Engineering :**(a) Building Construction :*

Manufacture, physical and mechanical properties of building materials. Methods of construction in brick-work, masonry and concrete. Foundations. Underpinning. Timbering of excavations. Constructional carpentry, including shoring, centering and shuttering. Floors and roofs.

(b) Public Works Engineering :

General principles of design and construction of retaining walls, dams, arches, roads, railways, bridges, water supply works, sewers and sewage treatment works. Mechanical equipment in Civil Engineering.

Theory of Structures :

Forces in statically determinate framed structures under dead loads. Reciprocal figures for combined wind and dead loads on roof trusses. Three pinned arches and unstiffened suspension bridges. Simple riveted and welded joints.

Surveying :

Chain Surveys. Traverses. Levelling. Tacheometry and subtense surveying. Contouring. Setting out of works and circular curves.

Im. Mechanical Engineering

Mechanical Engineering :

Materials ; Mechanics ; Wire ropes and chains ; Transmission of power belts, ropes and chains ; Elementary theory of heat ; steam generators and accumulators ; steam engines ; steam turbines ; condensers. Internal-combustion engines ; the gas turbine. Principles of refrigeration ; air compressors and motors.

Water flow ; water power ; water turbines and pumps.

Strength of Materials :

Stress, strain and elasticity ; Properties and testing of metallic materials ; Thin cylindrical and spherical

vessels ; Shearing force and bending moment diagrams ; Theory of simple bending ; Deflection of simple beams and cantilevers ; Simple torsion.

IX. Electrical Engineering

Principles of electromagnetism with applications ; Theory of D.C. and A.C. circuits ; Electrical measuring instruments ; Properties of materials.

Drawing Office

Machine Drawing	}	Mechanical and Electrical
Geometrical Drawing		Engineering students.
Machine Drawing	}	Civil Engineering
Building Construction Drawing		students.

Engineering II

IIc (1). Theory and Design of Structures

Bending moments and shearing forces for simple beams with moving loads ; Influence lines for simply supported beams and trusses ; Equivalent uniformly distributed loads. Roof truss 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 concrete beams and columns.

IIc (2). Public Works Engineering

Water Supply :

Rainfall records and sources of water supply ; Construction of reservoirs and wells ; Pipe lines and their fittings ; Water analysis and purification ; distribution and waste prevention.

Sanitation :

Sewerage of rural and urban districts ; Quantity and analysis of sewage ; Methods of purification and disposal ; Pollution and self purification of streams. Refuse collection and disposal and Public Cleansing.

Roads :

Construction and maintenance of modern road surfaces, including macadamised, paved, bituminous, asphalt and concrete roads.

Railways :

Construction and maintenance of railway track.
Theory of points and crossings.

IIC (3). Surveying and Building Science*Surveying :*

Plane table, hydrographical and tunnel surveys.
Reconnaissance and preliminary surveys. Setting out
circular curves. Surveying instruments and their
adjustment. Trigonometrical levelling. Photo-theodolite.
Air surveys and photogrammetry.

Building Science :

Advanced building construction. General principles
of heating, ventilation, air conditioning, sound insula-
tion and auditorium acoustics.

IIM (1). Strength of Materials

Resilience ; Suddenly-applied loads ; Compound
stresses ; Eccentric loading ; Columns and Struts ;
Torsion ; Laminated and coil springs ; Propped beams ;
Built-in beams ; Thick cylinders ; Principal stresses ;
Combined torsion and bending ; Theories of elastic
breakdown ; Fatigue of metals ; Selection of materials
and working stresses.

IIM (2). Heat Engines

Thermodynamics ; Criterion of reversibility ; Ideal
engine cycles ; Theory of the steam engine ; Theory of
the internal combustion engine and turbine. Steam
turbines and condensers.

IIM (3). Theory of Machines

Kinematics and dynamics of machines ; Flywheels ;
Governors ; Balancing ; Belts ; Gears ; Friction of
unlubricated surfaces ; Clutches ; Friction in journal,
thrust and footstep bearings.

IIM (4). Hydraulics

Hydrostatic pressure ; Floating bodies. Principles
of Hydraulics ; Discharge from orifices, notches and weirs ;
Flow in pipes and channels ; Measurement of stream
discharge ; Fluid friction ; Transmission of power by

fluids ; Water hammer ; Impact of water ; Elementary theory of turbines and pumps.

IIM (5). Production Engineering

Functions and scope of Production Engineering ; Metrology ; Systems 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.

IIE (1). Electric Power Engineering

Performance of D.C. and A.C. machines, and of transformers ; Transmission and distribution equipment ; Electric traction and other industrial applications.

IIE (2). Electric Circuit Theory

Further theory of circuits ; Measurements and measuring technique ; The thermionic valve and the basic valve circuits.

IIE (3). Principles of Electromagnetism

The physical theory of the electromagnetic field and its application to the problems of engineering.

Engineering II (Drawing and Design)

The design of bearings ; Couplings ; Clutches ; Spur, bevel and spiral gearing, etc., and engine details.

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 girder, roof truss, steel framed tower and timber trestle. Graphical methods for analysis of simple beams and girders subjected to moving loads.

Planning of individual buildings and development of more advanced detail drawings.

Engineering III

IIIC (1). Theory and Design of Structures

Influence lines for statically determinate structures ; Curved girders ; Rigid frames and Space frames ; Deflection of framed structures ; Stress analysis of statically indeterminate structures by methods of

influence lines, strain energy, moment distribution, slope deflection, column analogy, etc.; Continuous beams and columns; Multi-storey buildings; Struts and laterally loaded columns; Secondary stresses in framed structures; Behaviour of connections in steel frames; Structural welding and design of welded structures; Suspension bridges; Arches; Dams; Theory and design of masonry and reinforced concrete structures; Pre-stressed concrete theory and construction; Plastic theories for design of steel and reinforced concrete structures; Experimental analysis of stresses in frames; Theory of model structures.

IIIc (2). Public Works Engineering

Water Supply:

Estimation of yield from underground wells and boreholes; Storage calculations for impounding reservoirs. Design and layout of purification plants and distribution systems.

Sanitation:

General and detailed design of sewers, pumping stations and complete sewage treatment plants.

Roads:

Soil stabilisation and drainage of road subgrade; Earthworks and mass haul diagrams; vertical curves; road traffic calculations and traffic control.

Railways:

Virtual and momentum gradients. Signalling and safety devices. Curve resistance and compensation. Tunnels and bridges.

Visits:

During the Session visits will be arranged to a number of Public Works in the vicinity and students will be required to present satisfactory reports on the works visited.

IIIc (3). Geodesy and Photogrammetry

Effects of errors in instruments; Triangulation surveys; Base line measurement; Precise levelling; Adjustment of errors in surveying and levelling; Effects of curvature of the earth; Field astronomy, including

observations for latitude, longitude and azimuth ;
Setting out transition curves.

IIIc (4). Soil Mechanics

Soil properties ; Identification and classification of soils ; Soil 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.

IIIc (5). Design and Construction of Buildings

Aesthetic design of engineering structures. Town and country planning requirements. Planning and layout of individual buildings. Design of domes and other special structures. Heating and ventilating. Acoustics and sound resisting construction. Constructional details of steel and reinforced concrete framed structures. Building regulations and by-laws.

IIIc (6). Design and Drawing (Civil)

Maximum and minimum forces in structures subject to moving loads. Design of braced girders, roof trusses, and other types of steel structures ; Design of reinforced concrete and pre-stressed concrete structures ; Design of welded structures. Suspension bridges ; Retaining walls, Dams, Embankments, etc. Preparation of Working Drawings, Bills of Quantities, etc.

Note :—All third year Civil Engineering students must prepare designs and drawings for the Structural Design and Drawing examination, which will be held during the last term of the Session.

IIIm (1). Strength of Materials

Principal stresses and strains ; Strain rosettes ; Strain energy methods ; Shear stress distribution ; Shear deflection ; Principal moments of inertia ; non-uniplanar bending ; Eccentrically loaded struts ; Advanced theory of torsion ; Built-in and continuous beams ; Thick spherical vessels ; Compound thick cylinders ; Methods of pre-stressing ; Beams of large initial curvature ; Hooks and rings ; Stresses due to rotation ; Flat plates ; Photo-elastic stress analysis ; Creep of metals ; Developments in material testing.

IIIm (2). Engineering Thermodynamics

Advanced thermodynamics; Advanced theory of steam engines, steam turbines, internal-combustion engines, internal-combustion turbines, air compressors, air motors. Mechanical production of cold. Heat pumps. Indicators.

IIIm (3). Theory of Machines

Flywheels; Governors; Balancing; Velocity and acceleration diagrams; Centrodes; Theory of film lubrication; Ball and roller bearings; Mechanical vibrations; Vibrographs and torsigraphs; Whirling of shafts; Torsional oscillation of crank shafts; Gyroscopes.

IIIm (4). Mechanics of Fluids

Advanced theory of discharge from orifices, weirs and flumes; Viscous resistance of fluids including pipe flow; Dimensional theory; Principle of dynamical similarity with applications to hydraulic and aerodynamic problems; Theory of water hammer; Non-uniform flow in channels; Model river investigation; Water turbines; Centrifugal pumps; Performance of similar machines; Boundary layer theory.

IIIm (5). Engineering Production and Administration

Designing for economical production; Jigs, tools and fixtures; Inspection; Statistical methods of quality control; Principles of industrial administration; Factory siting and lay-out; Mechanical handling; Materials control; Purchasing and stock control; Production control; Maintenance organisation; Work study; Time and motion study; Personnel organisation; Methods of remuneration; Incentive schemes; Principles of costing; Social aspects of management.

IIIm (6). Drawing, Design and Graphics (Mechanical)

Design of spur and helical, straight and spiral bevel, and worm gears, and the determination of the bearing loads. Selection and mounting of ball and roller bearings; preloading. Limits, fits and tolerances. Selection of

materials and working stresses. Welded joints. Special problems in mechanical design. Detailed analysis of manufacturers' designs.

Velocity and acceleration diagrams for complex mechanisms; Centroides; Balancing of engines; General vibration problems. Inertia stresses in accelerating parts; Whirling speeds of turbine rotors; Critical speeds of crankshafts; Analysis of vibrograph and torsigraph records.

III E (1). Electric Machines

The principles, performance and testing of machines, including more advanced types.

III E (2). Electric Circuit Theory

Transient phenomena in circuits; Circuits with distributed constants.

III E (3). Applied Electromagnetism

Further development of the theory of electromagnetism including electromagnetic waves.

III E (4). Transmission and Distribution

Power transmission line theory and calculations; Circuit interruption and protection.

III E (5). Electronics

Theory of current flow in vacuum and gas-filled tubes; Gaseous conduction and high voltage phenomena; Applications of electronic devices.

Engineering Laboratories

Experimental work in connection with the various classes will be conducted in the Engineering Laboratories throughout the course.

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 specialized 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.

Post-Graduate Courses in Engineering

Facilities are available for advanced study and research in the Departments of Civil, Mechanical and Electrical Engineering. The equipment in all the main laboratories affords opportunity for research work, while a number of smaller laboratories have been equipped with extensive research appliances suitable for individual work in many branches of Engineering. Candidates wishing to read for a higher degree are advised to see the general University Regulations and to consult the Head of the Department concerned.

Time Tables

Time Tables will be published in the Departments at the beginning of each term.

The Institution of Civil Engineers

All Civil Engineering students should aim at ultimately becoming Members of the Institution of Civil Engineers. The Charter of the Institution of Civil Engineers also permits all Mechanical and Electrical students to become Members of the Institution provided the requirements as regards practical training and experience are fulfilled as set out in the By-Laws of the Institution.

The first step is to become a Student of the Institution and for admission to Studentship it is necessary to pass or obtain exemption from the Common Preliminary Examination of the Engineering Joint Examination Board. A list of the exempting qualifications together with full particulars as to the procedure for enrolment in this grade may be obtained from the Secretary of the Institution of Civil Engineers, Great George Street, London, S.W.1.

All Engineering students of this University, who have passed the Common Preliminary Examination or its equivalent, are eligible to apply for admission as a Student of the Institution. After admission they are entitled to attend the meetings and visits of the Yorkshire Association of the Institution of Civil Engineers and to receive copies of the Journal of the Institution. Miller Scholarships and Prizes, value from £10-£120, are

awarded by the Institution for papers read by Students at either the Local Association or at Headquarters.

The Degree of B.Sc. with Honours and the Ordinary Degree in Civil, Mechanical or Electrical Engineering exempt students from Sections A and B of the Associate Membership Examination which is a necessary qualification for the higher grade of Associate Member. All candidates, however, must pass Section C of that examination, and further particulars may be obtained from the Secretary of the Institution.

Every candidate for election into the class of Associate Members must be more than 25 years of age and must fulfil the requirements concerning practical training and experience in accordance with any one of the groups of qualifications set out in the By-Laws of the Institution.

The Institution of Mechanical Engineers

All Mechanical Engineering students should aim at ultimately becoming Members of the Institution of Mechanical Engineers. The first step is to become a Student Member and for admission to this grade of membership it is necessary to pass, or obtain exemption from, the Common Preliminary Examination. Particulars of the exempting qualifications and full information as to the procedure for enrolment may be obtained from the Secretary, The Institution of Mechanical Engineers, Storey's Gate, St. James's Park, London, S.W.1.

In connection with the higher grade of Associate Membership, exemptions from the whole of the appropriate examination (Sections A, B and C) is granted by the Institution to students of this Department who secure the degree of B.Sc. with Honours in Civil, Mechanical or Electrical Engineering.

An Ordinary B.Sc. degree in Civil, Mechanical or Electrical Engineering exempts from Sections A and B. Higher degrees in Engineering exempt from Sections A, B and C.

Election to Associate Membership cannot take place until the candidate is over 25 years of age and has also satisfied the Institution that he has had sufficient

practical experience in mechanical engineering. The intermediate grade of Graduateship of the Institution may be entered pending the acquisition of the qualifications for Associate Membership. Election to Graduateship necessitates passing, or obtaining exemption from, Sections A and B of the Associate Membership Examination.

There is a Local Branch of the Institution of Mechanical Engineers which promotes visits to Engineering establishments and provides lectures on Engineering topics. The meetings and visits are open to all classes of members.

Automobile Division :

Students interested in automobile engineering are recommended to enrol with the Automobile Division of the Institution of Mechanical Engineers.

The Institution of Electrical Engineers

All Electrical Engineering students should aim at ultimately becoming members of the Institution of Electrical Engineers.

The first step is to become a Student Member of the Institution. Full particulars as to the procedure for enrolment in this grade may be obtained from the Secretary of the Institution of Electrical Engineers, Savoy Place, Victoria Embankment, London, W.C.2.

All Electrical Engineering students of this University are eligible for election as Students of the Institution.

The Degree of B.Sc. with Honours and the Ordinary Degree in Electrical Engineering are recognised as educational qualifications for Associate Membership.

The Degree of B.Sc. in Civil and Mechanical Engineering, with or without Honours, confers exemption from Section A of the Associate Membership examination.

There is a local Centre of the Institution. Papers accepted by the Institution are read and discussed at the meetings of the Local Centre. The meetings are open to all classes of members.

There is in addition a Local Students' Section, controlled by a Chairman, Secretary and Committee, elected by

the students themselves, which selects its own papers and arranges its own visits to engineering establishments.

The Institution of Structural Engineers

The Institution of Structural Engineers accepts any Degree in Engineering of this University as exempting from the whole of the Graduateship Examination and the subject "Theory of Structures" in the Associate Membership Examination, provided this subject was taken in the final degree examination. Candidates are required to be examined in the subjects "Structural Engineering Design and Drawing" and "Specification Quantities and Estimates." After passing in these subjects candidates may be elected to Associate Membership upon attaining the age of 25 years, provided the Council of the Institution is satisfied with the extent of the candidate's practical experience.

Students of this University are eligible for election to Studentship of the Institution, and this entitles them to attend local meetings and to receive a copy of the Journal of the Institution.

Further particulars may be obtained from the Secretary, The Institution of Structural Engineers, 11, Upper Belgrave Street, London, S.W.1.

The Institution of Municipal Engineers

The Institution of Municipal Engineers accepts any Degree in Engineering of this University as exempting from the Intermediate Testamur examination and such parts of the Final Testamur examination as the Council of the Institution see fit. After passing this examination, or necessary parts thereof, candidates may be elected to Associate Membership of the Institution upon attaining the age of 23 years, provided the Council is satisfied with the extent of the candidates practical experience.

Students of this University are eligible for election to Studentship of the Institution and this entitles them to attend local meetings and to receive a copy of the Journal of the Institution.

Further particulars may be obtained from the Secretary, The Institution of Municipal Engineers, 84, Eccleston Square, London, S.W.1.

Marine Engineers

The Engineering Department of this University is recognised by the Marine Department of the Board of Trade as an institution in which candidates for Marine Engineering certificates can obtain a portion of their training.

SUPPLEMENTARY COURSES

(A) Courses arranged chiefly for students from the Departments of Fuel, Mining and Textile Industries.

Engineering Introductory

Civil Engineering	ISC
Mechanical Engineering	ISM
Electrical Engineering	ISE

General Engineering IIS

Theory and Design of Structures	IISC(1).
Strength of Materials	IISM(1).
Heat Engines	IISM(2).
Theory of Machines	IISM(3).
Hydraulics	IISM(4).
Electrical Technology	IISE(1).
Applied Electronics	IISE(2).

Laboratory work up to six hours per week together with three hours per week Drawing Office for students taking Theory and Design of Structures.

(B) Courses which are approved in connection with the degree of B.Sc. in General Studies (see Science Prospectus).

Introductory Course :

Three hours per week together with (under special arrangements) drawing office work.

The course covers Civil, Mechanical and Electrical Engineering.

General Courses :

Three lecture hours plus three hours laboratory work (approximately).

Two General Courses in Engineering are offered, each consisting of three subjects selected from the following lists :—

Theory and Design of Structures
Strength of Materials
Heat Engines
Theory of Machines
Hydraulics
Electrical Technology
Applied Electronics.

Candidates taking two General Courses in Engineering will study at least six out of the seven subjects listed.

Students taking either General Course must have passed or been exempted from Engineering Introductory.

Students wishing to take the course in Applied Electronics must have taken, or be taking simultaneously, the course in Electrical Technology or an approved course in Physics.

(C) General Courses in Electrical Engineering, approved for study in conjunction with Physics for the degree of B.Sc. in General Studies.

Electrical Engineering G1, comprising IIE (1), Electric Power Engineering ; IIE (2), Electric Circuit Theory ; IIE (3), Principles of Electromagnetism ; with three hours laboratory work.

To enter upon this course students are required to have passed the examination in the G1 course in Physics.

Electrical Engineering G2, comprising IIIE (2), Electric Circuit Theory ; IIIE (5), Electronics ; and *either* IIIE (1), Electric Machines, *or* IIIE (4), Transmission and Distribution ; with an average of five hours laboratory work.

To enter upon this course students are required to have passed the examination in the G1 course in Physics and in the G1 course in Electrical Engineering, and also either to have passed the examination in the G2 course in Physics or to be taking this course concurrently.

For syllabuses, see pp. 514 and 518.

DEPARTMENT OF MINING

The Department of Mining at the University of Leeds affords excellent facilities for the training of young men who intend to practise the science and art of coal or metalliferous mining or petroleum engineering. Situated in the heart of a mining district where the most up-to-date mining methods are practised and where are found some of the deepest and best equipped modern British collieries, the Department has the cordial support of those actively engaged in directing the collieries and metal mines of the district.

All students have an opportunity of gaining a wide knowledge of the practical application of the principles of mining, so that eventually they will be equipped to take an active part in the direction of mining concerns, whether as general managers, production directors, mine agents, salesmen, managers, surveyors or mining metallurgists, or, alternatively, to act as inspectors of mines under H.M. Government. There are many opportunities for the mining engineer to follow an attractive career in the oil industry, particularly in the work of exploration and exploitation of oilfields. In this connection we have the active support of oil companies. Foreign students are welcomed and every endeavour is made to meet their various requirements.

The well equipped laboratories in the many departments of the University, in particular, the Physical, Chemical, Geological, Metallurgical, Engineering and Mining Laboratories are open to the mining students, who therein gain a scientific foundation upon which is built their knowledge of the science and art of mining.

The staff of the Department is greatly assisted by the Mining Advisory Committee composed of eminent mining and petroleum engineers and scientists. This Committee helps to maintain active contact between the Mining Department and Industry, which contact is of great assistance to students of the University.

The Department receives financial assistance from the National Coal Board and industrial firms.

The courses have been arranged to meet the requirements of those who intend to become :—

1. General Managers, Production Directors, Agents, Managers of Coal Mines, and Planning Engineers.
2. H.M. Inspectors of Mines.
3. Metal Mine Managers and Engineers.
4. Mine Surveyors.
5. Mineral dressing and coal preparation engineers.
6. Petroleum Engineers.

The degree courses are primarily intended for the systematic training of students who can devote at least three years to the study of the scientific principles underlying the practice of the various industries for which they are preparing themselves.

Students are required to supplement the University course by attending at a mine or works to obtain practical experience and arrangements are made to enable this to be done.

Special facilities are provided for postgraduate research work both in the laboratories of the Department and in mines and works outside, and every help is afforded to graduates who, on passing into the industry, find themselves confronted with problems which can be advantageously worked out in conjunction with a well equipped scientific laboratory. Provision is also made to meet the requirements of duly qualified students who wish to take advantage of part of the regular courses of instruction, whilst graduates of other Universities will be admitted as research students.

COURSES OF STUDY

The courses of study are arranged as follows :—

1. B.Sc. Honours in Mining, four years' course.
2. B.Sc. Honours in Mining, three years' course and one year of approved research work.
3. B.Sc. in Mining, three years' course.

4. Courses for the Degree of B.Sc. in General Studies.
5. Diploma in Mining, three years' course.
6. Post Graduate Course in Mineral Dressing and Coal Preparation.
7. Course on Surveying and Mine Surveying.
8. Course on Coal Preparation.

Students entering for the degree course are required to have passed (or obtained exemption from) the examination for Matriculation conducted by the Joint Board of the Universities of Manchester, Liverpool, Leeds, Sheffield and Birmingham.*

Colliery Managers' Certificates of Competency under the Coal Mines Act, 1911

Graduation as B.Sc. in Mining Engineering, or the possession of the Diploma in Mining Engineering of the University of Leeds, has been recognised by the Board of Trade as equivalent to two years' experience at a mine for the purposes of the Colliery Managers' Certificate under the Coal Mines Act, 1911. Further information may be obtained on application to the Secretary to the Board for Mining Examinations, Ministry of Fuel and Power, 7, Millbank, Dean Stanley Street, Westminster, London, S.W.1.

The University of Leeds is an institution approved by the Ministry of Fuel and Power in respect of its Degree of B.Sc. in Mining and Diploma in Mining.

The First-Aid course at the University has been approved by the Ministry of Fuel and Power and is accepted as a suitable qualification from candidates applying to sit for the Colliery Managers' First Class Certificate of Competency Examination.

Surveyors' Certificates under the Coal Mines Act, 1911

The University of Leeds is one of the Institutions approved by the Ministry of Fuel and Power for the purpose of training students for Surveyors' Certificates under the Coal Mines Order, and students who pass

*All inquiries regarding the examination for Matriculation, including applications for exemption, should be addressed to the Secretary to the Board, the Joint Matriculation Board, 315, Oxford Road, Manchester, from whom also a complete Syllabus of the examination may be obtained.

satisfactorily this course are admitted as candidates for the Mines Department Surveyor's Certificate, with two years' experience in Surveying.

The following courses at the University have been approved and enable candidates to obtain exemption from two of the five* years' practical experience ordinarily required:—

1. Honours B.Sc. Degree Course in General Mining.
2. Ordinary B.Sc. Degree Course in General Mining.
3. Diploma Course in Mining.
4. The Course in Mine Surveying.

Union of South Africa

The B.Sc. Honours degree in Mining is recognised as an approved degree under Regulations 297 and 301 (2) (a) of the Mines, Works and Machinery Regulations.

Special Lectures

Lectures are given from time to time by specialists in particular branches of Science, Art and Medicine outside the ordinary mining courses but which are of particular interest to students of the Mining Department. These lectures are not included in the syllabus of each course shown hereafter.

1. Honours B.Sc. Degree Course in General Mining (Four Years' Course)†

This course of instruction is arranged for students who desire to qualify themselves as Mining Engineers, Surveyors, or Assayers, and also for those who intend, in the future, to take charge of mining and prospecting operations or enter the oil industry in the colonies or foreign countries. Students are required to devote the vacations to obtaining practical experience in mines, and they should call upon the Head of the Department, immediately before the Christmas vacation of their first year at the University, to obtain advice regarding the necessary arrangements.

During the first year of the degree course the student will normally attend classes and take examinations in Mathematics, Physics, Chemistry and Engineering.

*Four years for Mine Surveyors,

†Graduation as B.Sc. in Mining has been recognised by the Ministry of Fuel and Power as equivalent to two years' experience at a mine for the purposes of the Colliery Manager's Certificate.

During the second year he will take courses in Engineering (Mechanical and Electrical), and Mathematics.

During the third year he will attend courses in Geology, Fuel and Metallurgy and Assaying, Civil Engineering, Surveying and Mining including Ore Dressing, Coal Cleaning and laboratory work.

In the fourth year he will devote his attention mainly to Mining, Mine Surveying and Geology.

The four years' course will thus include a systematic training in the Science and Applied Science Subjects which are essential to the study of Mining.

The student will qualify for the degree by attendance upon the courses detailed below, and advanced lectures in certain mining and mine surveying subjects and by passing the corresponding examinations.

Students are strongly urged to obtain a reading knowledge of French and German before the end of their course.

Syllabus

		Hours per Week.		
		Lectures.	Laboratory.	Drawing Office or Field Work.
<i>First Year</i>				
Mathematics Intro.	..	4	—	—
Chemistry Intro.	..	3 (and 1 tutorial)	5	—
Physics Intro.	..	3	4	—
Engineering Intro.	..	3	—	5
Mining and Surveying	..	1	—	3
<i>Second Year</i>				
Mathematics E1, E2	..	6	—	—
Engineering IIs	..	7	12	—
<i>Third Year</i>				
Geology for Engineers	..	3	4	—
Mining and Surveying	..	3	12	—
Fuel and Metallurgy	..	2	3	—
Engineering Ic	..	1	—	—
<i>Fourth Year</i>				
Mining and Surveying	..	8	6	—
Geology	..	1	4	—
Economic Geology	..	2	—	—
Industrial Economics	..	1	—	—

Students who have reached a sufficiently high standard in Mathematics, Physics and Chemistry in the General Certificate of Education examination may be admitted to read for the honours B.Sc. degree in three years.

Syllabus

		Hours per Week.		
		Lectures.	Laboratory.	Drawing Office or Field Work.
<i>First Year</i>				
Mathematics E1 and E2		6	—	—
Engineering I ..	..	4	—	5
Fuel and Metallurgy ..	..	2	3	—
Mining F1A and F4 ..	..	3	—	—
Surveying .. ..	..	1	—	2
<i>Second Year</i>				
Geology for Engineers ..	..	3	—	—
Mining and Surveying ..	..	3	—	2
Engineering IIs .. ..	..	6	6	3
<i>Third Year</i>				
Mining and Surveying ..	..	9	9	—
Industrial Economics ..	..	1	—	—
Geology .. ..	..	1	4	—
Economic Geology ..	..	2	—	—

2. An alternative Four Years' Course for the Honours Degree

(The fourth year being devoted to approved research.)

This course is designed to meet the needs of students, who, having entered for the Ordinary Degree Course (see 3 below), satisfy the Head of the Department of their capacity to read for Honours in Mining, and are allowed, after completing the Ordinary Degree Course, to spend a fourth year in approved research with a view to qualifying for the Honours Degree.

Syllabus

Approved research work.
Lectures in advanced mining.

3. Ordinary Degree Course

During the first year of the degree course the student will normally attend classes and take examinations in Mathematics, Physics, Chemistry and Engineering.

During the second year he will take courses in Engineering (Mechanical and Electrical), Geology, Surveying, Fuel, Metallurgy and Assaying and Mining

accumulators, acetylene lamps, lamp rooms and organisation, care and maintenance of lamps. Coal face illumination, mains lighting, pneumatic lighting sets. Photometry and illumination, candle power—its measurement and expression.

Lambert's cosine law. Mean spherical candle power, polar curves. Rousseau & Russel diagrams. Illumination surveys. Coal Mines Act and General Regulations relating to Mine Lighting.

Ventilation.

The free atmosphere, composition, physical and chemical properties. Metabolism and respiration.

Mine atmospheres, sources of pollution including blowers and outbursts of gas, standards of ventilation, changes of temperature, pressure, humidity and velocity, mine gases, the inflammability of firedamp, ignition by flame, heated surfaces, sparks, explosives and electrostatic discharge, gas explosions, the detection of noxious and inflammable gases, gas analysis. Mine dusts, types, sources, measurement, suppression.

Hot and Deep Mines, Health and Safety

Rock temperatures, moisture and heat, geothermic gradient, automatic compression, regulation of body temperature, importance of salt, Kata thermometer, wet and dry bulbs, air cooling, method of ensuring essentials for good health, occupational diseases, septic infections, dermatitis, pneumokoniosis, teno-synovitis, ankylostomiasis, jaundice, nystagmus, silicosis, gas poisoning, miners' colic, malaria, scheduled diseases.

B.

Fires

Underground fires, distinguishing between (a) open fires and (b) spontaneous combustion.

(a) Causes and methods of prevention, investigation. Organisation for dealing with fires, digging out, building off, completely sealing off.

Haulage and Transport

Outline of evolution of haulage systems. Hand haulage—animal haulage—application and limitations. Rope haulage systems—gravity, endless, main and tail, direct, balanced direct, reversible endless, etc. Haulage engines—main and secondary haulage types, methods of drive, gearing, ropes, belts, etc. Brakes and control gear, electric motors. Calculation of H.P. of engines and motors. Locomotive haulage. Types, characteristics, diesel, compressed air, electric battery, electric trolley wire, electric reel and cable. Calculation of drawbar pull and battery capacity, etc. Mine cars, tubs, rails, track laying, rope attachments, couplings, etc. Safety appliances, catches, re-railers, signals, track brakes, etc. Shuttle-car haulage, scraper loading. Conveyors—face, secondary and main road; loading stations.

Pumping

Friction and flow of fluid through pipes. Reciprocating pumps, types, construction, application. Discharge curves from single acting and double acting, simplex, duplex and triplex pumps. Flow characteristics of direct acting pumps. Work done by pump. Effect of acceleration and frictional resistance. Slip, coefficient of discharge, cavitation, water hammer. Air vessels—work saved by air vessel on suction and delivery lines. Valves—types—selection and use. Pulsating steam pumps. Air lift pumps. Centrifugal pumps; velocity triangles, pressure generated. Single-stage and multi-stage types. Balancing devices. Characteristic curves. Parallel and series operation. Selection, installation, maintenance, Rotary pumps—special types.

Advanced lectures on the subjects (F₂) Mining Plant and Machinery will be given to honours students.

Lighting, Ventilation, Explosions, Safety and Health (F₃)

Lighting

A.

Review of history and development of Miners' lamps. Modern flame lamps—oils for use in lamps. Electrical safety lamps, cap lamps, alkaline and lead—acid

Metalliferous Mine Development.—Factors influencing the level interval and distance between raises ; shape, size, position with respect to the orebody and methods of advancing development ends.

Mining Methods.—Common features including access, breaking, support and transportation. Methods of stopping adopted in narrow, wide and massive orebodies.

Mining Plant and Machinery; Transmission of Power (F₂)

Ventilation

Mechanics of Ventilation, Natural Ventilation, Large Mine Fans, Auxiliary Fans. Characteristic curves. Air pressure surveying.

Transmission of Power

Compressed air, electricity, comparative usefulness and cost ; pipes, joints, valves, receivers, tests. Flame-proof electrical apparatus ; Installation of shaft and underground cables.

Face Equipment

Coal cutters, drilling machinery, loaders, various types and their application.

Winding

Construction, use, care, maintenance, examination and testing of wire ropes. Rope attachments, capels, clamps, shock absorbers, etc. Detaching hooks, headgear-keps. Headgears—types and construction ; timber, steel, concrete ; elements of design. Steam winding engines—simple, cross compound, tandem compound. Valve gear for steam winders. Electric winders—A.C. systems. Ward Leonard control. Winding drums, types and construction. Brakes and brake engines, types, construction and operation. Overwind and overspeed control gear. Systems of winding—cage—skip. Decking arrangements.

LECTURE COURSES

Principles of Mining (F1)

A.

Prospecting

Coal and mineral formations, faults and disturbances. Coal fields; coal for various purposes, sampling, prospecting outfits and camps.

Boring

Reasons for boring; rigid rods, free-falling cutters, rope methods and methods involving use of water and mud, rigs, drills, including diamond bit; cores; linings. Boring against water.

Sinking

Ordinary methods, temporary and permanent linings. Lighting, ventilation, winding and shot-firing. Cementation and congelation processes, piling, drop shafts, caisson methods. Dealing with water.

Supports

Object, materials used. Timber diseases, preservation. Support of roads and working places.

B.

Breaking Ground and Blasting

Methods of using explosives; detonators; fuses. Composition of explosives, shot-firing precautions. Wedges, hydraulic wedges, pneumatic picks, drilling machines, Cardox, Hydrox.

Methods of Working

Coal.—Accessibility, and provision for retreat of workmen. Influence of shape of deposit. Locality and cost of power. Flat seams, steep seams and thick deposits. Bord and pillar, longwall, roof control. Special methods, including single and double stalls, square work, rearers, opencast methods, working under the sea, etc.

Second Year.

Maths. E1	..	..	1	paper.
Maths. E2	..	..	1	..
Engineering IIs	..	..	5	papers.

Third Year.

Geology for Engineers	..	..	1	paper and practical.
Fuel and Metallurgy	..	..	1	..
Engineering Ic	..	..	1	..
Mining F1A	..	..	} 1	..
.. F3A	..	..
Surveying F5	..	..	1	..
Mining F4	..	..	1	..

Fourth Year.

Economic Geology	..	..	1	paper.
Structural Geology	..	..	1	..
Mineralogy	..	..	1	..
Applied Economics	..	..	1	..
Mining F1B	..	..	1	..
.. F2	..	..	} 2	papers.
.. F3B	..	..
.. F7 and F8	..	..	1	..
Mine Surveying F6	..	..	1	..
Mining ..	..	..	} 1	advanced paper.
Surveying F5	..	..
Mine Surveying F6	..	..

Where the honours course is completed in three years, the examinations will be :—

First Year

Mathematics E1 and E2	2	papers.
Engineering I ..	2	papers and Drawing Office paper.
Fuel and Metallurgy ..	1	paper.

Second Year

Engineering IIs	..	5	papers.
Mining F1, F3A and F4	2	..	
Geology for Engineers	1	..	
Surveying F5	..	1	..

Third Year

As for Fourth Year Honours.

Degree of Doctor of Philosophy (Ph.D.)

The Degree of Ph.D. may be conferred upon graduates of this and other approved Universities who complete a course of advanced study and research extending over a minimum period of two years in the Department, and also satisfy the other conditions laid down for this degree.

Degree of Master of Science (M.Sc.)

The Degree of M.Sc. may be conferred upon graduates of this and other approved Universities who complete a course of advanced study and research extending over a minimum period of one year in the department and also satisfy the other conditions laid down for this degree.

EXAMINATIONS

<i>First Year.</i>		Ordinary Degree	
Maths. Intro. . .	..	2	papers.
Chemistry Intro. . .	..	1	paper and practical.
Physics Intro. . .	..	1	" "
Engineering Intro. . .	..	1	paper and Drawing Office paper.
<i>Second Year.</i>			
Engineering IIs . .	..	2	papers.
Geology for Engineers	..	1	paper and practical.
Fuel and Metallurgy	..	1	" "
Mining F1A . . . .	..	1	"
" F3A . . . .	..	
Surveying F5 . .	..	1	" "
<i>Third Year.</i>			
Economic Geology . .	..	1	paper and practical.
Applied Economics . .	..	1	" "
Engineering Ic . .	..	1	" "
Mining F1B . . . .	..	1	" "
" F2 . . . .	..	2	"
" F3B . . . .	..	
" F4 . . . .	..	1	" "
" F7 and F8 . .	..	1	" "
Mine Surveying F6 . .	..	1	" "

Honours Degree

First Year

As for Ordinary Degree.

- (2) Spend at least six weeks of the long vacation preceding the period of study at work in a mineral dressing or coal preparation plant ;
- (3) Satisfy the examiners appointed by the University in the examination held at the conclusion of the course.

Syllabus

	Hrs. per week.
Mineral Dressing Lectures	5
Mineral Dressing Laboratory	6
Mining F7	1
Mining F1B.	2
Economic Geology	1
Coalfield Geology	1
Metallurgy Introductory	1
Metallurgy A	1
Metallurgy (Non-ferrous Process) ..	1
Chemical Engineering IA	1
Gas Engineering III	1
Surveying	3
Colloid Chemistry	1

7. Course on Surveying and Mine Surveying

This course of one day per week for two years includes lectures on Surveying and Mine Surveying, office work, and field and underground work in Surveying, particulars of which are given in subsequent pages.

To meet the convenience of external students, lectures and practical instruction in surveying are given on Tuesday (First Year) and Thursday (Second Year).

Fee, £8 8s. od. each year.

8. Course on Coal Preparation

This course is arranged for those who are at present engaged or intend to be engaged in the preparation of coal for the market.

It consists of lectures dealing with the analysis of coal and the various methods employed in the cleaning and disposal of coal. The lecture course will be supplemented by a laboratory course and visits to coal preparation plants.

II. At the end of the Course—

- (a) 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 B.Sc.
- (b) To translate into English a passage of French or German relating to the principal subject of the Diploma Course. A foreign student who can show that he has received a good general education will be exempted from this language test.

III. A diploma may be granted upon the degree course provided that the subjects studied for the degree include those prescribed for the Diploma, and that the other conditions are complied with.

A student producing evidence of adequate previous scientific or practical training may, upon application to the Senate, be exempted from a portion of the normal course and may qualify for the diploma upon a shortened period of study.

A diploma with distinction may be awarded to a student when work is adjudged to be of outstanding merit.

6. Post Graduate Course in Mineral Dressing and Coal Preparation

The post-graduate course in Mineral Dressing is primarily intended for those who have graduated in Mining, Chemical Engineering, Metallurgy or Engineering who wish to follow careers in Mineral Dressing and Coal Preparation as research workers, plant designers or operators.

The duration of the course will be one session.

Candidates for the Diploma must :—

- (1) Give satisfactory attendance at lectures, laboratories and visits to mineral dressing and coal preparation plants.

*General Courses :***Mining G1A—Surveying***

2 hours a week and 2 hours Drawing Office or Field Work.

Students taking the General Course in Surveying should have passed or be exempt from Introductory Courses in Mathematics, Physics and Geology.

Mining G1B—Applied Geophysics

Students taking the General Course in Applied Geophysics should have passed or be exempt from the following examinations :

- Introductory Mathematics
- Introductory Geology
- Introductory Physics and Physics G1.

Mining G1C—Mineral Dressing

2 hours a week and 6 hours Practical.

5. Diploma Course in Mining Engineering† (Three Years' Course)

This course is arranged for those who have not qualified for entry upon courses leading to an initial degree.

Candidates for the Diploma in Mining Engineering are required :—

I. During the Course—

- (a) To attend the same course as candidates for the Ordinary B.Sc. Degree in Mining.
- (b) To present themselves for any departmental examinations that may be held in the subjects forming any part of their course 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 course.

* 3 weeks Practical Field Course to be attended at the end of the session. All field notes, calculations and a plan to be submitted for examination.

†The possession of the Leeds University Diploma in Mining Engineering has been recognised by the Ministry of Fuel and Power as equivalent to two years' experience at a mine for the purposes of the Colliery Managers Certificate.

During his third year he will mainly devote his attention to Mining, including ore dressing and laboratory work, Mine Surveying and Economic Geology.

The student will also be required to devote the vacations to obtaining practical experience in mines.

The three years' course will thus include systematic training in Mathematics, Physics, Chemistry, Engineering and Geology in addition to the study of the special branch of Applied Science, namely Mining.

The student will qualify for the B.Sc. degree by attendance upon the courses detailed below and by passing the corresponding examinations; he will also be required to translate satisfactorily a passage from a modern language.

Syllabus

		Hours per Week.	
	Lectures.	Laboratory, Drawing Office or Field work	
<i>First Year.</i>			
Mathematics Intro. ..	4	..	—
Chemistry Intro. ..	3 (and 1 tutorial)	..	5
Physics Intro. ..	3	..	4
Engineering Intro. ..	3	..	5
Mining and Surveying	1	..	3
<i>Second Year.</i>			
Engineering IIs ..	4	..	9
Geology for Engineers	1	..	2
Fuel and Metallurgy	2	..	3 (1½ Terms)
Surveying	2	..	3
Mining	1	..	3 (1½ Terms)
<i>Third Year.</i>			
Economic Geology ..	1	..	—
Industrial Economics ..	1	..	—
Mining and Surveying	11	..	14
Engineering Ic ..	1	..	—

4. Courses for the Degree of B.Sc. in General Studies

Introductory Course :

	Lectures	Drawing Office or Field Work
Surveying* ..	1 hour per week	.. 2 hours per week.
Principles of Mining	1 hour per week	

3 weeks Practical Field Course to be attended at the end of the session. All field notes, calculations and a plan to be submitted for examination.

Explosions and Coal Dust.

Gas explosions, coal dust explosions—history, flame and its propagation, inflammation of coal dust, stone dust, efficiency of other incombustible material in preventing coal dust explosions, distribution and action of dusts, investigations following explosions, propagation in roof breaks, general theory of firedamp explosions, comparisons with other countries.

Spontaneous Combustion

Scientific study of causes, pyrites, oxidation of coal, fusain, durain, clarain, vitrain, liability to spontaneous combustion, methods of working, shaft pillars, methods of detection—practical, scientific.

Rescue and Safety

Central rescue stations, colliery brigades, requirements after serious accident, explosion or fire, investigations, self-contained breathing apparatus, smoke helmets, equalising tubes, gas masks.

Preparation of Minerals and Coal (F4)

Economics of mineral dressing. Washing and hand sorting; comminution; laboratory sizing, industrial screening and classification; gravity concentration; flotation, flocculation and dispersion; separation of solids from fluids. Miscellaneous methods of concentration.

Surveying (F5)

Introduction and general remarks on the aims and objects of surveying.

Principles underlying the methods of linear and angular measurements used by the surveyor.

Elements of projection. Ordnance survey maps, description of their types and application to mine surveying.

Accessories, devices, parts and attachments common to many surveying instruments. Consideration of their uses, objects, causes of failure, design, improvement, testing and adjustment.

Levelling instruments and instruments used for the determination of the relative position of points vertically with regard to one another or a given datum; their testing and adjustment.

Instruments used for the measurement of angles; use, testing and adjustment.

Instruments depending on the earth's magnetism; their testing and adjustment.

Fundamental considerations concerning the form and size of the earth together with the consideration of geographical and astronomical relations as far as they affect the mine surveyor.

Principles underlying triangulation surveying; methods of measuring base lines and triangulation angles.

Correlation of triangulation surveys to the Ordnance Grid.

Determination of the direction of astronomical and magnetic meridians.

Methods of traversing on the surface.

Levelling and contouring.

Tacheometry and plane tabling.

The measurement of areas and volumes.

Setting out of railways, railway sidings, curves, gradients, roadways, levels, engine foundations, cuttings, embankments, pipe lines and engineering work generally.

Office computations.

Photogrammetry — optics. Stereoscopy — mapping. Photographic mosaics. Oblique photographs — mapping. Hydrographic surveying.

Advanced lectures on the subjects of Surveying F5 will be given to honours students.

Mine Surveying (F6)

Traversing underground.

Methods of surveying through inclined workings using the auxiliary telescope.

Connection of surface and underground surveys by various methods, their relative accuracy and suitability in various cases.

Setting out shafts, drifts, cross-cuts and raises, and other underground excavations.

Methods of measuring underground excavations.

Subsidence—general considerations. Theories. Precautions against subsidence. Effects of subsidence observations in various countries.

Mineral reserve calculations including the determination of block values and tonnages.

Instruments used in the surveying of boreholes and their application.

The solution of problems in mine surveying.

Errors in observed data, their amount, influence and elimination.

Advanced lectures on the subjects of Surveying F6 will be given to honours students.

Mining Law (F7)

History, Royalties, leases. Mining Law in Britain and Commonwealth countries. Coal Mines Act. Income Tax.

Mineral Valuation

Mineral Reserves, classes and statement. Mining and beneficiation costs. Mineral markets. Actuarial computations. Composition of reports.

The Science of Administration

Principles of organisation. Organisation as a scientific study. Line and staff diagrams. Organisation in large undertakings. Colliery organisation and its application in a nationalised coal industry. Colliery planning and development.

Scientific Management

Principles. Time and mechanical studies. Statistical analysis. Standardisation. Study office practice. Training of mine labour. Safety organisation.

Applied Geophysics (F8)

General principles, objects and application of methods.

Magnetic

Dip needle, magnetometers, variometers, construction, tests and adjustments. Uses and applications to field problems of location, hade and direction, etc.

Electrical

Megger "Earth Tester," construction, tests and adjustments. Application to field problems. Self potential, equipotential and resistivity methods.

Gravitational

Torsion balance, construction, tests and adjustments. Application to field problems, faults, underground structures, etc. Gradiometer and its use.

Seismic

Seismograph, construction, use and adjustments.

Longitudinal, transverse and Rayleigh waves.

Refracted, reflected and direct waves.

Technique of shot-firing. Photographic recording, etc.

Refraction and reflection methods.

Field Work

Magnetic, electrical, gravitational and seismic observations will be carried out in the field to train students in geophysical technique and interpretation of records.

Advanced lectures on Geophysics F8 will be given to the honours students.

First-Aid Course

First Year Course

The structure of the body and general plan of its systems; the skeleton; bone structure and function; fractures in general; fractures in detail; injuries of joints, muscles and ligaments; shock; circulatory system; hæmorrhage; inflammation—including the healing of wounds; treatment of wounds, antisepsis, dressings; burns, scalds and electrical burns, minor injuries.

Second Year Course

Nervous system, unconscious states and their early treatment ; injuries to the head and eyes ; injuries to the chest and spine ; injuries to the abdomen and pelvis ; abdominal emergencies ; respiratory system ; asphyxia, drowning, choking and strangulation ; gas poisoning ; poisoning ; emergencies due to extremes of temperature, bad ventilation, etc., i.e., climatic conditions ; industrial diseases and their prevention ; Caisson disease.

Tropical Hygiene

The life history of the malaria parasite in man and in the mosquito ; the life history of the mosquito ; anophles maculatus ; malaria control ; chemical control ; tropical diseases ; site selection ; value and limitation of drugs in the prevention of malaria ; anti-malarial measures ; houses ; sanitation ; water.

Equipment

The equipment of the Department has been designed and installed to serve three purposes :

- (a) To supplement the general training received by the student in the other departments of the University, and direct it to Mining applications.
- (b) To provide apparatus and instruments for the investigation of problems at the mines, and for testing the consumption of power and general efficiency of haulage, winding, pumping, ventilating, and coal washing plants.
- (c) To provide appliances for the detailed study and practical application of methods of ore dressing

The equipment therefore embraces the following :

*For Investigations and Tests at Mines***Apparatus necessary for**

- Air compressor and compressed air transmission tests.
- Complete boiler trials.
- Complete ventilation tests.
- Pump efficiency tests.
- Steam engine tests.
- Sampling and analysis of mine gases, fuels, &c.

For Laboratory Work.

The following apparatus is provided :

- Air compressor and metering devices.
- Apparatus for analysis of mine air.
- Apparatus for analysis of coal and mine dusts.
- Apparatus for determination of dust concentrations in mine air.
- Apparatus for coal washing tests, including froth flotation.
- Balances for assay work.
- Bomb and other calorimeters.
- Centrifugal pump.
- Experimental fans and gallery, with various modern forms of manometers and air meters.
- Furnaces for assay work.
- Hygrometers.
- Kata thermometers.
- Microscopes.
- Ore dressing plant, including Blake Marsden crusher, Sturtevant screen faced mill, Stokes' ball mill and classifier, Raymond pulverisor, Denver-Dillon screens, rotary filters and thickeners, Halkyn jig, sand and slime tables. Mackintosh Denver & Fagergren flotation cells, F. and C. heavy medium separation unit, magnetic separator
- Photometric bench and photometers.
- Mine rescue apparatus.
- Rock drills.
- Safety lamps and gas testing chambers.
- Westphal balance, Redwood viscometer, Pensky-Marten oil tester, etc.

For Surveying.

The apparatus includes :

- Wild T.3 Geodetic theodolite.
- Tavistock theodolite.
- Micrometer theodolite.
- Four modern mining theodolites equipped with three tripod system.
- Three theodolites of various patterns.
- Precise magnetic declination and correlation instruments.
- Three modern Miners' dials.
- Five levels including precise and reversible levels; one geodetic level fitted with optical plate micrometer, levelling staves.
- Plane table outfits, Binoculars, chronometer.
- Instruments for linear measurements including an invar tape for comparisons and precise measurements.
- Hand instruments for prospecting and preliminary surveys including box sextant, Abney levels, prismatic compasses, Brunton's mine transit, etc.

Equipment for shaft plumbing.
Eidograph and pantograph for the enlargement and reduction of mine plans.
Planimeters, computing scale, Fuller's slide rule, tacheometrical slide rule.
Calculating machines of various types.
British and Continental mathematical tables.
Stereoscopes for examination of aerial photographs.
Copying machine.
Nautical sextant.
Wingfield standard compass.

For Geophysical Surveying.

Vertical force magnetic variometers.
Megger earth testers.
Bosch generator.
Seismograph.
Oscillographs.
Torsion balances.
Worden Gravimeter.

Laboratory Work

The laboratory course includes the following:

Analysis of mine atmospheres, flue gases, producer gas, etc.
Assaying of ore and metallurgical products.
Calorimetry.
Coal washing tests.
Commercial analysis of fuel.
Carbonisation tests.
Examination of mine dusts.
Measurement of air flow.
Fan efficiency tests running (1) singly, (2) in series, and (3) in parallel.
Photometry.
Practical methods of mine gas detection.
Practical work in ore dressing, including tests on the efficiency of the various appliances used.
Practice in use of various forms of rescue apparatus.
Pyrometry.
Testing of air compressors: transmission of compressed air; air consumption of rock drills.
Oil testing.

The laboratory instruction is supplemented by testing the efficiencies of boilers, fans, air-compressors, etc., at collieries.

Office Work

The work in the Drawing Office will include the following :—

1. Calculations and plotting of triangulation and other surveys and the solution of practical exercises connected with work and problems in surveying.
2. The preparation and reproduction of mine plans and sections.
3. The drawing and design of mining machinery and plants and mine structures.

The Office Work will be based upon the lectures on Mining Engineering, Surveying and Mine Surveying given during the session.

Every student will be held responsible for the instruments, apparatus or machinery with which he is working, and will be required to make good any damage caused by him. A Deposit of £2 will be required to cover the cost of stationery supplied, laboratory note books, incidental expenses for the carriage and insurance of instruments and hire of camp equipment. The student's liability is not limited to the amount of the deposit.

In the case of occasional students and of students taking additional or extra work in the Laboratory or in Surveying, the fees will depend on the time spent on such work.

Field and Underground Work in Surveying

During the session, at times to be arranged, instruction will be given in field work and underground surveying. Students will be required to go through a systematic course of work in the following :—

1. The use of surveying instruments.
2. Determination of the constants of instruments.
3. Errors of instruments ; their elimination and adjustment.
4. Methods of securing the degree of accuracy necessary in particular kinds of work.

5. Adjustment of observations.
6. Astronomical observations for azimuth.
7. The survey of the surface of a mineral property including reconnaissance, triangulation, traversing, levelling, tacheometry, and detail work.
8. The survey of the underground excavations of a mineral property, including traversing and detail work.
9. The connection of surface and underground surveys.
10. Curve-ranging and setting-out work in general.
11. Preliminary geophysical work by magnetic, electrical, seismic and gravimetric methods.

During the course, each student is required to spend a period of at least six weeks in the field. A practical course in surveying and mine surveying is held during the summer vacation, for a period of three weeks. The work is carried out at a coal or metalliferous mine, and includes triangulation, correlation of surface and underground surveys, underground traversing and surface detail surveying. The field observations are reduced and plotted and each student prepares a complete plan of a mining area.

Vacation Practical Work

The diary of practical training and reports will be completed and should be certified by the management as the student's own work. These will be submitted to the Department for approval at the end of the summer vacation.

Mining Excursions

During the session excursions are made to mines and also to works where mining machinery and appliances are manufactured. The objects of these excursions are to give students an insight into practical methods, mining practice generally and the writing of reports.

University Mining Society

The membership of this Society includes both present and past students. It forms one of the most attractive features of the department, its principal function being to arrange for the reading of papers on mining subjects by acknowledged experts. All papers read during the session are published in the Society's own journal.

Colloquium

During their final year students are given valuable training in presenting papers on mining subjects for discussion among themselves.

Departmental Library

Apart from the Brotherton library of the University where every authoritative book on all technical subjects is obtainable, there is a Departmental Library, which is kept up to date in mining literature. All the principal mining journals and periodicals published in this country, America, South Africa, France and Germany are also accessible to students.

Scholarships and Grants

Valuable scholarships are awarded by various educational authorities enabling students to attend the courses given in the Mining Department. Particulars of these may be obtained from the authorities concerned or from the Head of the Department. Grants are made from time to time to enable post-graduate students to carry out research work.

Scholarships have been founded by the National Coal Board, the Shell Petroleum Company, Briggs Collieries Limited (Dr. Walter Hargreaves Scholarship) and Messrs. Richard Sutcliffe Limited. These are awarded from time to time, after interview, and are available to candidates who have satisfied the matriculation requirements. For further details see Scholarships Prospectus.

Students are advised to apply for student membership of one of the following professional associations :—

The Institution of Mining Engineers ;

The Institution of Mining and Metallurgy.

Advice on the choice of institution may be obtained from the Head of the Department.

Meetings of the Midland Institution of Mining Engineers and the Yorkshire Branch of the National Association of Colliery Managers are held from time to time in the Department.

DEPARTMENT OF COAL GAS AND FUEL INDUSTRIES

WITH
METALLURGY

This Department of the University was established in 1907 under the name of the Department of Fuel and Metallurgy, and was the first of its kind in the British Universities. The buildings now occupied were erected and equipped in the year following out of funds provided by the West Yorkshire Coal-owners, supplemented by a special donation of £1,000 by Messrs. George Bray & Co. Ltd. At the death of the late Sir George Livesey in 1910, a fund was raised by the Institution of Gas Engineers to provide a memorial to him, and this was applied to the endowment of the Chair filled by the Head of the Department. The work of the Department is carried out with the help of an Advisory Committee known as the Coal Gas and Fuel Industries (Livesey Professorship) Committee. Through the generosity of the late Mr. Henry Woodall, the department has since been enlarged by the donation of an additional laboratory and experimental gas plant which forms a permanent memorial to the late Sir Corbet Woodall. In 1941, and again in 1943, the Joint Standing Finance Committee of the National Gas Council, the Institution of Gas Engineers, and the British Commercial Gas Association made generous donations to provide equipment for the expanding needs of the Department.

In 1944 Mr. Charles Brotherton made provision for a Brotherton Lectureship in Chemical Engineering and equipment in this field; several concerns have also assisted with special plant. The Charles Brotherton Chemical Engineering Laboratory was opened in 1946.

In 1945 Mr. Charles Brotherton made a further provision of £55,000 towards the erection of a new building when this becomes possible.

More recently (in 1951) the Department has benefited from the generosity of the Woodall Duckham Companies who provided £1,000 per annum, under a seven-year covenant, for the purchase of modern equipment. This

gift, to be known as the "F. B. Richards Equipment Fund," was made on the retirement of Mr. F. B. Richards to commemorate his long period of successful service as Managing Director of the Company.

Courses of Study

The Department now consists of the four divisions of Gas Engineering, Chemical Engineering, Ceramics and Metallurgy, and provides separate courses of study leading to Honours degrees in each of these subjects. The Honours courses are normally of four years' duration, but a more general course in Fuel Science is also available. This course is of three years' duration, and leads to the degree of B.Sc. in Applied Science ; it is designed to provide a broad training for entry into the operational side of a variety of industries. The Honours courses are of greater content and are more specialised in nature ; they are arranged to provide training for responsible positions in selected industries.

In all cases the student first receives a grounding in Mathematics, Physics, Chemistry and Engineering, and then proceeds to study the particular branch of applied science which is his choice. The main lecture courses in the applied science subjects deal with the principles underlying the industrial processes concerned, importance being also attached to acquiring general knowledge of the design and construction of plant, and of the chemical engineering methods appropriate to these industries. Actual practice is dealt with more particularly by outside lecturers.

The three-year course in general Fuel provides a broad training in the production and utilization of solid, liquid and gaseous fuels, together with selected courses in the allied subjects of gas and chemical engineering, ceramics and metallurgy.

The courses in Gas Engineering deal chiefly with the manufacture and distribution of coal gas, by-product coking processes, the production and application of gaseous fuels for heating, lighting and power purposes,

as well as the properties and uses of solid and liquid fuels generally.

The Chemical Engineering courses provide a broad training particularly to meet the needs of those likely to be responsible for plant design and control in the chemical industry generally.

The courses in Metallurgy deal with the general methods for the concentration and preliminary treatment of ore deposits, design and control of furnaces used in the metallurgical industries, principles of ferrous and non-ferrous process metallurgy, general properties of metals and alloys, physical metallurgy and metallography.

The courses in Ceramics are concerned mainly with the manufacture and properties of Refractory Materials, but include the principles on which the production of pottery, glazed ware, building materials and special ceramics are based. They are designed to provide a basic training for entry into any branch of the ceramic industry.

Post-graduate courses.—Courses leading to the Post-Graduate Diploma of the University are available in Gas Engineering, Chemical Engineering, Fuel Technology, Ceramics, and in Metallurgy. The Department receives special support from the University Grants Committee to provide post-graduate courses, primarily in Fuel, for graduates in pure science and for suitably qualified entrants from industry. Details of these courses are given in later pages.

Research Work.—The Department co-operates with the Gas Council in research supported by the Council and guided by a Joint Research Committee of the Council and the University. A group of research chemists is working under this scheme on several problems of the gas industry, at present dealing with (a) the structure and stability of flames, and the mechanism of gaseous combustion, (b) the transfer of energy from flames to immersed solids, (c) the identification and estimation of constituents of town's gas and liquid products by infrared spectroscopy and (d) the nature of gas-works' effluent.

The Department also co-operates closely on research matters with the British Coke Research Association, the British Coal Utilization Research Association, the Coal Tar Research Association, the British Ceramic Research Association, the British Iron and Steel Research Association and the National Physical Laboratory.

The general equipment of the various sections of the Department also affords special facilities for original research in (a) the carbonisation and gasification of coal, (b) metallurgy, (c) refractory materials, (d) high pressure gas reactions, (e) fuel and combustion problems generally and (f) the design of semi-scale plant, etc.

Private Industrial Research.—Arrangements may be made whereby individuals or industrial concerns may use the laboratories of the Department for their own investigations and if necessary by their own employees. The requisite conditions for such work may be obtained on application to the Head of the Department.

B.Sc. Courses

Before commencing the degree course students must be qualified for admission, in accordance with the regulations of the Joint Matriculation Board of the Universities of Manchester, Liverpool, Leeds, Sheffield and Birmingham. A special examination is held by the Board to meet the cases of those who have been engaged in Commerce and Industry for at least three years and have reached the age of nineteen years. (See the Syllabus of the Joint Matriculation Board obtainable from the Secretary, 315, Oxford Road, Manchester.)

During the first year each degree student will normally attend classes in Mathematics, Physics, Chemistry, Engineering and Fuel.

In subsequent years the Courses will be differentiated according as the student is preparing for the degree in General Fuel (see I below), or for the Honours Courses in Gas Engineering (II), Chemical Engineering (III), Ceramics (IV) or Metallurgy (V).

The student will qualify for the B.Sc. degree by satisfactorily attending the courses and passing the requisite examinations.

All students are expected to spend up to two unbroken months of the long vacation in approved works in order to acquire an insight into works practice. They are recommended to spend the vacation at the end of the first session in engineering shops, and at the end of later sessions in gas works, the coke industry and metallurgical, refractory brick or other chemical engineering plants.

I. B.Sc. Degree Course in General Fuel (3 years)

First Year Course				Hours per week.
Mathematics Introductory	..	..	..	4
Physics Introductory	..	..	..	3
Physics Laboratory	..	..	..	3
Chemistry Introductory	..	..	..	3
Chemistry Laboratory	..	..	..	9½
Engineering Introductory (3 hrs. lectures, 3 hrs. drawing)	..	..	..	6
Fuel Science I	..	..	..	I
Applied Economics	..	..	..	I
Second Year Course				
Chemistry Gp	..	..	..	3
Chemistry (and Refractories) laboratory	..	..	..	9
*Engineering IIs	..	..	..	6
Engineering laboratory (Eng. Dept.)	..	..	..	3
Engineering Drawing (Fuel Dept.)	..	..	..	3
Metallurgy Introductory	..	..	..	I
Ceramics Introductory	..	..	..	I
Process Instrumentation I	..	..	..	I

*This course comprises :—Strength of Materials IIsm(1) ; Theory of Structures IIsc(1) ; Heat Engines IIsm(2) ; Hydraulics IIsm(4) ; Electrical Engineering IIse(1) and IIse(2).

Third Year Course				
*Pure Science subjects as selected	..	..	..	3
*Applied Science subjects as selected	..	..	..	2
Fuel Science II	..	..	..	I
Gas Engineering I	..	..	..	I
Chemical Engineering IIIa (Heat transfer)	..	..	..	I
Chemical Engineering IV	..	..	..	I
Process Instrumentation II	..	..	..	I
Mineral Dressing	..	..	..	I
Furnace Types	..	..	..	I
Fuel Laboratories	..	..	..	15

*In this year there is some freedom for choice of pure and applied science subjects. These courses will be selected by the Head of the Department according to the student's needs.

In addition to the above lectures, students may also attend, during the second and third years, the special lectures given in the department by outside lecturers in the following or similar subjects :—†

- Gas Engineering VI .. Manufacture of Coal Gas.
 Gas Engineering VII .. Principles of Gas Distribution and Utilisation.
 Gas Engineering VIII .. By-Product Coking Processes.

At the end of the first or second year of the General Fuel Course, students who have passed the examinations at a sufficiently high standard may, with the permission of the Senate, transfer to an Honours course if they so wish.

Honours B.Sc. Courses

To read for Honours will normally require four years' residence. In Gas and Chemical Engineering a student cannot complete his course in less than four years unless his qualifications at entry are such that he may be exempted from attendance at the first year courses in Mathematics, Physics, Chemistry and Engineering.

In Metallurgy, a student may be able to complete his course in three years if in the Higher School Certificate or equivalent examination he has reached the standard required by the Senate for exemption from the Introductory courses in Mathematics, Physics and Chemistry. The same may also apply *exceptionally* to Ceramics students, but in all cases students are advised whenever possible to spend four years on their Honours course.

II. Honours B.Sc. Course in Gas Engineering

First Year Course.—as for General Fuel (see previous page)

Second Year Course

	Hours per week
Physical Chemistry Gp	3
Organic Chemistry Go	3
Physical and Organic Chemistry Laboratory ..	12
Engineering Drawing (Fuel Dept.)	3

†This list is subject to variation, either by substitution or addition, according to the arrangements for special lecture courses which may be in vogue during any particular session or sessions.

	Hours per week.
Mathematics E ₁	3
Gas Engineering I	1
Metallurgy Introductory	1

Third Year Course

Chemical Thermodynamics F ₂ '	3
Engineering IIs (as for General Fuel)	6
Engineering Laboratory	3
Chemical Engineering IIIa (Heat Transfer)	1
Process Instrumentation I	1
Fuel Science II	1
Fuel Laboratory	12

Fourth Year Course

Gas Engineering II, III, IV, V (Honours Courses)	5
*Gas Engineering VI, VII, VIII	1
Mineral Dressing	1
Process Instrumentation II	1
Refractory Materials II	1
Research Principles and Methods	1
Furnace Types	1
Colloquium	1
Gas Engineering Laboratory	15

Students may also take one of the following:—
Mathematics E₂, Physics F₁, Chemical Engineering IIIb,
or other approved courses.

* Special courses given by outside lecturers, part of which may be taken during the third year.

III. Honours B.Sc. in Chemical Engineering

First Year Course—as for General Fuel (see above)

Second Year Course

	Hours per week.
Physical Chemistry Gp	3
Organic Chemistry Go	3
Physical and Organic Chemistry Laboratory	12
Mathematics E ₁	3
Mathematics E ₂	3
Engineering Drawing (Fuel Dept.)	3

Third Year Course

Chemical Thermodynamics F ₂ '	3
Physics F ₁	3
Physics Laboratory	3

	Hours per week.
Engineering IIs (as for General Fuel)	6
Engineering Laboratory	3
Chemical Engineering Ia	I
Chemical Engineering IIIa	I
Chemical Engineering IV	I
Metallurgy Introductory	I
Ceramics Ib	I
Process Instrumentation I	I
Fuel and Ceramics Laboratory	6

Fourth Year Course

Chemical Engineering Ib (Unit Operations) ..	2
Chemical Engineering II	I
Chemical Engineering IIIb (Heat Transfer) ..	I
Chemical Engineering V (Plant Design) ..	3
Mineral Dressing	I
Research Principles and Methods	I
Process Instrumentation II	I
Colloquium	I
Chemical Engineering Laboratory	15

Suitably qualified students may also take more advanced Mathematics (E3 and E4).

IV. Honours B.Sc. Course in Ceramics

First Year Course—as for General Fuel (see above)

Second Year Course

	Hours per week,
Physical Chemistry Gp	3
Chemistry and Fuel Laboratories	12
Mathematics E1	3
Mathematics E2	3
Engineering II sm (I) and II SE (I)	2
Ceramics I	2

Third Year Course

Chemical Thermodynamics F2'	3
Inorganic Chemistry Gi	3
Chemistry Laboratory	6
Geology	3
Mineral Dressing	I
Chemical Engineering IIIa (Heat Transfer) ..	I
Process Instrumentation I	I
Metallurgy Introductory	I
Ceramics IV	2
Fuel, Ceramics and Geology Laboratories ..	9

Fourth Year Course

Ceramics Honours Courses V, VI, VII	3
Ceramics VIII (Laboratory Demonstration Course)	3

	Hours per week.
Furnace Types	I
Process Instrumentation II	I
Research Principles and Methods	I
Colloquium	I
Ceramics Laboratory	15

Students may also take optional courses selected from the following :—Chemical Microscopy, Phase Equilibria, X-Ray crystallography or other approved courses.

V. Honours B.Sc. Courses in Metallurgy

Two courses (A and B) are available and are designed primarily to meet the needs of students preparing either for industrial management (course A) or for research and investigational work (course B). The latter course also provides for different combinations of the pure science subjects.

First Year (both Courses)

	Hours per week.
Mathematics Introductory	4
Physics Introductory	3
Physics Laboratory	3
Chemistry Introductory	3
Chemistry Laboratory	9½
Metallurgy A	I
Fuel Science I	I

Second Year Courses

A Course

Mathematics E1	3
Physics G1	3
Physics Laboratory	6
Physical Chemistry Gp	3
Chemistry and Fuel Laboratories	9
Furnace Types	I
*Metallurgy A or H	I
*Fuel Science I	I

B1 Course

Mathematics E1	3
Physics G1 and Laboratory	9
Chemistry Gp and Laboratory	12
Engineering II SM (I)	I
*Metallurgy A or H	I
*Fuel Science I	I
Fuel Laboratory	3

*Unless taken in the first year.

Hours per week

B2 Course

Mathematics E1, E2 or General Gra	..	..	6
Physics G1 and Laboratory	..	..	9
Engineering IISM (1)	..	..	1
*Metallurgy A or H	..	..	1
*Fuel Science I and Laboratory	..	..	4

B3 Course

Mathematics E1, E2 or General Gra	..	..	6
Chemistry Gp and Laboratory	..	..	9
Engineering IISM (1)	..	..	1
*Metallurgy A or H	..	..	1
*Fuel Science I and Laboratory	..	..	4

Third Year Courses

A Course

Chemical Thermodynamics F2'	..	..	3
Engineering Introductory	..	..	4
Engineering Drawing	..	..	3
Metallurgy Laboratory	..	..	3
Metallurgy H	..	..	3
Applied Economics..	..	..	1
Process Instrumentation I	..	..	1

B(1) Course

Mathematics E2	..	..	3
Physics G2 and Laboratory	..	..	9
Chemistry Gp	..	..	3
Metallurgy H and Laboratory	..	..	6

B(2) Course

Mathematics E3, E4, or General G2a	..	..	6
Physics G2 and Laboratory	..	..	9
Metallurgy H and Laboratory	..	..	6

B(3) Course

Mathematics E3, E4 or General G2a	..	..	6
Physics G1 and Laboratory	..	..	9
Metallurgy H and Laboratory	..	..	6

Fourth Year Courses

A Course

Metallurgy H and Laboratory	..	..	..
Engineering IISM (1), IIS E (1)	..	..	2
Process Instrumentation II	..	..	1
Refractory Materials III	..	..	1
Chemical Engineering IIIa	..	..	1
Research Principles and Methods	..	..	1

*Unless taken in the first year.

B Course

	Hours per week.		
Metallurgy H and Laboratory
Theoretical Metallurgy
Refractory Materials III	I
Chemical Engineering IIIa	I
Research Principles and Methods	I

In addition to the above, students must attend during the third and fourth years the special lectures in Metallurgy given in the Department by outside lecturers, as well as the section of Gas Engineering VI dealing with By-Product Coking Processes.

VI. Diplomas and Degree Courses for Post-Graduate Students

Post-graduate courses of one, two or three years duration are available and are designed to provide graduates in pure Science or Engineering, or non-graduates whose qualifications have been accepted by the Senate in lieu of a degree, with systematic training in advanced technology. The two-year and three-year courses include full-time research work, the one-year course consisting solely of advanced study. Dependent upon his qualifications, the post-graduate student would be required to take some or all of the following courses :—

First year (A) :—Preliminary training in technological subjects, with additional pure science and engineering as necessary.

Second year (B) :—Advanced study in technology (based on the fourth-year Honours Courses).

Third Year (C) :—Further advanced study and research in the particular field chosen.

Well qualified graduates would normally be awarded the post-graduate Diploma after one year's attendance on course B, and after passing the appropriate examinations. By attending the two-year course of B and C, such candidates would normally be eligible for the award of the degree of M.Sc., after passing the requisite examinations and presenting a thesis on their research work.

Non-graduates would normally take the three years' course (A, B and C) leading to the degree of M.Sc., or the two years' course (A and B) leading to the post-graduate Diploma.

Such courses are available in Fuel Technology, Gas Engineering, Chemical Engineering*, Ceramics and in Metallurgy.

Ph.D. Course

The Degree of Ph.D. will be awarded to graduates of this and other approved Universities who complete a course of advanced study and research extending over at least two years in the Department and also satisfy the other conditions laid down for this Degree.

VII. Supplementary Courses

Introductory Subjects

The following may be offered as Introductory Subjects for the Degree of B.Sc. in General Studies, or for the Degree of B.Sc. in Applied Science.

- Fuel Introductory and Metallurgy Introductory (2 lectures per week) plus three hours laboratory ;
- or Fuel Introductory and Ceramics Introductory (2 lectures per week) plus three hours laboratory.
- or Metallurgy Introductory and Ceramics Introductory (2 lectures per week) plus three hours laboratory.

General Subjects

Courses which may be offered as General (2 year) Courses for the Degree of B.Sc. in General Studies are as follows :—

- The appropriate Introductory course, followed by—
Fuel II and Gas Engineering I (2 lectures) plus four hours laboratory ;
- or Metallurgy H (3 lectures) plus three hours laboratory ;
- or Ceramics (Refractory Materials) II and III plus four hours laboratory.

*For the post-graduate Courses in Chemical Engineering a minimum of two years is normally required.

" Additional Subjects " for Honours Degrees in Special Studies

The following courses may be offered as Additional Subjects for the Degree of B.Sc. in Special Studies—

Fuel and Metallurgy.—Fuel Introductory and Metallurgy Introductory.

Fuel and Refractory Materials.—Fuel Introductory and Ceramics Introductory.

Metallurgy and Ceramics.—Metallurgy Introductory and Ceramics Introductory.

Special Courses for Engineering Students

Special courses in Metallurgy and in Chemical Engineering are offered for Honours B.Sc. students in Engineering. Details will be given separately.

Diploma of the Institution of Gas Engineers

A graduate of the University of Leeds in Gas Engineering or in General Fuel* who wishes to take the Diploma of the Institution of Gas Engineers will not be required to take the written examination for that Diploma. He will, however, be required (a) to produce evidence of satisfactory professional experience, (b) to present either a thesis according to the Regulations of the Institution or a recently published work of his own, and (c) to submit to an oral examination. For further details, applications should be made to the Secretary of the Institution of Gas Engineers, 17, Grosvenor Crescent, London, S.W.1.

Institution of Civil Engineers

A graduate of the University of Leeds in Gas Engineering with Honours wishing to become a member of the Institution of Civil Engineers will be exempted from Sections A and B of the Associateship Examination. Graduates with the Degree in General Fuel* will be exempted from Section B only of the same examination. In all cases exemption from Section B includes exemption from "Engineering Drawing." For further details application should be made to the Secretary, The Institution of Civil Engineers, Great George Street, Westminster, S.W.1.

* Recognition of the Degree in General Fuel Science is under negotiation with the Institutions concerned.

Institute of Fuel

Graduates in Gas Engineering and General Fuel will be exempted from the requirements in Section B of the Education Scheme of the Institute.

SYLLABUS OF LECTURE COURSES

I. Fuel Introductory

One hour a week throughout the session.

This course is intended for students of Science and Technology who wish to acquire a general knowledge of fuel and ancillary subjects. An elementary knowledge of chemistry is essential on taking this course.

The formation, composition, properties and testing of natural fuels. The carbonisation process and its products. Gas works and coke-oven plant. Blue and carburetted water-gas, producer gas, blast-furnace gas, natural gas and oil gas. The measurement of temperature in works practice. Steam raising. Recuperation and regeneration in furnaces. Furnace types. Refractory materials.

Fuel Science I

One hour per week throughout the session.

A general course on the properties, distribution and sampling, analysis and testing, preparation and utilization of solid, liquid and gaseous fuels.

Fuel Science II

One hour per week.

A more detailed course on the utilization of solid, liquid and gaseous fuels. Principles of steam raising; types of plant employed and reactions involved. Gasification and synthesis processes. Domestic heating.

Gas Engineering I

One hour per week.

A more detailed course on the properties of solid, liquid and gaseous fuels. The thermal and chemical balances of industrial fuel processes.

Gas Engineering II—The physical properties of gases

One hour per week.

The physical properties of gases and vapours ; principles of measurement. Treatment of gases by solvents and absorbents. Flow of gases through pipes.

Gas Engineering III—Coal Science

Two hours per week.

The origin, nature and properties of coal and coal seams. Petrology, physical structure, chemical constitution and classification of coal. Mineral matter associated with coal. The coking mechanism. Coal as a chemical. The evaluation of coal and coal seams.

Gas Engineering IV—The Chemical Properties of Gases

One hour per week.

The chemical kinetics and thermodynamics of reactions involved in fuel and other industrial processes.

Gas Engineering V—Flame and Combustion

One hour per week.

Fundamental aspects of combustion, including thermochemistry, slow combustion and spontaneous ignition, structure of flames, radiation from flames, flame temperatures, flame spectra, burner problems, combustion characteristics, surface combustion, gaseous explosions.

The following three Courses (VI to VIII inclusive) will be given by specially appointed lecturers.

A special prospectus is issued at the end of the first term and is obtainable on application to the Registrar.*

Gas Engineering VI—The Manufacture of Coal Gas

A special course of 16 lectures during the *second* term in *alternate* sessions.

*These courses are open to persons not registered as day students and will normally be given at 2 and 3.30 p.m.

A. Carbonization within the Gas Industry.

Six Lectures.

- (1) The balance between coal gas, carburetted water gas and peak load gas. The raw material requirements of gas manufacture. Assessment of gas making results. The hydrocarbon enrichment value.
- (2) Choice of calorific value. Fuel requirements of carbonizing plants. Producer design and operation. Waste heat recovery.
- (3) Refractories. Drying out, lighting up and letting down settings. Scurfing routine. Hot patching of retorts.
- (4) Carbonization in continuous vertical retorts.
- (5) Carbonization of static charges in horizontal retorts, intermittent vertical chambers and coke ovens. Retort charging machinery.
- (6) Coal and coke handling. Coke screening. General works layout.

B. Water Gas Practice.

Two Lectures.

General description of plant and recent developments of water gas technique. Theoretical consideration of the water gas reactions. Carburetting. Factors determining the operation of the plant. Control of plant. Recent developments in complete gasification.

C. Gas Purification Practice.

Six lectures.

- (1) Nature of impurities in crude coal gas and factors affecting their formation. General outline of purification processes. Preliminary treatment of gas in collecting mains. Theory of condensation.
- (2) Types of condensers. Water supply for cooling, use of water cooling towers. Types of exhausters. The extraction of tar and tar fog from gas.

- (3) The recovery of ammonia from gas. Equilibrium data for ammoniacal liquor. Types of washing plant. Theory of the multistage washer. The efficiency of a washer bay.
- (4) The removal of hydrocyanic acid from gas. The removal of hydrogen sulphide by dry methods, particularly by iron oxide. The reactions involved in purification by iron oxide, the selection of oxides, the design of purifiers, and their operation.
- (5) The removal of hydrogen sulphide by liquid processes. The concentration of ammoniacal liquor. The removal of naphthalene from gas. The recovery of benzole and toluole and the removal of organic sulphur compounds by oil washing. The theory of oil washing.
- (6) Benzole recovery and sulphur removal by active carbon. Sulphur removal by catalytic methods. The dehydration of gas. The occurrence of gum in gas. The formation of hydrogen sulphide in gas holders.

D. Economics of the Gas Industry.

Production, distribution and service costs. By-products and their influence upon revenue. Price of gas in relation to sales. Capital requirements and depreciation charges ; replacement of existing assets. Financial structure of the industry. Administrative charges.

E. Refractory Materials.

Two lectures.

The refractory requirements of the Carbonizing Industries ; the principal properties of silica, silaceous and fireclay bricks. Durability of refractories in carbonizing plant. Review of progress made with gas-plant refractories during the last twenty years.

F. Disposal of Waste Liquors Produced in Gas Works and Coke Ovens.

Two lectures.

Composition of ammoniacal and spent liquors, methods of analysis, oxygen absorption, influence of type of plant, quantities for disposal. Preliminary treatment, phenol recovery, ammonium chloride recovery. Disposal by discharge to sewers, legal aspect, principles and methods of sewage disposal, effect of crude and spent liquor on sewage purification, ways of facilitating disposal. Disposal by discharge to streams, effect on fish life. Disposal by evaporation, plants, and costs. Other methods of disposal.

Gas Engineering VII—The Utilisation of Fuels—Solid and Gaseous

A series of ten lectures during the second term in alternate sessions.

The Distribution of Gas.

Two lectures.

- (1) Low pressure systems : layout and design—type of mains and joints—mainlaying practice—services and service connections—tracing leaks and repairs to mains.
- (2) Re-inforcement of low-pressure systems : (a) high-pressure gas : (b) local boosters : (c) district holders—low and high pressure. Pressure control and governors.

Industrial Gas Practice.

Two lectures.

Industrial gas burner equipment and control systems. Practical application to various types of industrial equipment.

Domestic Gas Appliances.

Two lectures.

General considerations with particular reference to the performance of domestic gas appliances with different qualities of town gas. Development in the design of gas cookers, gas fires and water heaters.

Domestic Solid Fuel Appliances.

Two lectures.

General considerations of advances in design and performance of domestic appliances using all types of solid fuel.

Centralised Heat Supply.

Two lectures.

Development of centralised heat supply.

Gas Engineering VIII—By-Product Coking Processes

A special course of eight lectures during the *second* term in *alternate* sessions.

Historical development of coking. Choice and preparation of coals. Description of typical ovens and their controls. Treatment of crude gas, manufacture of sulphate of ammonia and concentrated ammonia liquor. Recovery and rectification of benzole and toluole. Use of coke oven gas for public supply and chemical manufacture.

Process Instrumentation.

Part I—Measurement of Process Variables

Principles and practice of the measurement of industrial process variables including pressure, temperature, fluid flow, liquid level, gas analysis and calorimetry, specific gravity of liquids and gases, electrometric measurements. Servo-operated recorders, telemetering.

Part II—Automatic Process Control

General theory of automatic control systems, step-function and frequency response analysis applied to process control. Analysis of methods and apparatus used in industrial process control. Application engineering with reference to typical processes such as furnace operation, distillation, etc. Centralisation graphic panels.

Each course one lecture per week, plus one additional lecture per week during first or second term.

Furnace Types

(See Ceramics VII)

Research Principles and Methods

One hour per week.

The principles of research and methods of laboratory and larger-scale investigation. Treatment of experimental data; types of distribution, tests of significance, analysis of variance, regression analysis and the design of experiments.

Chemical Engineering Ia

One hour per week.

An introduction to the principal unit operations of Chemical Engineering.

Chemical Engineering Ib

Two hours per week.

Study of Unit Operations and design of plant for the following: Size reduction. Mechanical, magnetic and density separation. Industrial use of phase relationship distillation, gas absorption, crystallisation, liquid-liquid extraction. Evaporation. Drying. Refrigeration. Liquefaction of gases. Filtration. Mixing. Instruments. Flow sheets.

Complementary laboratory work (18 hours per week).

The above unit operations will be studied on semi-plant scale.

Chemical Engineering II

Special course, to be arranged.

The fabrication of chemical engineering plant.

Chemical Engineering IIIa

One hour per week.

An introduction to the principles of heat transfer and practical applications of heat transfer calculations. Principles of pre-heating; recuperation and regeneration; insulation. Theory and practice of radiant heating processes.

Chemical Engineering IIIb

One hour per week.

A more advanced treatment of the theory of heat transfer and its applications.

Chemical Engineering IV

One hour per week.

Basic Chemical Industries.

Chemical Engineering V

Three hours per week.

A lecture and demonstration course on the design of chemical plant.

Ceramics Introductory

One hour per week.

This first-year course provides an introduction to Refractory Materials and Ceramics in general. It deals with the manufacture and properties of the principal refractory materials and clay products, including pottery, glazed ware, electrical porcelain and chemical stone ware.

Ceramics I

Two hours per week.

An introductory course for Honours Students, dealing with the history and economics of the Industry and the distribution and mineralogy of raw materials.

Ceramics Ib

One hour per week.

An introduction to ceramics and refractory materials, with special reference to chemical engineering materials, including lutes, putties, acid-resisting cements and plastics.

Ceramics II (Refractory Materials)

One hour per week.

This course is of principal interest to students of Fuel and Gas Engineering and those intending to enter allied chemical industries such as the manufacture of glazed or enamelled ware. It deals with the raw materials

available and their manufacture into the products used in the fuel, metallurgical, cement, glass and chemical industries. Chemical and physical testing. Behaviour of refractory materials in service. The manufacture and use of high temperature insulating materials.

Ceramics III (Refractory Materials)

One hour per week.

A more detailed treatment of the properties and manufacture of refractory materials used in the metallurgical industries is made in this course, which is intended mainly for candidates for the B.Sc. degree in Metallurgy with Honours and for the post-graduate Diploma in Ceramics. The design and construction of metallurgical furnaces and the choice of refractories. Chemical and physical properties and service behaviour of silica, fire-clay, magnesite, chrome-magnesite and dolomite bricks. Monolithic furnace linings. Properties and testing of moulding sands.

Ceramics IV

Two hours per week.

A detailed treatment of the principles underlying the behaviour of raw materials when processed and the production and properties of ceramic products.

Ceramics V

One hour per week.

A detailed study of the structures and properties of the component minerals in ceramic raw materials. Changes on firing considered from the structural standpoint and their relation to the properties of the products.

Ceramics VI

One hour per week.

The properties of ceramic products of all types.

Ceramics VII—Process Ceramics

One hour per week.

Methods of fabrication and firing. Principles of glazing and glaze fit. Kilns and furnace types. The design, application and service behaviour of refractories.

Ceramics VIII

Three hours per week.

The physical properties of ceramics; physical, chemical and microscopical techniques of investigation (Laboratory demonstration course).

Metallurgy Introductory

One hour per week.

The Metallurgy of the metals of commercial importance, dealt with from the point of view of their use in engineering.

Metallurgy A

One hour per week.

A general Introduction to Metallurgy.

Metallurgy (Theoretical)

Two hours per week.

Selected topics in the physics and chemistry of metals.

Metallurgy H

A series of eight lecture courses, each of one hour per week, given in the second, third and fourth years.

The extraction and fabrication of metals, their physical and mechanical properties. Laboratory work extending to a total of 15 hours a week during the course.

Department Colloquium

There will be a weekly colloquium held in the Department on Thursdays, at 4 p.m. for the discussion of questions relating to the technology of gases, fuel, metallurgy, chemical engineering and refractory materials and for the review of the current literature of those subjects.

Departmental Laboratories

These are equipped to provide for teaching and research in the subjects included in the work of the Department. There is a well-equipped workshop with

skilled mechanics in charge. A departmental library and museum are available, together with facilities for reading and drawing. In addition to the general laboratories, there is the Corbet Woodall laboratory equipped for experimental work on a larger scale, including plant for carbonisation tests. The Charles Brotherton Chemical Engineering Laboratory, opened in 1946, makes provision for experimental chemical engineering work.

The laboratories will be open during the session from 9 a.m. to 1 p.m. and from 2 p.m. to 5 p.m., except on Saturday afternoons.

The practical instruction covers the following :

Fuel, Gas Engineering and General Subjects

- (1) Analysis and testing of solid and liquid fuels.
- (2) Analysis of gases. Combustion characteristics of gaseous fuels.
- (3) Preparation, compression and liquefaction of gases. Use of high pressure gas.
- (4) Chemical and physical examination of tars.
- (5) Examination of raw materials and by-products of the manufacture of coal gas, coke and producer gas.
- (6) Examination of water for steam-raising and other industrial uses.
- (7) Pyrometry : thermoelectric, resistance, radiation and optical.
- (8) Calorimetry, photometry, radiometry. The study of fuel-using appliances.
- (9) Measurement of the flow of gases and the transmission of heat.

Metallurgy

- (1) Analysis of ores, slags, mattes, alloys, and other metallurgical products ; spectrographic and absorptiometric analysis.
- (2) Macro- and micro-examination of metals and alloys.

- (3) Heat treatment of steel and certain non-ferrous alloys.
- (4) Tensile, fatigue and hardness measurements of metals and alloys.
- (5) Rolling and drawing of metals and alloys.
- (6) Metallographic and thermal examination of metals and alloys, the effects of hot and cold work, and heat treatment on the microstructure and physical properties of metals and alloys. Photomicrography.
- (7) Foundry work.

Ceramics and Refractory Materials

- (1) Chemical analysis of refractory materials.
- (2) Physical testing ; determination of refractoriness, reversible and permanent thermal expansion, thermal conductivity, mechanical strength at high temperatures.
- (3) The macro- and micro-structure of refractory products.
- (4) Properties of heat insulating materials.
- (5) Determination of the constitution of clays and minerals by thermal analysis.
- (6) Properties and testing of moulding sands.
- (7) Effect of slags on refractory materials.
- (8) Determination of particle size-distribution in the sub-sieve range.
- (9) Experimental amplification of the Ceramics V, VI and VII Courses (for Honours and post-graduate students).

Chemical Engineering

Semi-industrial study of :—

1. Heat Transfer.
2. Batch and Continuous Filtration.
3. Batch and Continuous Drying.

4. Single and Multiple Effect Evaporation.
5. Distillation.
6. Crystallisation by evaporation and by cooling.
7. Refrigeration.
8. Centrifugation.
9. Size Reduction and Separation.

Special courses for outside students in any of the above subjects may be provided by arrangement with the Professor.

Students will also be encouraged to make themselves acquainted with the researches which are being carried out in the Department, the results of which will, at convenient intervals, be explained.

Each student will be furnished with a separate working table and will be required to provide himself with a regulation set of apparatus. Special apparatus may be obtained on loan, subject to such conditions as may be prescribed by the Professor.

Students will be held liable for any damage arising from careless or unauthorised use of departmental equipment.

TEXTILE INDUSTRIES

Endowed by the Worshipful Company of Clothworkers
of the City of London

The Department comprises the following sections :

- (a) Woollen Yarn Manufacture.
- (b) Worsted Yarn Manufacture (English and Continental systems).
- (c) Designing, Weaving, and Textile Manufacturing.
- (d) Finishing of Textile Fabrics.
- (e) Textile Testing.
- (f) Research.

Each technical section is equipped with the necessary machinery for demonstrating the various processes of manufacture. These sectional plants, besides being used for teaching purposes, are employed in connection with the research work which is undertaken by the staff and advanced students. To promote post-graduate research work Fellowships and Scholarships are offered by the University and other bodies.

Courses of Study

The courses of instruction are designed to meet the requirements of

- (a) Controllers of industry
- (b) Inside Managers (Combing, Spinning, Weaving and Finishing)
- (c) Textile Designers
- (d) Merchants
- (e) Research Workers.

Although students are admitted for shorter periods, the normal courses of study extend over three years, and in some cases, over four years. The following are the principal courses of study :

- (A) Honours Degree of B.Sc. in Textile Physics.
- (B) Honours Degree of B.Sc. in Textile Chemistry.
- (C) Honours Degree of B.Sc. in Textile Engineering.
- (D) Ordinary and Honours Degrees of B.Sc. in Textile Industries.
- (E) Ordinary Degree of B.Com., with Textile Industries as a principal subject.

- (F) Degree of B.A. in Textile Design.
- (G) Post-Graduate Diploma in Textile Industries.
- (H) Diploma in Textile Industries, awarded principally for technological work.

The courses for the Honours Degree of B.Sc. extend over four years, except in the case of students who may be excused attendance at the Introductory (first year) Courses in Mathematics, Physics and Chemistry, on account of a high standard attained in the General Certificate of Education at the Advanced level. Depending on the section of the industry for which they are intended, students may choose either Physics, Chemistry or Engineering as the main subject ancillary to Textile Technology, and details of the three options are given below. It should, however, be noted that Honours in Textile Industries may also be obtained after graduation in the Ordinary Degree of B.Sc. in Textile Industries (Section D below).

A.—Honours Degree of B.Sc. in Textile Physics.

First Year

Mathematics Introductory
Physics Intro.
Chemistry Intro.
General Engineering I
Textile Industries
Preliminary
Raw Materials I

Second Year

Mathematics E₁ and E₂
Physics G₁
Woollen Yarn Production I
Worsted Yarn Production I
Cloth Structure I
Loom Study I
Colour Study I
Cloth Analysis I

Third Year

Physics G₂
Woollen Yarn Production II
Worsted Yarn Production II
Cloth Structure II
Loom Study II
Textile Calculations
Cloth Finishing I
Textile Testing
Textile Chemistry II

Fourth Year

Raw Materials II
Woollen Yarn Production III
Worsted Yarn Production III
Mathematical Theory of
Spinning
Cloth Structure III
Complex Textiles
Colour Study II
Cloth Finishing II
Cloth Analysis II
Mill Design and Management
Dyeing IIIr
Textile Physics III

*B.—Honours Degree of B.Sc. in Textile Chemistry.**First Year*

Mathematics Introductory
 Physics Intro.
 Chemistry Intro.
 General Engineering I
 Textile Industries
 Preliminary
 Raw Materials I

Second Year

Inorganic Chemistry Gi
 Organic Chemistry Go
 Worsted Yarn Production I
 Cloth Structure I
 Loom Study I
 Cloth Analysis I

Third Year

Physical Chemistry Gp
 Woollen Yarn Production I
 Worsted Yarn Production II
 Cloth Structure II

Loom Study II
 Textile Calculations
 Colour Study I
 Textile Testing
 Textile Chemistry II

Fourth Year

Raw Materials II
 Woollen Yarn Production II
 Woollen Yarn Production III
 Worsted Yarn Production III
 Mathematical Theory of
 Spinning
 Cloth Structure III
 Complex Textiles
 Colour Study II
 Cloth Finishing I
 Cloth Finishing II
 Cloth Analysis II
 Mill Design and Management
 Dyeing IIIr
 Textile Physics III

*C.—Honours Degree of B.Sc. in Textile Engineering.**First Year*

Mathematics Introductory
 Physics Intro.
 Chemistry Intro.
 General Engineering I
 Textile Industries
 Preliminary
 Raw Materials I

Loom Study II
 Textile Calculations
 Colour Study II
 Cloth Analysis I
 Textile Testing
 Textile Chemistry II
 Textile Physics III

Second Year

Mathematics E1 and E2
 Engineering II S.
 Worsted Yarn Production I
 Cloth Structure I
 Loom Study I
 Colour Study I

Fourth Year
 Raw Materials II
 Woollen Yarn Production II
 Woollen Yarn Production III
 Worsted Yarn Production III
 Mathematical Theory of
 Spinning
 Cloth Structure III
 Complex Textiles
 Cloth Finishing I
 Cloth Finishing II
 Cloth Analysis II
 Mill Design and Management
 Dyeing IIIr

Third Year

Woollen Yarn Production I
 Worsted Yarn Production II
 Cloth Structure II

Before the end of their course, students will be expected to obtain a reading knowledge of French and German, and their knowledge of these languages will be tested by means of an examination consisting of passages for translation into English. The use of dictionaries will be allowed at this examination, in which candidates will be required to satisfy the examiners.

D

(1) Ordinary Degree of B.Sc. in Textile Industries

First Year

Mathematics Introductory
Physics Intro.
Chemistry Intro.
Textile Industries
(Preliminary)
Raw Materials I
Woollen Yarn Production I
Worsted Yarn Production I

Second Year

Two of the following:—

- (1) Mathematics E₁ & E₂
- (2) Physics G₁
- (3) Organic Chemistry G₀
- (4) Physical Chemistry G_p
- (5) Statistics and Textile
Testing

Cloth Structure I
Loom Study I
Textile Calculations
Colour Study I
Cloth Analysis I

Third Year

Raw Materials II
Woollen Yarn Production II
Woollen Yarn Production III
Worsted Yarn Production II
Worsted Yarn Production III
Cloth Structure II
Complex Textiles
Loom Study II
Colour Study II
Cloth Finishing I & II
Cloth Analysis II
Textile Testing
Mill Design and Management
Dyeing IIIr
Textile Chemistry II
Textile Physics III

(2) Honours Degree of B.Sc. in Textile Industries

Fourth Year

Following graduation in the Ordinary Degree of B.Sc. in Textile Industries candidates may obtain Honours in Textile Industries by presenting a thesis embodying the results of original research. In addition, they shall attend ancillary lectures and pass an appropriate examination.

Before the end of their course, students will be expected to obtain a reading knowledge of French and German, and their knowledge of these languages will be tested by means of an examination consisting of passages for translation into English. The use of dictionaries will be allowed at this examination, in which candidates will be required to satisfy the examiners.

**E.—Ordinary Degree of B.Com. with Textile Industries
as a Principal Subject**

<i>First Year</i>	<i>Second Year</i>
Mathematics Introductory	Principles of Economics
*Physics Intro. or	Money and Banking
Chemistry Intro.	Structure and Problems of
Economics Intro.	Industry
Textile Industries	Economic Statistics
(Preliminary)	Statistics
Raw Materials I	Loom Study I
Textile Calculations	Cloth Analysis I and II
Woollen Yarn Production I	Cloth Structure I
Worsted Yarn Production I	Raw Materials II
	Textile Testing
	Woollen Yarn Production II
	Worsted Yarn Production II
<i>Third Year</i>	
Industrial Relations	Cloth Finishing I
International Economics	Woollen Yarn Production III
Textile Economics	Worsted Yarn Production III
Loom Study II	Textile Chemistry II
Cloth Structure II	Textile Physics III
Complex Textiles	

*Owing to time-table difficulties this option cannot at present be taken.

The Honours and Ordinary Degrees of B.Sc. and the Degree of B.Com. with Textile Industries as Principal Subject, are accepted by the Textile Institute as fulfilling the educational requirements for the Associateship (A.T.I.).

F.—Degree of B.A. in Textile Design

This course is intended for students whose interest in textile technology is artistic rather than scientific.

<i>First Year</i>	
Fine Art	Woollen Yarn Production I
Two of the following :—	Worsted Yarn Production I
(1) An approved modern	Cloth Structure I
language	Loom Study I
(2) Economics	Textile Calculations
(3) Psychology	Colour Study I
Raw Materials I	Cloth Analysis I
	Principles of Pattern Design

Second Year

One of the following :—

- (1) An approved modern language
 - (2) Economics
 - (3) Industrial Psychology
- Raw Materials II
 Woollen Yarn Production II
 Worsted Yarn Production II
 Cloth Structure II
 Loom Study II
 Colour Study II
 Cloth Finishing I
 Cloth Analysis II
 Textile Testing
 Principles of Pattern Design

Third Year.

Woollen Yarn Production III
 Worsted Yarn Production III
 Complex Textiles
 Cloth Finishing II
 Mill Design and Management
 (B)
 Dyeing IIIr
 Principles of Pattern Design
 Science of Textile Fibres and Processes

During the third year, candidates must present a thesis based on original work in textile design.

G.—Post-Graduate Diploma in Textile Industries

This course is intended for graduates in science and technology who are proposing 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 course leading to the Honours Degree of B.Sc. 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

Besides undertaking research, on which a thesis must be presented, students will attend *four* courses of lectures and laboratory work selected from the following :—

- (1) Molecular Structure and Physical Properties of High Polymers, with particular reference to the Structure and Properties of Textile Fibres.
- (2) Chemistry of Natural and Synthetic Fibres.

- (3) Applied Chemistry—the chemistry of industrial processes, including those used in the manufacture of synthetic fibres.
- (4) 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.
- (5) Statistical methods in the study and control of textile processes.

H.—Diploma in Textile Industries

<i>First Year</i>	<i>Second Year</i>
Textile Industries (Preliminary)	Raw Materials II
Raw Materials I	Woollen Yarn Production II
Woollen Yarn Production I	Worsted Yarn Production II
Worsted Yarn Production I	Cloth Structure II
Cloth Structure I	Loom Study II
Loom Study I	Colour Study II
Textile Calculations	Cloth Finishing I
Colour Study I	Cloth Analysis II
Cloth Analysis I	Textile Testing
Textile Chemistry I	Textile Chemistry II
Textile Mathematics I	Textile Physics II
Textile Physics I	
 <i>Third Year</i>	
	Woollen Yarn Production III
	Worsted Yarn Production III
	Complex Textiles
	Cloth Finishing II
	Mill Design and Management
	Dyeing IIIr
	Textile Mathematics II
	Textile Physics III

Students are required to combine the above courses of study with at least *one* of the following *groups* of subjects :—

- (a) Mathematics Introductory
Physics Introductory.
Chemistry Introductory.
- (b) Economics Introductory.
Textile Economics.

(c) Two courses selected from the following :—

French I
German Sa
Russian IA
Spanish I

(d) Principles of Pattern Design

and to reach a satisfactory standard in the appropriate examinations. Those students selecting Group (b) are strongly recommended to take Group (d) as well, and suitable provision has been made in the time tables. The Diploma in Textile Industries is accepted by the Textile Institute as fulfilling the educational requirements for the Associateship (A.T.I.).

During the third year, candidates for the Diploma in Textile Industries must present twenty-four selected work-sheets and a thesis based on some approved textile research. Three copies of the thesis, bound in the standard form prescribed by the University, should be submitted by the 1st June, two copies being retained for the University Library.

A Diploma with distinction may be awarded to a student whose work is adjudged to be of outstanding merit.

Vacation Work in Mills

A panel of some 80 firms, willing to accept British students for vacation work, has been established with the help of the Wool (& Allied) Textile Employers' Council. The practical training given in the Department can thus be supplemented by industrial experience, and all students are expected to take advantage of this very great privilege during the summer vacation. Special arrangements of a different type are made for overseas students.

Lecture Courses, Experimental Work and Research Work

Textile Industries (Preliminary)

Lectures on Thursdays from 9 to 10 a.m. throughout the session.

SUBJECTS.—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 testing methods.

TEXT BOOKS

Textile Science by J. T. Marsh (Chapman & Hall, Ltd.).

An Introduction to the Study of Spinning by W. E. Morton (Longmans, Green & Co.).

Elementary Textile Design by W. Watson (Longmans, Green & Co.).

The Mechanism of Weaving by T. W. Fox (Macmillan & Co.).

Raw Materials I

Lectures and practical work on Thursdays from 11 a.m. to 1 p.m. throughout the session.

SUBJECTS.—The production, properties and uses of the various wools and hairs; cotton; flax and other bast fibres; silk; viscose, cellulose acetate and cuprammonium rayons; alginate rayons; casein and other protein rayons; nylon, terylene and orlon; remanufactured wool materials. Compilation of Raw Materials Sample Books.

TEXT BOOK

Woollen and Worsted Raw Materials by J. R. Hind (Ernest Benn, Ltd.)

Raw Materials II

Lectures on Thursdays from 2 to 3 p.m. throughout the session.

SUBJECTS.—The growth and microscopic structure of wool and hair; the impurities in wool. History of the development of merino and British breeds of sheep, and the production of crossbred dual-purpose sheep; sheep-shearing; wool classing and baling; wool marketing methods. The length, fineness and crimpiness of wool fibres; wool sorter's qualities; spinning properties.

The growth and structure of cotton and flax.

Methods of fibre identification and the quantitative analysis of blends.

TEXT BOOK

Mathews' Textile Fibers edited by H. R. Mauersberger
(Chapman & Hall, Ltd.)

Woollen Yarn Production I

Lectures on Mondays from 2 to 3 p.m. throughout the session.

SUBJECTS.—Survey of all processes used in the manufacture of woollen yarns. Principles underlying each process.

Woollen Yarn Production II

Lectures on Wednesdays from 9 to 10 a.m. throughout the session.

SUBJECTS.—Detailed consideration of scouring, drying and carbonising processes. Fibre recovery from wastes. Blending methods and machinery. Wool oiling. Study of the carding process.

Woollen Yarn Production III

Lectures on Tuesdays from 2 to 3 p.m. throughout the session.

SUBJECTS.—Detailed study of woollen spinning on mule and ring frames. Twisting of ordinary and fancy yarns. Composition of plants suitable for manufacture of various types of woollen yarns. Modern developments. Detection and prevention of faults. Application of research to practical yarn production.

TEXT BOOKS

An Introduction to the Study of Spinning by W. E. Morton
(Longmans, Green & Co.)

Wool Carding by J. Bradley (Emmott & Co.)

Principles of Woollen Spinning by H. Priestman (Longmans, Green & Co.)

Wool Research, Vol. 4, Carding (Wool Industries Research Association.)

Woollen and Worsted Yarn Manufacture by J. W. Radcliffe
(Emmott & Co.)

Worsted Yarn Production I
(English and Continental Systems).

Lectures on Thursdays from 2 to 3 p.m. throughout the session.

SUBJECTS.—Survey of all processes used in the manufacture of worsted yarns. Principles underlying each process.

Worsted Yarn Production II

Lectures on Fridays from 9 to 10 a.m. throughout the session.

SUBJECTS.—Detailed study of preparing, carding and backwashing processes. Combing on the Noble, Lister, Square Motion and Rectilinear combs. Top finishing. Open drawing process.

Worsted Yarn Production III

Lectures on Fridays from 2 to 3 p.m. throughout the session.

SUBJECTS.—Cone, continental and Anglo-continental drawing. Worsted spinning—flyer, ring, cap and mule. Yarn twisting, reeling and scouring. Modern developments. Detection and prevention of faults. Application of research to practical yarn production.

TEXT BOOKS

An Introduction to the Study of Spinning by W. E. Morton
(Longmans, Green & Co.)

Worsted Preparing and Spinning, Vols. I, II, and III
by F. Bradbury (King & Co.)

Wool Research, Vol. 6, Drawing and Spinning (Wool Industries
Research Association)

Worsted by J. Dumville and S. Kershaw (Pitman & Sons, Ltd.)

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.

Besides studying the building, setting, construction and manipulation of the various machines in both sections, students will have practical demonstrations of the output and adaptability of the machines for the production of different types of yarn.

Mathematical Theory of Spinning

Lectures at a time to be arranged during the fourth year of the courses for the Honours Degrees of B.Sc.

SUBJECTS.—Discussion of fibre control; cross-sectional area and twist distribution in drafting zone. Estimates of interfibre pressure and friction. Analysis of fibre tensions.

Derivation of spinning conditions; application to high and low draft processes. Optimum values of roving size, twist, setting for various drafts, and yarn counts. Limiting conditions: absolute maximum drafts. Effect of design of process on maximum draft.

Discussion on the functions of the front rollers in drafting. Effect of elastic properties of roller cover.

Discussion of the force necessary to part a yarn or roving. Application to yarn strength and twist.

Theory of blending of coloured tops in drawing. Effect of shortened processing. Similar analysis of yarn irregularity. Characteristics of yarn irregularity.

Cloth Structure I

Lectures on Tuesdays from 2 to 3 p.m. and Saturdays from 9 to 10 a.m. throughout the session.

SUBJECTS.—Single cloth weaves—plain; cords; mats; twills; fancy diagonals; sateens and sateen derivatives; diced weaves; whipcords; 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. Interchanging double cloths. Introducing wadding in backed or double cloths. Pattern range making.

Cloth Structure II

Lectures on Wednesdays from 12 noon to 1 p.m. throughout the session.

SUBJECTS.—Rib—single and backed. Cavalry twills. Bedford cords. Welts and piqués. Distorted thread effects. Hungbacks. Centre-warp (or weft) stitched double cloths. Special effects in double cloth and interchanging 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

Lectures on Thursdays from 3 to 5 p.m. throughout the session.

SUBJECTS.—Cloth structures including carpets, velvets, brocades, tapestry and gauze.

TEXT BOOKS

Elementary Textile Design by W. Watson (Longmans, Green & Co.)

Advanced Textile Design by W. Watson (Longmans, Green & Co.)

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 thesis and weaving competitions.

Loom Study I

Lectures on Mondays from 9 to 10 a.m. throughout the session.

SUBJECTS.—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 II

Lectures on Tuesdays from 9 to 10 a.m. throughout the session.

SUBJECTS.—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.

TEXT BOOKS

- Tappet and Dobby Looms* by T. Roberts (Emmott & Co.)
The Mechanism of Weaving by T. W. Fox (Macmillan & Co.)
Jacquard Mechanism and Harness Mounting by F. Bradbury
(F. King & Sons)
Automatic Weaving by W. A. Hanton (Ernest Benn Ltd.).
Mechanics of Textile Machinery by W. A. Hanton (Longmans,
Green and Co.).

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.

Textile Calculations

Lectures on Tuesdays from 11 a.m. to 12 noon, and on Fridays from 2 to 3 p.m. throughout the session.

SUBJECTS.—Wool yields; blending; drafting and doubling; yarn numbering; twist numbering; counts and costs of twists and component singles; average counts; reed and heald numbering; casting-out; weights and costs of warp, weft and cloth; percentage composition of fabrics; setting theories—single (square and unbalanced), backed and double-cloth structures; construction of cloths, including changes in weight, sett, count, weave and firmness; machine efficiency; wage rates.

TEXT BOOKS

- Calculations in Yarns and Fabrics* by F. Bradbury (F. King & Sons)
Weaving Problems by T. Oliver (Craighead Bros.)
Setting and Costing of Cloths by T. Oliver (A. Walker & Son, Ltd.)

Colour Study I

Lectures on Wednesdays from 9 to 10 a.m. throughout the session.

SUBJECTS.—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 II

Lectures on Mondays from 2 to 3 p.m. throughout the session.

SUBJECTS.—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.

TEXT BOOK

Colour in Woven Design by R. Beaumont (Pitman & Sons, Ltd.)

Cloth Finishing I

Lectures on Mondays from 9 to 10 a.m. throughout the session.

SUBJECTS.—The objects of finishing ; scouring, crabbing, blowing, milling, carbonising, drying and tentering, brushing and steaming, raising, cutting, and pressing ; shrinking, chlorinating, bleaching, and proofing ; changes in physical properties of fabrics from the loom to the finished state ; sequence of operations in finishing standard wool fabrics ; finishing costs.

Cloth Finishing II

Lectures on Wednesdays from 9 to 10 a.m. throughout the session.

SUBJECTS.—Advanced studies in woollen and worsted finishing ; the bleaching and finishing of cotton, linen, and rayon fabrics ; the finishing of blended fabrics ; mercerising ; special finishes, *e.g.* anti-crease and sanforised ; hosiery finishing ; defects.

TEXT BOOKS

The Finishing of Wool Goods by J. & J. C. Schofield (J. & J. C. Schofield)

The Finishing of Woven Fabrics by E. Midgley (Arnold)

The Bleaching and Finishing of Cotton by E. R. Trotman and E. L. Thorp (Griffin)

The Chemistry and Practice of Finishing by P. Bean and W. McCleary (Hutton, Hartley & Co.)

Mercerising by J. T. Marsh (Chapman & Hall, Ltd.)

An Introduction to Textile Bleaching by J. T. Marsh (Chapman & Hall, Ltd.)

An Introduction to Textile Finishing by J. T. Marsh (Chapman & Hall, Ltd.)

Experimental Work (Cloth Finishing)

(I): Mondays from 10 a.m. to 12 noon—manipulation of the various machines employed in the finishing of woollen and worsted cloths. Students will be required to finish typical woollen and worsted cloths.

(II): Wednesdays from 10 a.m. to 12 noon – the production of special finishes on woollen and worsted fabrics; the finishing of fabrics containing wool in admixture with other fibres, especially the newer synthetic materials; the finishing of certain types of cotton, rayon and union fabrics; laboratory experiments on processes involved in the finishing of cotton and rayon fabrics, *e.g.*, bleaching, crease-resisting, stiffening, softening, water-proofing, delustring; 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 the different stages of finishing.

Cloth Analysis I

Lectures on Saturdays from 11 a.m. to 12 noon throughout the session. Practical work on Mondays or Thursdays from 3 to 5 p.m.

SUBJECTS.—The analysis and reproduction of all types of single structures; extra warp and weft structures; figured cloths; heavily milled cloths; simple and crammed stripe suitings; colour and weave effects.

Cloth Analysis II

Lectures on Fridays from 3 to 4 p.m. throughout the session.

SUBJECTS.—The analysis and reproduction of compound structures; backed cloths; imitation backed

cloths ; self-stitched, centre-stitched, and interchanged double cloths ; cut double cloths ; wadded cloths ; weft-reversible cloths ; multiple cloths ; circular cloths ; colour and weave effects in compound cloths ; burst pile and compound figured cloths.

TEXT BOOK

The Analysis of Woven Fabrics by A. F. Barker and E. Midgley (Ernest Benn, Ltd.)

Elementary Textile Design by W. Watson (Longmans, Green & Co.).

Advanced Textile Design by W. Watson (Longmans, Green & Co.).

The Finishing of Woven Fabrics by E. Midgley (Arnold).

Textile Testing

Lectures on Tuesdays from 3 to 4 p.m. throughout the session. Practical Textile Testing on Thursdays from 3 to 5 p.m.

SUBJECTS.—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 ; strip tensile and bursting strength of cloth ; abrasion resistance ; thickness, crimp and other fabric properties. Microscopic examination of fibres ; preparation of cross-sections. Identification and quantitative analysis of fibre mixtures.

TEXT BOOK

Textile Testing by J. Lomax (Longmans, Green & Co.)

Textile Testing by L. Skinkle (Chemical Publishing Co., New York)

Methods of Test for Textiles—Handbook No. II (British Standards Institution)

Mill Design and Management

Section A. Lectures on Tuesdays from 11 a.m. to 12 noon and on Saturdays from 10 to 11 a.m. throughout the session.

SUBJECTS.—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.

Section B. Lectures on Mondays from 3 p.m. to 4 p.m. throughout the session.

SUBJECTS.—Factory organisation—site, buildings, layout, 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.

TEXT BOOKS

- The Chemical Technology of Steam-Raising Plant* by H. N. Bassett (Edward Arnold)
Mechanical Power Transmission by W. Staniar (McGraw Hill Book Co., Inc.)
Heat Engines by A. C. Walshaw (Longmans, Green & Co.)
Machinery, Management and Control in a Wool Textile Factory by D. R. H. Williams (Emmott & Co.)
Management of a Textile Business by C. C. Balderston and V. S. Karabasz (The Textile Foundation, Washington)
Cost Accounting and Cost Control by G. P. Norton (Gee)
Costing in the Wool Textile and other Industries by D. R. H. Williams (Ernest Benn, Ltd.)
Production Handbook by L. P. Alford and J. R. Bangs (The Ronald Press Co.)
Industrial Psychology by C. S. Myers (Oxford University Press)
Men at Work by C. A. Oakley (Hodder & Stoughton, Ltd.).

Dyeing IIIr

Lectures on Thursdays from 9 to 10 a.m. and practical dyeing on Thursdays from 10 a.m. to 1 p.m. throughout the session.

SUBJECTS.—The position occupied by dyeing in wool textile processing ; nature of dye solutions and theory of dyeing with acid dyes ; methods of application and uses of acid dyes on wool.

Mordant dyes—nature and theory of application ; methods of application and uses ; water-soluble metalised types (Neolan and Ultralan dyes).

Indigo and indigoid vat dyes on wool.

Cellulosic fibres—their nature and dyeing characteristics compared with wool—fastness requirements ; direct cotton dyes ; after-treatment of direct cotton dyes ; insoluble azo (azoic) dyes ; indigoid ; anthraquinonoid and sulphur dyes ; solubilised vat dyes (Indigosol and Soledon dyes).

Viscose and cellulose acetate rayons ; nylon, Rayolanda and casein fibre ; silk.

Union dyeing and stripping of dyed materials.

Dyeing machinery for wool and cellulosic materials in loose, slubbing, yarn and piece form.

Practical work includes small scale dyeing trials with the most important fibres and large scale dyeing as practicable.

TEXT BOOKS

Dyeing with Coal Tar Dyestuffs by C. M. Whittaker and C. C. Wilcock, 4th Ed. (Baillière, Tindall & Cox).

The Dyeing of Textile Fibres by R. S. Horsfall and L. Lawrie, 2nd Ed. (Chapman & Hall).

The Theory and Practice of Wool Dyeing by C. L. Bird (Society of Dyers and Colourists).

Textile Chemistry I

Lectures on Mondays from 12 noon to 1 p.m. throughout the session.

SUBJECTS.—This course serves as an introduction to Textile Chemistry II and is taken by all Diploma students, unless specially exempted.

Textile Chemistry II

Lectures on Mondays from 12 noon to 1 p.m. and on Saturdays from 9 to 10 a.m. throughout the session.

Subjects.—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; dyeing.

The chemistry of oils, fats and waxes; the 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 the newer auxiliary products, including wetting agents and detergents.

Sizing, waterproofing and fireproofing. Chemical methods for estimating fibre damage and their use in controlling finishing and other processes.

The structure and properties of man-made fibres.

TEXT BOOKS

Textile Science by J. T. Marsh (Chapman & Hall, Ltd.)

An Introduction to Textile Finishing by J. T. Marsh (Chapman and Hall, Ltd.)

Matthews' Textile Fibers edited by H. R. Mauersberger (Chapman & Hall, Ltd.)

An Introduction to the Chemistry of Cellulose by J. T. Marsh and F. C. Wood (Chapman and Hall, Ltd.)

Fibre Science edited by J. M. Preston (The Textile Institute).

Experimental Work

(Textile Chemistry)

Analysis and Testing of Wool Oils and Soaps

A practical course of analysis of wool oils, soaps, etc., occupying a minimum of six hours per week, has been arranged to meet the requirements of students and firms particularly interested in the subject of wool oils and the oiling of wool.

Textile Mathematics I

Lectures on Tuesdays from 9 to 10 a.m. throughout the session.

SUBJECTS.—This course serves as an introduction to Textile Mathematics II and is taken by all Diploma students, unless specially exempted.

Textile Mathematics II

Lectures on Mondays from 9 to 10 a.m. throughout the session.

SUBJECT.—Application of statistical methods to problems in textile research, testing and processing.

Textile Physics I

Lectures on Fridays from 9 to 10 a.m. throughout the session.

SUBJECTS.—This course serves as an introduction to Textile Physics II and is taken by all Diploma students, unless specially exempted.

Textile Physics II

Lectures on Thursdays from 9 to 10 a.m. throughout the session.

SUBJECTS.—*Heat.* Explanation in molecular terms of temperature, sensible heat, latent heat, gas pressures. Vapour pressure, saturated vapours. Humidity and hygrometry. *Light.* Mirrors and lenses. The optical microscope. Light as a wave motion. Simple cases of interference and diffraction. Polarised light. Double refraction and birefringence of fibres. *Electricity and magnetism.* Atomic structure. Fundamental ideas of static and current electricity. Alternating currents. Magnetic force. Induced magnetism. Magnetic effects of currents. Transformers. Motion of electron in electric and magnetic fields. X-rays. Electron microscope.

Textile Physics III

Lectures on Saturdays from 11 a.m. to 12 noon throughout the session.

SUBJECTS.—The X-ray interpretation of the molecular structure and properties of fibres.

TEXT BOOK

Fundamentals of Fibre Structure by W. T. Astbury (Oxford University Press)

Fibre Science, edited by J. M. Preston (The Textile Institute).

Principles of Pattern Design

FIRST YEAR: Classes on Wednesdays or Fridays from 10 a.m. to 12 noon throughout the session.

SECOND YEAR: Classes on Thursdays from 10 a.m. to 12 noon throughout the session.

THIRD YEAR: Classes on Mondays from 10 a.m. to 12 noon throughout the session.

SUBJECTS.—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.

TEXT BOOKS

Textiles section of Studio Year Book

An Encyclopædia of Textiles (Ernest Benn, Ltd.)

Pattern and Design by N. I. Cannon (Lund Humphries)

Decorative Textiles by G. L. Hunter (Lippincott)

Ornament by H. Th. Bossert (Ernest Benn, Ltd.)

English Textiles by W. G. Hunter (Tiranti)

History of Textile Fabrics by Glazier (Batsford)

Mathematics, Physics, Chemistry and Engineering

Students are referred to the prospectuses of the several Departments for details of the various courses.

Statistics and Textile Testing

(Ordinary Degree of B.Sc. in Textile Industries)

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 theoretical applications of statistical theory, the fundamentals of textile testing and the application of statistical methods to testing problems. The practical work includes that described under Textile Testing, with appropriate extensions.

**Economics, Statistics, Commercial Law
and Accountancy**

For these subjects students are referred to the prospectus of the Department of Economics and Law.

French I, German Sa, Russian IA and Spanish I

These courses are intended for students who wish to acquire a greater proficiency in languages. Details are to be found in the departmental prospectuses.

Museum Study: Use of Reference Library

The Textile Department Museum contains an extensive collection of specimens covering the complete range of textile processes, as well as a collection of old and modern textile fabrics, which are of particular interest and value to students who specialise in textile design. Within the Museum is the Departmental Library, which houses text-books and reference books on textile subjects.

Research Work

Besides the opportunity which is afforded by the general equipment of the Department for research in Textile Technology, there are well-equipped laboratories for research in Textile Chemistry and Textile Physics. Valuable Scholarships and Fellowships are available to assist graduates in Science, as well as in Textiles, to conduct research work for higher degrees.

Scheme of Co-operation between the University of Leeds
and the Wool Industries Research Association

1. Duly qualified graduates in Science or Technology may, in accordance with the Ordinances and Regulations laid down in the University Calendar, proceed to the degrees of Doctor of Philosophy or Master of Science of the University of Leeds after the prosecution of research work at the Wool Industries Research Association under the Director of that Association.

2. Graduates of other Universities than Leeds, and Leeds graduates without satisfactory previous training in Textile Industries, wishing to come under this scheme will be required to attend approved courses in the Textile Industries Department of the University for not less than one year. This prescribed attendance in the University will normally be prior to their attendance at Torridon, but in exceptional circumstances and with the approval of the Senate the attendance may be concurrent with the period at Torridon.

3. All candidates for post-graduate degrees while carrying on their work at the Research Association at Torridon will be under the immediate and direct control of the Director of the Research Association at Torridon, who must be approved by the University for this purpose, but periodical discussion of the work will take place between the Director and the Head of the Department of Textile Industries.

4. All students proceeding to degrees through research work at Torridon must be duly registered students of the University of Leeds, and, as such, shall be under the discipline of the University. They will be required to pay such tuition fees as may be determined by the University Council, and shall be entitled to all the privileges of the University Union, Library, &c., on payment of the appropriate fees.

5. For the purposes of this scheme, the Director of the Research Association at Torridon has been appointed an Honorary member of the staff of the Textile Industries Department of the University of Leeds, with the title of "Director of Torridon Research Students."

First Year Time Table for the Ordinary Degree of B.Sc.

	9-10	10-11	11-12	12-1	2-3	3-4	4-5
MON.	Maths. Intro.	Woollen Spinning Practical		Chemistry Intro.	Woollen Spinning I	Woollen Spinning Practical	
TU.	Maths. Intro.	Physics Intro.	Laboratory		Laboratory		
WED.	Maths. Intro.	Laboratory		Chemistry Intro.	—	—	—
THU.	Textile Industries (Prelim.)	Physics Intro.	Raw Materials I		Worsted Spinning I	Worsted Spinning Practical	
FRI.	Maths. Intro.	Laboratory		Chemistry Intro.	Physics Intro.	Laboratory	
SAT.	Laboratory			—	—	—	—

N.B.—The Physics and Chemistry courses require 4 and 6 hours' laboratory work respectively for which provision has been made in the above time table.

Second Year Time Table for the Ordinary Degree of B.Sc.

	9-10	10-11	11-12	12-1	2-3	3-4	4-5
MON.	Loom Study I	<i>Maths E1</i>	<i>Physics G1</i>	<i>Maths. E2</i>	Laboratory		
TU.	Cloth Analysis Practical	<i>Physical Chem. Gp</i>	Textile Calcula- tions	<i>Statistics or Organic Chem. Go</i>	Cloth Structure I	Textile Testing	Hand- loom Weaving
WED.	Colour Study I	<i>Maths E1</i>	<i>Physics G1</i>	<i>Maths E2</i>	—	—	—
THU.	Handloom Weaving	<i>Physical Chem. Gp</i>	Power- loom Weaving	<i>Statistics or Organic Chem. Go</i>	Laboratory		
FRI.	Handloom Weaving	<i>Maths. E1</i>	<i>Physics G1</i>	<i>Maths. E2</i>	Textile Calcula- tions	Hand- loom Weaving	<i>Statistics or Organic Chem. Go</i>
SAT.	Cloth Structure I	<i>Physical Chem. Gp</i>	Cloth Analysis I	—	—	—	—

Students are required to select two of the Science subjects shown in italics in the time table. N.B.—The Physics and Chemistry Courses require 6 and 9 hours' laboratory work respectively, for which provision has been made in the above time table.

Third Year Time Table for the Ordinary Degree of B.Sc.

	9-10	10-11	11-12	12-1	2-3	3-4	4-5
Mon.	Cloth Finishing I	Textile	Testing	Textile Chemistry II	Colour Study II	Mill Design & Management (B) Textile* Testing	Powerloom Weaving
Tu.	Loom Study II	Powerloom Weaving	Mill Design & Management (A)	—	Woollen Spinning III	—	Woollen Spinning Practical
Wed.	Woollen Spinning II	Woollen Spinning Practical	—	Cloth Structure II	—	—	—
Thu.	Dyeing IIIr	Practical Dyeing			Raw Materials II	Complex	Textiles
Fri.	Worsted Spinning II	Worsted Spinning Practical	Cloth Finishing Practical	—	Worsted Spinning III	Cloth Analysis II	Worsted Spinning Practical
Sat.	Textile Chemistry II	Mill Design & Management (A)	Textile Physics III	—	—	—	—

*Students are also required to attend four additional lectures on statistical method on Mondays from 4 to 5 p.m.

First Year Time Table for the Ordinary Degree of B.Com.

	9-10	10-11	11-12	12-1	2-3	3-4	4-5
MON.	Maths. Intro.	—	Physics Gr or Chem. Intro.		Woollen Spinning I	Woollen Spinning Practical	
TU.	Maths. Intro.	Economics (Intro.)	Textile Calcula- tions	—	Worsted Spinning Practical		
WED.	Maths. Intro.	—	Physics Gr or Chem. Intro.		—	—	—
THU.	Textile Industries (Prelim.)	Economics (Intro.)	Raw Materials I		Worsted Spinning	Worsted Spinning Practical	
FRI.	Maths. Intro.	Comm. Law	Physics Gr or Chem. Intro.		Textile Calcula- tions	Physics or Chemistry Laboratory	
SAT.	Handloom Weaving			—	—	—	—

Second Year Time Table for the Ordinary Degree of B.Com.

	9-10	10-11	11-12	12-1	2-3	3-4	4-5
MON.	Loom Study I	Structure and Problems of Industry	Cloth Analysis Practical		Cloth Analysis I and II	Economic Statistics	Handloom Weaving
TU.	Structure and Problems of Industry	Powerloom Weaving	Principles of Economics	Statistics	Cloth Structure I	Textile Testing	Money and Banking
WED.	Woollen Spinning II	Woollen Spinning Practical		—	—	—	—
THU.	Cloth Analysis I and II	Handloom Weaving	Principles of Economics	Statistics	Raw Materials II	Textile Practical	Testing
FRI.	Worsted Spinning II.	Worsted Spinning Practical		—	Handloom Weaving	Statistics	
SAT.	Cloth Structure I	Powerloom Weaving		—	—	—	—

Third Year Time Table for the Ordinary Degree of B.Com.

	9-10	10-11	11-12	12-1	2-3	3-4	4-5
MON.	Cloth Finishing I	Handloom Weaving		Textile Chemistry II		International Economics	
TU.	Loom Study II	Industrial Relations	Powerloom Weaving	Textile Economics	Woollen Spinning III	Woollen Spinning Practical	
WED.	Cloth Finishing II	Cloth Finishing Practical		Cloth Structure II	—	—	—
TH.	Dyeing IIIr.	Industrial Relations	Powerloom Weaving	Textile Economics	—	Complex Textiles	
FRI.		Practical Dyeing		—	Worsted Spinning III	Worsted Spinning Practical	
SAT.	Textile Chemistry II	—	Textile Physics III	—	—	—	—

First Year Time Table for the Diploma in Textile Industries

	9-10	10-11	11-12	12-1	2-3	3-4	4-5
MON.	Loom Study I	Powerloom	Weaving	Textile Chemistry I	Woollen Spinning I	Woollen Spinning Practical	
TU.	Text. Maths. I	Economics (Intro.)	Textile Calculations	—	Cloth Structure I	Worsted	Spinning Practical
WED.	Colour Study I	Pattern	Design	Economics Tutorial	—	—	—
THU.	Textile Industries (Prelim.)	Economics (Intro.)	Raw Materials I	—	Worsted Spinning I	Cloth Analysis Practical	
FRI.	Text. Physics I	Handloom	Weaving	—	Textile Calculations	Powerloom	Weaving
SAT.	Cloth Structure I	—	Cloth Analysis I	—	—	—	—

Second Year Time Table for the Diploma in Textile Industries

	9-10	10-11	11-12	12-1	2-3	3-4	4-5
MON.	Cloth Finishing I	Cloth Finishing Practical		Textile Chemistry II	Cloth Study II	Handloom	Weaving
TU.	Loom Study II	Powerloom Weaving		Textile Economics	Powerloom Weaving	Textile* Testing	Handloom Weaving
WED.	Woollen Spinning II	Woollen Spinning Practical		Cloth Structure II	—	—	—
THU.	Textile Physics II	Pattern	Design	Textile Economics	Raw Materials II	Textile Testing Practical	
FRI.	Worsted Spinning II	Worsted Spinning Practical			Handloom Weaving	Cloth Analysis II	Cloth Analysis Practical
SAT.	Textile Chem. II	Handloom	Weaving	—	—	—	—

*Students are also required to attend four additional lectures on statistical method on Mondays from 4 to 5 p.m.

Third Year Time Table for the Diploma in Textile Industries

	9-10	10-11	11-12	12-1	2-3	3-4	4-5
MON.	Textile Maths. II.	Pattern Design			Thesis	Mill Design & Management (B)	Thesis
TU.	Thesis		Mill Design & Management (A)	Thesis	Woollen Spinning III	Woollen Spinning Practical	
WED.	Cloth Finishing II	Cloth Finishing Practical		—	—	—	—
THU.	Dyeing IIIr	Practical Dyeing			Thesis	Complex Textiles	
FRI.	Work Sheets		Thesis		Worsted Spinning III	Worsted Spinning Practical	
SAT.	Thesis	Mill Design & Management (A)	Textile Physics III	—	—	—	—

DEPARTMENT OF COLOUR CHEMISTRY AND DYEING

The courses of study in this Department are primarily designed to provide fundamental and comprehensive teaching in the appropriate pure and applied sciences in preparation for a career in any of the branches of industry in which the chemistry of intermediate products and colouring matters, textile fibres and the processes to which they are submitted, play an important part. The courses qualify students for appointments on the commercial, research and technical staffs of firms engaged in the bleaching, scouring, dyeing, printing and finishing of textiles and other materials, and in the manufacture of intermediate products, dyes, pigments and lakes.

The courses of study of which particulars are given are those normally suitable for students who have just left school. Attention is drawn, however, to the provisions of the Ordinances of the University by which undergraduates who have already studied and passed examinations in Chemistry, Mathematics, Physics, etc., at an appropriate standard may be exempted from a certain amount of attendance and from certain examinations in this University. Students holding a science degree of any University (British or foreign), the Associateship or Fellowship of the Royal Institute of Chemistry, or otherwise bringing forward evidence of sufficient previous scientific education may be admitted to the later stages of any of the courses and may be permitted to undertake at once more specialised work in the Department.

All lecture courses are open to suitable students without entrance upon other work in the Department. Combined lecture and practical courses in Dyeing also may be arranged for students who have received a preliminary scientific training.

Graduates in science of approved Universities, or other qualified persons, may be accepted as candidates for the degree of Ph.D. or M.Sc. and are required to pursue for not less than two years a full-time course of advanced study in Colour Chemistry and/or Dyeing and research.

SYLLABUS OF COURSES

I. Four Years Course qualifying for the
Honours B.Sc. Degree in Colour Chemistry

First Year		Hours. per week
Mathematics (Introductory)	4	
Lectures on Physics (Introductory Course <i>b</i>)	3	
Physics Laboratory	3	
Lectures on Chemistry (Introductory Course)	4	
Chemical Laboratory	12	
German		
Experimental Dyeing Laboratory	6	
Second Year		
Lectures on Inorganic, Physical and Organic Chemistry (Gi, Gp, and Go)	9	
Inorganic, Physical and Organic Chemical Laboratory	18	
Lectures on Dyeing (Dyeing III)	1	
Experimental Dyeing Laboratory	7	
Textile Industries (Preliminary)	1	
German		
Third Year		
Experimental Dyeing Laboratory, Calico Printing, and Practical Dyehouse	25	
Colour Chemistry Laboratory		
Lectures on Chemical Technology of Textile Fibres (1st Term)	4	
Lectures on the Chemistry and Technology of Dyeing (2nd Term)		
Lectures on the Chemistry of Intermediates and Dyes (Introductory Course, 1st and 2nd Terms) First Term	2	
Second Term	1	
Lectures on Organic Chemistry (Third Term) O ₃	3	
Lectures on Cloth Finishing (I) and (II)	2	
Lectures on Engineering Introductory	3	
Practical Cloth Finishing (2nd Term)	2	
Fourth Year		
Colour Chemistry Laboratory	30	
Lectures on Synthetic Colouring Matters (1st and 2nd Terms), Parts 1 and 2	4	
Lectures on Natural Colouring Matters (1st and 2nd Terms)	1	
Lectures on Organic Chemistry (First Term) O ₃	3	

II. Four Years Course for Colour Chemists qualifying for the Diploma in Colour Chemistry

This course is identical with that qualifying for an Honours B.Sc. degree, and is suitable for students unable to satisfy the requirements for admission to a degree course.

III. Three Years Course qualifying for the Ordinary Degree of B.Sc. in Dyeing

First Year	Hours, per week.
Mathematics (Introductory)	4
Lectures on Physics (Introductory Course <i>b</i>)	3
Physics Laboratory	3
Lectures on Chemistry (Introductory Course)	4
Chemical Laboratory	12
German .. .. .	..
Experimental Dyeing Laboratory	6

Second Year	
Lectures on Inorganic, Physical and Organic Chemistry (Gi, Gp, and Go)	9
Inorganic, Physical and Organic Chemical Laboratory	18
Lectures on Dyeing (Dyeing III)	1
Experimental Dyeing Laboratory	7
Textile Industries (Preliminary)	1
German .. .. .	..

Third Year	
Experimental Dyeing Laboratory, Calico Printing and Practical Dyehouse ..	25
Lectures on the Chemistry of Intermediates and Dyes (Introductory Course 1st and 2nd Terms)	1
Lectures on Chemical Technology of Textile Fibres (1st Term)	4
Lectures on the Chemistry and Technology of Dyeing (2nd Term)	
Lectures on Engineering (Introductory) ..	3
Lectures on Cloth Finishing (I) and (II) ..	2
Practical Cloth Finishing (2nd Term) ..	2
Leather Dyeing .. .. .	..

IV. Three Years Course qualifying for the Diploma in Dyeing

This Course is identical with that qualifying for the Ordinary B.Sc. Degree and has been arranged for students unable to satisfy the requirements for admission to a degree course.

Regulations for Degrees and Diplomas in Dyeing and Colour Chemistry

Candidates for Degrees and Diplomas are required :

I. *During the Course—*

- (a) To give satisfactory attendance upon the subjects which form any part of the course of study.
- (b) To present themselves for any departmental examinations that may be held in the subjects forming part of their course of study.
- (c) To make formal entry for the appointed degree and diploma examinations on the prescribed form, not later than the 30th January, and to pay at the same time the prescribed examination fee.

II. *At the end of the Course—*

- (a) To reach a satisfactory standard in any Final examination which may be set.
- (b) To translate into English a passage of French or German technical literature (Dyeing course) or a passage of French and a passage of German (Colour Chemistry course).

III. A Diploma may be granted upon a degree course provided that the subjects studied for the degree include those prescribed for the Diploma, and that the other conditions are complied with.

A student producing evidence of adequate previous scientific or practical training, may, upon application to the Senate, be exempted from a portion of the normal course and may qualify for the Diploma upon a shortened period of study.

SYLLABUS OF LECTURES**I. The Chemical Technology of Textile Fibres, Water and Mordants**

Mondays at 12 noon, Wednesdays at 12 noon, and Fridays at 11.30 a.m., and Thursdays at 4 p.m., during the first term.

The lectures will deal with the following subjects :—

Molecular structure of textile fibres ; the influence of degree of crystallinity and polymerisation upon their physical and chemical properties. Growth, production, preparation, chemical and physical properties of cotton, wool, silk, linen, flax, hemp, ramie, jute, sisal, mohair, etc. Structure and properties of cellulose, keratin and fibroin. Manufacture and properties of viscose, cuprammonium and acetate rayons, casein fibre, Ardil, nylon, Terylene, etc. Constitution, properties and uses of auxiliary products used in the wet processing of textiles. Impurities in natural waters and methods for their removal: water softening, boiler water conditioning, and treatment of textile effluents.

II. The Chemistry and Technology of Dyeing

Mondays at 12 noon, Wednesdays and Fridays at 11.30 a.m., and Thursdays at 4 p.m., during the second term.

The course forms a continuation of I, and covers the following subjects :—

Theories of dyeing ; kinetic and thermodynamic aspects. Relationship between chemical constitution of dyes and fibres. Classification of dyes. Methods of application in dyeing and textile printing of the various classes of dyes: basic, acid, mordant, direct, azoic, sulphur, vat, etc. Dyeing of rayons and synthetic fibres. Union dyeing. Testing coloured materials for fastness. Daylight lamps. Faults in dyed materials. Machinery and processes used in textile printing.

III. Introductory Course of Dyeing

Mondays at 9 a.m.

This Course is intended for second year students. In particular it provides a theoretical background to the

small scale dyeing experiments in which different classes of dyes are applied to the various types of textile fibres as described under Laboratory Work, section A (Experimental Dyeing Laboratory). See later page.

Dyeing IIIr (Thursdays at 9 a.m.) is a similar course for Textile students.

IV. The Chemistry of Intermediates and Dyes (Introductory Course)

Tuesdays, 4 p.m., 1st and 2nd terms ; Fridays, 9 a.m., 1st term.

Raw materials used in the dyestuff industry. Processes of sulphonation, alkali fusion, nitration, reduction, and alkylation. Intermediates of the benzene and naphthalene series. Classification of dyes according to their chemical structure: chromophores, chromogens, auxochromes, leuco-compounds, quinonoid theory, nitro, nitroso, azo, stilbene, ketonimine, triphenylmethane, xanthene, acridine, anthraquinonoid, indamine, thiazine, oxazine, azine, indigoid, thiazol, and sulphur dyes.

V. Chemistry of Synthetic Colouring Matters (Part I)

Tuesdays and Thursdays at 11 a.m., during the first and second terms.

The lectures will comprise an account of the chemistry of the anthraquinone vat dyes, indigoid and thioindigoid dyes, polymethine dyes, azine dyes, sulphide dyes and, where these have not been dealt with in IV, the relevant intermediate products.

VI. Chemistry of Synthetic Colouring Matters (Part II)

Thursdays at 2 p.m., and Fridays at 10 a.m., during the first and second terms.

This course will present a detailed account of the derivatives of naphthalene, diazo-compounds, and the azo, pyrazolone, stilbene and thiazole dyes. Special attention will be devoted to the more important types of factory plant, the materials involved in their construction, and to works practice in general.

VII. Chemistry of Natural Colouring Matters

Fridays at 2 p.m. during the first and second terms.

The lectures will deal with the origin, chemistry and technology of the natural dyestuffs: Madder, chay root, munjeet, morinda root, ventilago root, cochineal, kermes, lac dye, sanderswood, barwood, alkanet, *butea frondosa*, safflower, Indian yellow, gentian root, weld, dyer's broom, young fustic, old fustic, quercition bark, Persian berries, catechu, logwood, brazilwood, indigo, woad, Tyrian Purple, turmeric, cudbear, orchil, litmus, anthocyan pigments, carotinoid pigments, chlorophyll, tannins.

Cloth Finishing I and II

A course of lectures given in the Textile Industries Department on Mondays at 9 a.m. throughout the session. The following subjects are dealt with:—Scouring, crabbing, blowing, milling, carbonising, drying and tentering, brushing and steaming, raising, cutting and pressing; shrinking, chlorinating, bleaching, and proofing; sequence of operations in finishing standard wool fabrics; finishing costs.

Instruction in the manipulation of the various machines used in cloth finishing is given on Mondays from 2 p.m. until 4 p.m. during the second term.

Students are also encouraged to attend Cloth Finishing II, a course of lectures given in the Textile Industries Department on Saturdays at 9 a.m. throughout the session, and dealing with the following subjects:—Advanced studies in woollen and worsted finishing; the bleaching and finishing of cotton, linen, rayon, and union fabrics; mercerising; special finishes, *e.g.*, anti-crease and Sanforising; hosiery finishing; defects.

Textile Industries (Preliminary)

A course of lectures is given in the Textile Industries Department on Thursdays at 9 a.m. throughout the session.

The lectures include the following subjects:—

The various textile fibres, their distribution and growth, chemical, physical and processing properties, and basic principles of manipulation. Historical development of the Textile Industry, its branches and their distribution, textile inventors and their machines. Physical bases of yarn structures, and principles of spinning and weaving. Elements of hosiery, feltmaking, embroidery, lacemaking and braiding.

LABORATORY WORK

A. Experimental Dyeing Laboratory

The laboratory is open every week-day during the session from 9 a.m. to 5 p.m., Saturdays 9 a.m. to 12 noon. Equipment available includes steam heated dyebaths and automatic thermostatically controlled Marney dyeing machines, a drying oven for patterns, daylight matching lamps, a Cambridge pH Meter, an Atlas Fade-o-meter and other appliances.

Work carried out includes the following subjects:— Application of the various classes of dyes to protein, cellulosic, regenerated cellulosic and synthetic fibres and also to unions of these. Principles and practice of colour mixing and matching to shade. The stripping of dyed materials. Determination of the fastness properties of dyed materials. The identification of textile fibres alone and in mixtures and the quantitative estimation of the components in fibre mixtures. The systematic determination of the dyeing and chemical class of single dyes and mixtures of dyes on various textile fibres. The evaluation of commercial samples of dyes. Technical analysis including analysis of soap water, sodium hydrosulphite, etc.; the detection and estimation of metals in textile materials, the determination of the fluidity of cellulosic materials in cuprammonium solutions; the use of techniques employing the photoelectric absorptiometer, and potentiometric titration methods.

B. Practical Dyehouse

The practical dyehouse is well equipped with the necessary machinery for dyeing wool, cotton, rayons and synthetic fibres in the various stages of manufacture. The machines are of modern type and include a Simplex machine for loose wool, rags and cotton, circulating liquor machines for wool and cotton cheeses, rayon cakes, and tops, a Hussong machine for yarn, a paddle machine for hosiery and hats, winches for dyeing wool and rayon pieces, and an experimental jigger for cotton piece dyeing; also a wash wheel for testing the fastness of dyed materials to washing.

All students of dyeing receive training in the treatment of various classes of textile materials in machines.

C. Calico Printing

A practical course in calico printing is held during the third term, the work comprising small-scale experiments in the different styles, discharges, resists, printing with diazo-compounds, aniline black, indigo, and other vat dyes, &c.

D. Colour Chemistry Laboratory

The laboratory is spacious and is provided with every facility for the conduct of chemical work upon intermediates and colouring matters. The work carried out comprises the following subjects:

Third Year

Quantitative analyses of raw materials and intermediates. Technical methods of analysis. Preparation of intermediates and dyes by technical methods, etc.

Fourth Year

Identification of dyes. Critical study of intermediates, their isolation and properties. Analyses of dyes and their intermediate products. Investigation of technical problems, etc.

E. Clothworkers' Research Laboratories

Special facilities are provided for the conduct of original research in the chemistry of intermediates and synthetic and natural colouring matters, and upon

dyeing processes. The laboratories are spacious and well equipped for carrying out scientific and technical investigations in these subjects. Post graduate and other advanced students are admitted to research work under the direction of the Professor and Lecturers. Graduates of other Universities (British or foreign), and other qualified chemists, may also obtain admission as research workers for any period desired.

F. Special Fees for Apparatus, Chemicals and Dyeing Materials

Fourth year degree students are required to pay £3 3s., third year degree students and third year diploma students £2 2s., second year degree students and second year diploma students £1 1s. per session. Part-time students from 10s. 6d. to £1 11s. 6d. per session, according to time worked.

Research students are required to pay a deposit fee of £5 at the beginning of each session. The deposit will be refunded at the end of each session after deduction of a sum for breakages.

Students can only start work after production of receipts for these amounts respectively.

MUSEUM

The museum contains comprehensive collections of intermediate products, natural and synthetic colouring matters, all types of textile materials, etc., at all stages of manufacture, and many valuable exhibits of historical interest.

VACATION WORK

The laboratories of the department will be open to qualified students for research and private study during a part of the long vacation. Undergraduate students are strongly recommended to employ the time in gaining practical experience in works wherever such a course is possible. The Professor will be glad to give advice before the end of the term as to suitable courses of vacation study.

APPOINTMENTS

Students who have satisfactorily completed a course may rely upon receiving all possible assistance in obtaining suitable positions when their term of study is completed.

CITY AND GUILDS EXAMINATIONS

The above courses prepare for the technological examinations of the City and Guilds of London Institute in Dyeing subjects. Students of the Department are recommended to present themselves for these examinations in the appropriate year of their University course.

In connexion with these examinations, certificates, prizes and medals are awarded to the successful candidates. The examinations are held annually at the University in April or May. Entries for the next examination will be received by the Local Secretary, The University, Leeds, not later than 1st March of each year.

ROYAL INSTITUTE OF CHEMISTRY

Students who have graduated in Colour Chemistry with First or Second Class Honours, and who have attained the age of 21 years, are eligible to apply for admission to the Associateship of the Institute of Chemistry without further examination.

Forms of Application and Forms of Regulations for the admission of Students, Associates, and Fellows may be obtained from the Registrar, Royal Institute of Chemistry, 30, Russell Square, London, W.C.1.

TEXTILE INSTITUTE

Students who have been awarded the degree of B.Sc. in Dyeing, or the Diploma in Dyeing, or the degree of B.Sc. Hons. Colour Chemistry (having also taken the Diploma course in Dyeing), and who can produce satisfactory evidence that for a period of not less than two years they have been engaged in responsible

direction and control of textile work, can apply for election to the Associateship of the Textile Institute with exemption from the examinations of the Textile Institute, but they will not be granted the Associateship until they reach the age of twenty-five years.

Further particulars may be obtained from the Secretary, Textile Institute, 16, St. Mary's Parsonage, Manchester, 3.

DEPARTMENT OF LEATHER INDUSTRIES

The Department was founded in 1891 and the present building which was erected through the generosity of the Worshipful Company of Skinners, was opened in 1899 with the object of "advancing instruction and research in the science and practice of leather manufacture." In furtherance of these aims there have subsequently been opened another post-graduate research laboratory, a microscopical laboratory and a library, while the experimental tannery is being modernised and developed.

The rapid advance of scientific research creates a very pressing need for highly trained chemists and technologists in the leather and allied industries and the courses of study provided in the department have been reviewed in order to meet the needs of persons who wish to specialise either in the chemistry and technology of leather manufacture or in administration and technical management.

In co-operation with other Departments of the University instruction is provided which gives the student a thorough training both in pure science and in the chemistry and technology of leather manufacture. The practical study of manufacturing processes is also emphasised in the experimental tannery.

For those who wish to concentrate upon administration and technical management, courses covering the principles of industrial management and finance are given in the Department of Economics while the technology of leather manufacture is studied in the Department of Leather Industries.

The courses for the degree of B.Sc. and for the Diploma which are outlined below have been drawn up for students who wish to specialise in the chemistry and technology of leather manufacture and to take up careers as chemists or technical managers or representatives. All students taking these courses spend the greater part of their first

year in the study of general chemistry thus laying the foundation for the more specialised study of leather technology which occupies an increasing proportion of the syllabus as the courses advance. Those wishing to become fully qualified technological chemists, competent to undertake industrial research and to follow modern research developments, continue the study of chemistry throughout the course while those whose aims are more practical spend more time in the detailed study of manufacturing processes in the experimental tannery.

The pure sciences (including bacteriology), general engineering, industrial management, economics and languages are studied in the appropriate departments of the University and the Department of Leather Industries itself provides those courses of lectures and practical instruction necessary to show the details of processes used in making leather of various kinds.

The Department seeks to familiarise students with the principles underlying these processes and with the characteristics of the hides and skins at each stage of their conversion into the finished leather. The reasons why particular modes of treatment produce particular effects are explained by means of lectures and practical demonstrations in which small quantities of almost all kinds of leather of commercially saleable quality are produced. This enables the student to judge the causes of defects and the changes which are necessary to prevent or remedy them or to modify the leathers produced in such a way as may meet any special needs of the trade. At the same time he acquires a thorough knowledge of the materials used.

Methods of chemical, physical and microscopical analysis for determining the properties and values of these materials and for controlling stages of the various processes are taught and practised, and in the latter part of the course students are able to apply their knowledge of fundamental principles by attempting the practical production of the leathers in which they are interested, and to study the effects of variations in the smaller

details of the process. Special attention is paid to modern methods of leather dyeing and finishing.

The Department also provides extensive facilities for independent and post-graduate research in the science and practice of leather manufacture and has a growing school of research students.

The analytical laboratories and the experimental tannery are open daily to undergraduate students during the session from 9 a.m. to 1 p.m., from 2 p.m. to 5 p.m. and from 9 a.m. to 12 noon on Saturdays. Visits to works are frequently arranged and opportunities are given to sufficiently advanced students to work on branches of manufacturing processes in which they are specially interested, or to undertake scientific research in connection with the trade.

The research laboratories are open to graduates and certain other students during the vacations as well as during the terms.

EQUIPMENT

The Department is equipped for instruction and research in the science and practice of leather manufacture.

The experimental tannery which occupies the ground floor is gradually being modernised by the introduction of the latest equipment. It comprises a small model lime-yard, a vegetable tan-yard, a section for light leather tanning and dyeing, a control laboratory, a drying-room with temperature and humidity control, a machine-room containing most of the generally used machines and a finishing room equipped with a spraying plant.

The analytical laboratory and the professor's research laboratory are both on the first floor adjoining the Procter International Research Laboratories. The latter were erected in honour of the late Professor H. R. Procter, D.Sc., F.R.S., the first head of the Department, and, by the deed of foundation, are devoted to research in the fundamental chemistry and physics of leather manufacture.

The Atkin-Thompson Post-Graduate Research Laboratory, the microscopical laboratory, the library and the museum occupy the second floor.

Most of the chemicals, hides, skins and leather for experimental purposes are provided by the Department but larger quantities required for special experiment or research may be charged to, or provided by, students at the discretion of the Professor. A certain amount of ordinary chemical apparatus must be purchased by the student, who will also be held accountable for breakage of apparatus belonging to the University.

SCHEMES OF STUDY

The following schemes of study are arranged so as to give students the fullest advantage of the instruction provided by the University, and they must generally be adhered to. Time is allowed, however, for studying additional subjects, and special courses may be arranged for students who are suitably qualified. Some preliminary acquaintance with actual leather manufacture is an advantage before taking the University courses, and in no case is University training a complete substitute for practical experience in actual manufacture, though it usefully supplements it, and greatly lessens the time which is necessary to its acquirement.

Students are not admitted to advanced courses unless they have sufficient knowledge to follow them with advantage.

A candidate for a degree in any Faculty of the University as distinct from a diploma or other qualification must satisfy the requirements of the Joint Matriculation Board of the Universities of Manchester, Liverpool, Leeds, Sheffield and Birmingham. (Enquiries, preferably by postcard in the first instance, should be directed to "The Secretary, Joint Matriculation Board, 315, Oxford Road, Manchester, 13.")

Candidates for diplomas need not matriculate.

Special courses may also be arranged by the Head of the Department to meet the needs of students who cannot afford the time necessary for a degree or diploma course.

Scheme I. Course for the Degree of B.Sc. with Honours

First Year				Per week.
Introductory Chemistry	..	..	..	3 hrs.
Chemical Laboratory	..	..	..	12 "
Introductory Physics	..	..	..	3 "
Physics Laboratory	..	..	..	3 "
Principles and Methods of Leather Manufacture I				
(L. I.)	..	..	..	3 "
An additional subject	..	..	..	3 "

The additional subject must be selected in consultation with the Head of the Department.

Second Year				Per week.
Chemistry Gp (Physical)	..	..	..	3 hrs.
Chemistry Go (Organic)	..	..	..	3 "
Chemical and Leather Industries Laboratories				12 "
Materials used in Leather Manufacture (L. II)				3 "
Principles and Methods of Leather Manufacture				
II (L. VI)	..	..	..	3 "
Bacteriology (first term only)	..	..	..	9 "
Microscopy in Leather Manufacture (L. V)				
(second and third terms)	..	..	..	3 "

Third Year				Per week.
Chemistry Gi (Inorganic)	..	..	..	3 hrs.
Analytical Chemistry of Leather Manufacture				
(L. III)	..	..	..	2 "
Leather Dyeing and Finishing (L. IV)	..			1 "
Practical Leather Manufacture (L. VIII) and				
Leather Industries Laboratory	..	..		24 "

Fourth Year				Per week.
Physics and Chemistry of Leather Manufacture				
(L. VII) and Practical Leather Manufacture				3 hrs.
Leather Industries Laboratory (including some				
research work)	..	..	..	24 "

Students are strongly urged to obtain a reading knowledge of French and German before the end of this course.

Suitably qualified students may obtain exemption from the introductory courses in Chemistry and/or Physics and may then proceed to the degree of B.Sc. with Honours in three years.

Scheme II. Course for the Ordinary Degree of B.Sc.

The course, which extends over three years, consists of the first, second and third year sections of the Honours degree scheme.

A one year's course for Honours in the Chemistry of Leather Manufacture can be arranged for students who have obtained the ordinary degree of B.Sc. in this subject.

Scheme III. Course for the Diploma in Leather Manufacture

This course, extending over three years, is recommended to those who require a practical knowledge of the science and technology of the industry but are unable to take a degree course. Though not actually prescribed in the course, the study of Industrial Relations or some other subject approved by the Head of the Department is recommended and time is allowed for this.

A diploma may be granted upon a degree course on the recommendation of the Head of the Department provided that the subjects studied for the degree include those prescribed for the diploma and that the other conditions are complied with.

A student producing evidence of adequate previous scientific or practical training may, upon application to the Senate, be exempted from a portion of the normal course and may qualify for the diploma upon a shortened period of study.

First Year				Per week,
Introductory Chemistry	..	..	..	3 hrs.
Chemical Laboratory	..	..	..	15 "
Introductory Engineering	..	..	..	3 "
Principles and Methods of Leather Manufacture I (L. I)	..	..	..	3 "
Applied Economics for Technologists	..	..	..	1 "
An additional subject (to be approved by the Head of the Department)	..	..	..	3 "
Second Year				
Chemistry Go (Organic)	..	..	..	3 "
Materials Used in Leather Manufacture (L. II)	..	..	..	3 "
Principles and Methods of Leather Manufacture II (L. VI)	..	..	..	3 "
Microscopy in Leather Manufacture (L. V)	..	..	..	3 "
Organic Chemistry and Leather Industries Laboratories	..	..	..	15 "
Third Year				
Analytical Chemistry of Leather Manufacture (L. III)	..	..	..	2 "
Leather Dyeing and Finishing (L. IV)	..	..	..	1 "
Practical Leather Manufacture (L. VIII) and Leather Industries Laboratory	..	..	..	24 "

Scheme IV. Course for the Degree of B.Com. with the Chemistry of Leather Manufacture as a Principal Subject.

This three-year course is outlined on page 422 of the Calendar.

LECTURE COURSES

L. I. Principles and Methods of Leather Manufacture I.

Lectures and practical work on Mondays, Wednesdays and Fridays, at 9 a.m. throughout the session.

Lectures on the properties, defects and preservation of raw hides and skins and all the processes prior to tanning. Experiments by the students to make them acquainted with the changes taking place.

L. II. Materials Used in Leather Manufacture

Lectures on Mondays, Wednesdays and Fridays, at 12 noon throughout the session.

A general course on the occurrence, properties and uses of the materials used in the tannery.

The proteins present in hides and skins in relation to leather manufacture ; the problem of the water supply in the tannery, its treatment and effect on processes ; depilatories ; deliming materials ; natural and artificial bating materials ; vegetable tanning materials from chemical and commercial aspects ; synthetic tannins ; mineral tanning agents such as aluminium, chromium, iron and zirconium compounds ; masking agents in mineral tannages ; constitution of soaps, oils, fats and waxes and their application to leather manufacturing processes ; development of synthetic resins and their incorporation into leather ; properties of leather in relation to its constitution.

L. III. Analytical Chemistry of Leather Manufacture.

Lectures on Tuesdays and Thursdays at 11 a.m. throughout the session.

This course supplements the practical experience gained in the analytical laboratory.

The theory and practice of pH determination and its use in works control ; the analytical investigation of waters, liming and deliming materials, lime liquors, bates, pickles, tanning materials and liquors, gelatine, glue, soaps, oils, fats, waxes, sulphated oils, and tannery effluents ; chemical and physical methods for assessing the quality of mineral and vegetable tanned leathers and specifications relating to them ; an insight into the experimental methods used in research.

L. IV. Leather Dyeing and Finishing

Lectures on Tuesdays at 2 p.m. throughout the session.

The preparation of different types of leather for dyeing ; classification and properties of dyestuffs ;

methods of applying them to various kinds of leather ; finishing materials ; the properties and potentialities of water and nitrocellulose pigment finishes ; resin dispersions in finishing.

L. V. Microscopy in Leather Manufacture

Lectures and practical work at times to be arranged.

The use of the microscope in studying the histology of hides and skins and the changes taking place in processing ; photomicrography in the assessment of fibre structure and quality ; the identification and control of micro-organisms in liquors and leather ; entomology in the leather industry.

L. VI. Principles and Methods of Leather Manufacture II

Lectures on Mondays, Wednesdays and Fridays at 11 a.m. throughout the session.

The principles of the vegetable tanning process ; bleaching of tanning materials and extract manufacture, the production of sole, belting and split hide leathers ; durability of vegetable tanned leathers ; currying ; mineral, oil, formaldehyde and combination tannages ; textile and industrial leathers ; utilisation of bi-products and disposal of tannery waste. Modern methods of controlling the qualities of the leathers.

L. VII. Physics and Chemistry of Leather Manufacture

Lectures throughout the session at times to be arranged.

This course covers the fundamental chemical and physical changes occurring during the conversion of hides and skins into the different kinds of finished leather. The chemistry and structure of the skin proteins ; their reactions with acids, bases and salts ; the Donnan Equilibrium ; the Procter-Wilson theory of swelling ; the chemistry of the pretanning processes ; the chemistry of the vegetable tannins and theories of the tanning process ; chemistry of mineral tanning agents and their tanning action ; theory of formaldehyde and oil tannages.

L. VIII. Practical Leather Manufacture

Demonstrations and practical work at times to be arranged during the session.

Demonstrations of the processing of the various types of leather in the experimental tannery ; practical work involving the testing of dyes, the dyeing of samples and testing finishes ; the practical application by the student of fundamental principles in producing leather.

Post-Graduate Research

Graduates who satisfy the conditions stated in the Calendar may proceed to the higher degrees of Master of Science (M.Sc.), Doctor of Philosophy (Ph.D.) and Doctor of Science (D.Sc.).

Private Research

Persons prosecuting private industrial investigations under the supervision of the Head of the Department may be admitted as research students at the rate of £9 per month.

Evening Classes on Leather Manufacture

Full particulars of the classes may be obtained from The Director, Department of Adult Education and Extra-Mural Studies, The University, Leeds, 2.

DEPARTMENT OF AGRICULTURE

INTRODUCTION

Whilst practical demonstrations on the farm are an essential part of the teaching, no facilities are provided by the University for acquiring that practical acquaintance with farm operations and the business of farming which is essential for all who intend to follow an agricultural career—with the exception perhaps of those who intend to become specialists in the agricultural sciences, and it is a condition of entry to the courses for the ordinary degree of B.Sc., and for the University Diploma in Agriculture, that candidates shall have had a practical training for at least 12 consecutive months on an approved farm.

The Head of the Department will be glad to make appointments with prospective students and their parents in order to discuss with them the proposed course of study, and where necessary, to advise as to a suitable farm on which practical training may be obtained.

There are frequent enquiries about the careers of graduates in Agriculture. Some of these graduates, of course, become farmers and farm managers; a number become teachers and research workers; a few take up commercial posts, particularly with fertilisers and feeding stuffs firms, and quite a number in recent years have been appointed to the National Agricultural Advisory Service. In addition, some agricultural graduates take suitable post-graduate training, generally including a course at the Imperial College of Tropical Agriculture, and take appointments in the Colonial Service. There are some other possibilities, and a few graduates do not pursue agricultural careers.

SCHOLARSHIPS AND EXHIBITIONS

Most agricultural students in the past who have come to agricultural courses with scholarships have received their awards from the Local Education Authority

in whose area they have the necessary residential qualification. Particulars of such scholarships should be obtained from the appropriate Education Office.

For a number of years the Ministry of Agriculture has awarded a limited number of scholarships for degree courses, and particulars may be obtained from :

The Secretary,
Ministry of Agriculture and Fisheries,
1-4, Cambridge Terrace,
Regent's Park, London, N.W.1.

There is a certain limited number of general scholarships awarded by the University, the particulars of which are in the Scholarships prospectus.

COURSES OF STUDY

General Information

A Diploma Course for unmatriculated students is at present in abeyance.

The following courses are provided :—

- I. *Course for the Degree of B.Sc. The Degree may be awarded with Honours to candidates who attain a sufficient standard.*
- II. *Post Graduate Course for the University Diploma in Agriculture (Farm Management).*
- III. *Post Graduate Course for the University Diploma in Agricultural Bacteriology.*
- IV. *Post Graduate Course for the University Diploma in Agricultural Botany.*
- V. *Post Graduate Course for the University Diploma in Plant Pathology.*
- VI. *Post Graduate Course for the University Diploma in Agricultural Chemistry.*
- VII. *Post Graduate Course for the University Diploma in Agricultural Economics.*
- VIII. *Post Graduate Course for the University Diploma in Agricultural Zoology.*

Post Graduate Diplomas may be awarded with Distinction to candidates who attain a sufficient standard.

I. Course for the Degree of B.Sc.

Candidates will be required to have spent at least one complete year of 12 consecutive months on an approved farm before entering upon their course of study. Exemption will only be granted in exceptional cases. Candidates must attend the prescribed course of study and pass the appropriate examinations.

Course of Study

First Year.

Introductory Botany.
Introductory Chemistry.
General Economics.
Introductory Zoology.

Second Year.

Agriculture I, II and III (to be continued in the third year).
Agricultural Bacteriology F1.
Agricultural Economics F1.
Agricultural Zoology F1.

Either

Agricultural Botany S and
Agricultural Chemistry G1

or

Agricultural Chemistry S and
Agricultural Botany G1.

Third Year.

Agriculture, I, II and III.
Agricultural Botany or Agricultural Chemistry G2.
Agricultural Economics, F2.
Agricultural Zoology, F2.
Veterinary Hygiene, F1.

(Agricultural students taking a G1 course in the second year must take the G2 course in the same subject in the third year.)

Examinations

First Year.

Examinations prescribed in the Subjects taken

Second Year.

Agricultural Botany or Agricultural Chemistry S (1 paper).
Agricultural Botany or Agricultural Chemistry G1 (1 paper,
1 practical examination).
Agricultural Bacteriology (1 paper, 1 practical examination).
Agricultural Economics F1 (1 paper).
Agricultural Zoology F1 (1 paper)

Third Year.

Agriculture I (1 paper).

II (1 paper).

III (1 paper).

Agricultural Economics F2 (1 paper)

Agricultural Botany or Agri- { 1 paper

cultural Chemistry G2 { 1 practical examination).

Agricultural Zoology F2 { 1 paper

{ 1 practical examination)

Veterinary Hygiene F1 (1 paper).

Oral examinations will be held as and when necessary.

II. Post Graduate Course for the University

Diploma in Agriculture (Farm Management)

The Post Graduate Diploma Course in Agriculture is intended for persons who have already taken a Degree in Agriculture and who wish to undertake further study in the subject of Farm Management. In addition to more advanced tuition in Crop and Animal Husbandry students will receive special training in Farm Management to give them a better appreciation of those principles on which the efficiency of farming depends.

The course should be of special value to all who are :—

- (a) preparing to enter the National Agricultural Advisory Service as District Officers or as Advisers in Farm Management.
- (b) intending to farm on their own account.

The course is open to all Graduates in Agriculture whose standard of attainment in the subjects of Agriculture and Agricultural Economics is satisfactory. Applicants for the course are required to satisfy the Head of the Department that they have worked for at least twelve consecutive months on an approved farm and have an adequate knowledge of practical farming.

Candidates for the Diploma are required to :—

- (a) give satisfactory attendances in the subjects which form part of the course of study, including attendance at farm classes, demonstrations and excursions ;

- (b) 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;
- (c) to submit a thesis on a subject to be approved by the Professor of Agriculture. Three copies of the thesis must be received by the Registrar not later than 31st May in each year.

Course of Study

First Term. Hours per week.

Agriculture	2
Farm Management	6
Agricultural Economics	2
Statistics	2
Teaching Method	2
Colloquium	3
Field work and private investigation ..	9
Total	26

Second Term.

Agriculture	4
Farm Management	6
Agricultural Economics	2
Statistics	2
Colloquium	3
Field work and private investigation ..	9
Total	26

Third Term.

Agriculture	4
Farm Management	6
Agricultural Economics	2
Colloquium	3
Field work and private investigation ..	12
Total	27

NOTES.—(1) Each student will be given personal supervision by a tutor.

(2) Each student will prepare and deliver at least one paper during the session.

Examination

- Paper I. Crop and Animal Husbandry.
II. Agricultural Economics.
III. Farm Management.
-

**III. Post Graduate Course for the University
Diploma in Agricultural Bacteriology**

The course is intended for persons who have successfully graduated in Agriculture, and who are desirous of obtaining specialised training in the various branches of Agricultural Bacteriology.

The course will be of special value to students intending to go into :—

- (a) The National Agricultural Advisory Service or the Milk Testing Scheme of the Ministry of Agriculture.
- (b) Research and control work at Research Institutes, dairy and food industries, where a specialised knowledge of soil, water and dairy bacteriology is required.
- (c) The teaching of Agricultural Bacteriology.

The course is open to graduates in Agriculture whose standard of attainment in the subjects of Agricultural Bacteriology, Agricultural Botany and Agricultural Chemistry is satisfactory.

Candidates for the Diploma are required to :—

- (a) Give satisfactory attendances in the subjects which form part of the course of study ;
- (b) Satisfy the examiners appointed by the University in the examination held at the conclusion of the course. The examination will comprise four papers three in Agricultural Bacteriology and one in Bacterial Chemistry, together with a practical examination in Agricultural Bacteriology ;

- (c) Submit a short thesis on a subject approved by the Senior Lecturer in Agricultural Bacteriology. Three copies of the thesis must be received by the Registrar not later than 31st May in each year.

Course of Study

<i>First Term.</i>				Hours per week.
Agricultural Bacteriology	..	..	..	14
Bacterial Chemistry	..	..	..	7
Statistics	..	..	..	2
Agricultural Botany	..	..	..	1
Veterinary Hygiene	..	..	..	1
Total				25
<hr/>				
<i>Second Term.</i>				
Agricultural Bacteriology	..	..	..	17
Bacterial Chemistry	..	..	..	7
Statistics	..	..	..	2
Total				26
<hr/>				
<i>Third Term.</i>				
Agricultural Bacteriology	19
Bacterial Chemistry	7
Total				26
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IV. Post Graduate Course for the University Diploma in Agricultural Botany

The Post Graduate Course in Agricultural Botany is primarily intended for those who have graduated with satisfactory attainments in pure Botany who wish as research workers, teachers or advisers to develop careers in Agricultural Botany.

The course is open to graduates in Botany who have satisfied the Head of the Department that they are suitable candidates for the course.

Candidates for the Diploma are required to :—

- (a) give satisfactory attendance in the subjects which form part of the course of study, including attendance at farm classes and excursions ;

- (b) 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.

Course of Study					
<i>First Term.</i>					
Agricultural Botany ..	..	..	..	..	18
Agriculture ..	..	..	..	..	2
Farm Class ..	..	..	..	..	3
Statistics ..	..	..	..	..	2
Total ..					25
<i>Second Term.</i>					
Agricultural Botany ..	..	..	..	..	18
Agriculture ..	..	..	..	..	2
Farm Class ..	..	..	..	..	3
Agricultural Zoology ..	..	..	..	..	1
Statistics ..	..	..	..	..	2
Total ..					26
<i>Third Term.</i>					
Agricultural Botany ..	..	..	..	..	25
Total ..					25

V. Post Graduate Course for the University Diploma in Plant Pathology

The Post-Graduate Course in Plant Pathology is primarily intended for those who have graduated with satisfactory attainments in pure Botany and who wish to follow a career either in research, as teachers, or as field workers in Plant Pathology.

REGULATIONS.

The course is open to graduates in Botany who have satisfied the Head of the Department of Agriculture that they are suitable candidates for the Course.

Candidates for the Diploma are required to :—

- (a) give satisfactory attendance at the lectures and

practical classes that form part of the course and to attend such field instruction as may be arranged.

- (b) 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.

Course of Study

(25 hours a week.)

The course 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 course is intended to give a sound introduction to the scientific study of plant diseases with special consideration of the problems they present in actual crop husbandry practice. Field work will form an essential part of the course.

VI. Post Graduate Course for the University Diploma in Agricultural Chemistry

The Post Graduate Course in Agricultural Chemistry is primarily intended for those who have graduated with satisfactory attainments in pure Chemistry, who also have some general knowledge of Agricultural Chemistry, and who wish, as research workers, teachers or advisers, to develop careers in Agricultural Chemistry.

The course is open to all graduates in Chemistry who have :—

- (a) passed the examinations of the University of Leeds in Agricultural Chemistry G₁ and G₂—either on the normal degree papers or on special papers to be taken in September—or who have passed equivalent examinations in another Institution in Agricultural Chemistry which are acceptable to the Professor of Agricultural Chemistry ;

- (b) satisfied the Head of the Department that they are sufficiently interested in the field of agricultural studies to justify entering it as specialists in Chemistry.

Candidates for the Diploma are required to:—

- (a) give satisfactory attendance in the subjects which form part of the course of study, including attendance at farm classes and excursions;
- (b) 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 four-day practical examination in Agricultural Chemistry.

Course of Study

<i>First Term.</i>				Hours per week.	
The Chemistry of Soil	..	..	..	3	
The Chemistry of Nutrition	..	..	..	3	
Agriculture	..	..	..	2	(Tutorial)
Farm Class	..	..	..	3	
Agricultural Bacteriology	..	..	..	1	
Statistics	..	..	..	2	
Colloquium	..	..	..	3	
Laboratory	..	..	..	12	
Total				29	

<i>Second Term.</i>				Hours per week.	
The Chemistry of Soil	..	..	..	2	
The Chemistry of Nutrition	..	..	..	2	
The Chemistry of Fertilizers, Fungicides and Insecticides	..	..	..	2	
Agriculture	..	..	..	2	(Tutorial)
Farm Class	..	..	..	3	
Agricultural Bacteriology	..	..	..	1	
Statistics	..	..	..	2	
Colloquium	..	..	..	3	
Laboratory	..	..	..	12	
Total				29	

<i>Third Term.</i>				Hours per week.	
The Chemistry of Soil	..	..	..	3	
The Chemistry of Nutrition	..	..	..	3	
The Chemistry of Fertilizers, Fungicides and Insecticides	..	..	..	1	
Colloquium	..	..	..	3	
Laboratory	..	..	..	15	
Total				25	

VII. Post Graduate Course for the University Diploma in Agricultural Economics

The Post Graduate Diploma Course in Agricultural Economics is designed to train Honours Graduates in Economics as research workers, teachers and advisers. This course would fit graduates for teaching and research work in the Universities, including the Provincial Agricultural Economics Service. It would also be a suitable training for posts in government departments of food and agriculture, official commissions, producers' marketing boards, international organisations and the colonial service.

The course is open to persons who have graduated with satisfactory attainments in Economics and who wish to specialise in Agricultural Economics.

Candidates for the Diploma are required to :—

- (a) give satisfactory attendance in five of the subjects which appear in the following syllabus, at farm classes and excursions. Three of these courses, "Production and Distribution of Agricultural Income," "Statistics" and "Agriculture" will be compulsory ;
- (b) satisfy the Examiners appointed by the University in the examination to be held at the conclusion of the course. The examination will comprise four 3-hour papers ;
- (c) present a thesis on a subject to be approved by the Head of the Agricultural Economics Section.

Course of Study

	Hours per week,
1. Production and Distribution of Agricultural Income	2
2. Statistics	2
3. Agriculture	2
Two of the following :—	
4. Rural Social Organisation	2
5. Economics of Farm Management	2
6. Land Economics	2
7. Marketing of Agricultural Products	2
Farm Class	3
Tutorials and private investigation	

VIII. Post Graduate Course for the University Diploma in Agricultural Zoology

The Post Graduate Course in Agricultural Zoology is primarily intended for those who have graduated with satisfactory attainments in pure Zoology who wish as research workers, teachers or advisers to develop careers in Agricultural Zoology.

The course is open to all graduates in Zoology who have :—

- (a) pursued a suitable course in Entomology ;
- (b) satisfied the Head of the Department that they are suitable candidates for the course of study.

Candidates for the Diploma are required to :—

- (a) give satisfactory attendance in the subjects which form part of the course of study, including attendance at farm classes and excursions,
- (b) 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.

Course of Study					
<i>First Term.</i>					Hours per week.
Agricultural Zoology	..	..	..	..	18
Agriculture	..	..	..	..	2
Farm Class	..	..	..	..	3
Statistics	..	..	..	..	2
Total					25
<hr/>					
<i>Second Term.</i>					
Agricultural Zoology	..	..	..	..	18
Agriculture	..	..	..	..	2
Farm Class	..	..	..	..	3
Agricultural Botany	..	..	..	..	1
Statistics	..	..	..	..	2
Total					26
<hr/>					
<i>Third Term.</i>					
Agricultural Zoology	..	..	..	..	25
Total					25
<hr/>					

The B.Sc. course covers three sessions. The estimated minimum cost is :

	First Year			Second Year			Third Year		
	£	s.	d.	£	s.	d.	£	s.	d.
Registration Fee ..	2	0	0	—	—	—	—	—	—
Composition Fee ..	44	0	0	48	0	0	48	0	0
Examination Fees :									
University Degree ..	3	0	0	3	0	0	—	—	—
Graduation Fee ..	—	—	—	—	—	—	7	0	0
Contribution to Students' Union				Included in composition fee					
Fees for maintenance at University Hostels for men	III	0	0	III	0	0	III	0	0
(The figure is a few pounds less for women)									
Estimated charges not made by the University :									
Railway fares, etc., for farm classes, 2nd and 3rd years	—	—	—	6	0	0	8	0	0
Subscriptions to individual sports societies, say	I	0	0	I	0	0	I	0	0
Books, stationery, etc.	15	0	0	8	0	0	8	0	0
	<u>£176 0 0</u>			<u>£177 0 0</u>			<u>£183 0 0</u>		

The post graduate courses cover one session. The tuition fee is £48 and the examination fee is £3.

Apparatus Deposits

Undergraduate students must pay at the beginning of each session a deposit of 50s. to cover the cost of replacing broken apparatus, etc. This deposit will be paid with the Tuition Fee and will be repaid at the end of the session after deducting cost of breakages, etc.

Microscopes may be had on loan from the University at the following charges :—

First year : £1 is. a session for Botany only ;
£1 10s. for Botany and Zoology.

Second year : £1 10s. per session.

Third year and post-graduate course : £1 per session.

Prizes

Certain prizes are available each year. Full particulars can be seen in the University Calendar and on the departmental notice board. Particular attention is drawn to the Seton Prize, the British Oil and Cake Mills Prize and the Yorkshire Agricultural Society Medal.

Farm Classes

Undergraduate students and some post-graduate students will be required to attend Farm Classes, which are held in various parts of the county. Undergraduate classes are usually held on one half-day a week but may occasionally involve a whole day.

SYLLABUSES

For syllabuses of Courses in the Introductory Sciences of the first year of the course of study for the degree of B.Sc. see prospectuses of appropriate departments.

Agriculture

I

115 lectures.

A. CROP HUSBANDRY.

Introduction.—

The Basis of Agriculture.

Outline of organisation of British Agriculture in relation to climatic, soil and economic factors.

Agronomy and Husbandry Practice: the influence of available labour and power on production techniques.

Elements of Agronomy.—

Yield: components of; its importance in farm economy; quality in produce.

General relationship between crop and environment.

Basic Factors affecting yield: positive and negative factors.

Influence of Climate on Crop Production: Micro-climates.

Influence of Soils on Crop Production: Inherent fertility; soil management; maintenance of fertility.

Influence of Biotic factors on Crop Production: Plant population; mixed crops; weed competition; diseases and pests.

Crop Species and Variety.

General Husbandry Practices as applied to British conditions.—

Soil Erosion and its control: Marling and strip cropping.

Warping; irrigation; drainage.

Lime and Liming.

Inorganic Manuring: Optimal applications for the main crops under British conditions; placement of fertilisers; residual fertilisers.

Organic Manuring: Farmyard manure; straw; folded crops; Green manuring; grass, clover and other leys.

Weed Control.

Rotations.

Cultivations: seed bed production.

Husbandry Practices for the main British crops.—

Production of cereal, pulse, root and fodder crops: cultivation, manuring, harvesting, storage; varieties in current use; control of negative factors.

Production from Grassland: types, factors affecting yield. Grassland improvement, management and conservation. The relationship between the animal and grassland. Special problems associated with Hill areas.

Horticulture.—

Outline of Husbandry practices in relation to Horticulture in Great Britain.

Methods of investigation.—

Surveys and field experimentation.

Layout of field experiments and the interpretation of results.

B. FARM MACHINERY

Development of farm machinery in British agriculture and its influence on farming organisation.

Main types of tractor ; their selection and operation ; tractor toolbars.

Ploughs ; cultivators ; harrows.

Fertiliser distributors ; broadcast sowers ; seed drills.

Transplanters ; potato planters and harvesters ; root harvesters.

Silage and hay harvesting machinery ; grass driers.

Corn harvesting machinery ; corn driers.

Machinery for the preparation of foods ; dairy machinery.

Use of electricity in agriculture.

Farm transport.

Care and maintenance of farm machinery ; initial costs, running costs and replacement of farm machinery.

Development and economic aspects of farm mechanisation.

Drainage and ditching machines ; use of Gunter's chain and Dumpy Level for drainage purposes ; preparation of drainage plans ; Ordnance Survey maps.

II

110 lectures.

ANIMAL HUSBANDRY

The place of livestock in British agriculture ; distribution and economic importance of the main types ; livestock in relation to soil fertility ; utilisation of grass and other crops by farm livestock.

Principles of breeding ; the basis of heredity ; in-breeding, line breeding and cross-breeding ; selection ; records of performance ; progeny testing and the proven sire.

Livestock improvement ; pedigree livestock ; shows and showyard standards ; official schemes ; artificial insemination.

Meat production in relation to growth, conformation and nutrition ; carcase quality.

Selection, preparation and use of the common feeding stuffs for different classes of stock.

Horses.—Place of the horse on the farm ; characteristics of the principal breeds ; qualities of a good farm horse ; feeding and stable management.

Horse breeding ; selection of brood mare and stallion ; management of mare and foal ; rearing and breaking ; costs of production.

Dairy Cattle.—Characteristics and functions of the dairy and dual-purpose types ; dairy and dual-purpose breeds ; their development, characteristics and economic value.

Selection of dairy cows ; points of conformation ; milk recording ; value and interpretation of milk records ; selection of the herd sire.

Housing, feeding and general management of cows, young stock and bull ; special dairying systems.

Methods of milking ; handling of milk and clean milk production ; dairy legislation ; graded milks ; milk marketing ; processing and distribution of milk ; dairy products ; costs of milk production.

Beef Cattle.—Development and economic importance of beef cattle in Great Britain ; the beef type ; conformation ; carcase quality.

Beef breeds : characteristics and economic value.

Systems of management for beef production ; pedigree and commercial herds ; sources of store cattle.

Breeding, rearing and feeding of all classes of beef cattle ; production of baby beef and fattening of mature cattle in yards and on grass ; costs of production ; marketing.

Sheep.—Importance of sheep in the development of British agriculture ; classification, characteristics and economic value of the British breeds of sheep ; requirements of the breeder, feeder and butcher.

Systems of sheep farming ; general management of mountain and lowland breeding flocks ; fat lamb production ; fattening of hogs on roots and on grass ; cost of production ; marketing.

Wool ; its production, grading and marketing.

Pigs.—Pork and bacon production ; breeds of pigs and their selection to meet the requirements for the various classes of pork and for bacon ; carcase cuts and carcase quality ; bacon curing.

Selection of breeding stock and its management under outdoor and indoor systems ; specialised pig-keeping.

Rearing, feeding and general management for pork and bacon ; costs of production ; marketing.

Poultry.—Economic importance of the poultry industry ; systems of poultry farming : extensive, semi-intensive and intensive.

Principal breeds : characteristics and value for both table and egg production.

Selection of breeding stock and culling ; rearing, feeding and general management for fattening and for egg production.

III

60 lectures.

FARM ORGANISATION AND MANAGEMENT

Systems of farming ; control and management of the farm.

Factors influencing the value of a farm ; lay-out and equipment ; permanent and temporary buildings ; water supplies ; drainage ; fences ; hedges ; shelter belts.

Forms of tenancy ; legislation affecting landlord and tenant ; entering, stocking and equipping a farm ; tenant right ; valuation. Capital requirements.

Farm labour and its management.

Marketing of stock and produce.

DEMONSTRATION CLASSES

Visits to farms in Yorkshire to study typical examples of different cropping and stocking policies, also to commercial undertakings connected directly with farming, *e.g.* sugar beet factory, bacon factory, engineering works, etc.

Post Graduate Diploma (Farm Management)

Results of recent research in Crop and Animal Production and their bearing on current farming methods and systems. Examination of the main arable and grassland problems with special reference to the maintenance of fertility, production of cash crops and food for livestock, and the control of weeds, pests and diseases. Detailed study of the productive efficiency of the various classes of farm livestock in relation to improved methods of breeding, feeding, housing and control of diseases. National agricultural policy and recent legislation.

The economic principles underlying successful Farm Management. Types of Farm Management data, their collection and uses. The organization of Farm Management work in Great Britain and other countries.

Comparative study of the specialised farming enterprises and the influence of specialisation on the cropping and stocking of farms. The assessment of good husbandry ; critical appraisal of cropping and livestock policies on selected farms.

Statistics

Introduction to the principles of statistics. Analysis of variance ; tests of significance ; correlation and regression. Types of lay-out ; Latin squares, randomised blocks, simple factorial experiments.

Design of experiments and the practical procedure to be followed. The special problems of animal experimentation. Presentation, interpretation and significance of results.

Agricultural Bacteriology

FI

Two lectures and 3 hours laboratory work a week.

(a) *An introduction to General Bacteriology*.—Bacterial morphology and physiology. Bacterial variation. Bacteriological technique, including the preparation and use of media, staining methods, and the isolation of pure cultures. The morphological and cultural characters of bacteria. Bacterial classification. Bacteriology of water and sewage. Immunity and disease.

(b) *The Bacteriology of Milk*.—Numbers and types of bacteria in milk. Abnormalities in milks. Milk processing and its effect on the microflora. Isolation of starter organisms. The bacteriology of dairy products. Designated milks. The National Milk Testing and Advisory Scheme. Dye-Reduction tests. Bacteriophage. Detergents and disinfectants. Bacteriological aspects of common diseases of farm animals. Milk-borne diseases. Mastitis.

(c) *The Bacteriology of Soil*.—The soil population and variability of soil counts. Physiological groups of bacteria and their influence on the composition of the soil. Soil conditions and their effects on the microflora. Partial sterilisation. The bacteriology of manure and silage.

Post Graduate Diploma

General Bacteriology.

Preparation of special media. Advanced aspects of morphology and cytology.

Physiology—enzyme systems—decomposition of proteins, carbohydrates and fats. Industrial fermentations.

Classification—identification of members of outstanding groups. Bacterial variation, dissociation, association.

Antibiotics and chemotherapeutic substances.

Bacteriophage.

Water, Sewage and Air.

Types, treatment and detailed analysis of water supplies.

Sewage—method of treatment—types of organisms and their function.

Methods of quantitative air analysis—air disinfectants.

Soil.

Population and variability of soil counts—function of bacteria in soil and their relation to those of fungi and actinomycetes.

Studies of special groups concerned in soil fertility including those involved in nitrifying, denitrifying, nitrogen fixing, cellulose decomposing and urea fermenting processes. Iron and Sulphur bacteria. Isolation of pure cultures from above groups. Partial sterilisation. Manure. Silage.

Dairy Bacteriology.

Milk—isolation and identification of bacteria. The qualitative and quantitative distribution of bacteria and factors controlling their growth and activity. Taints and abnormal flavours.

Pasteurisation—effect on flora. Processing of milk—condensing, evaporating, drying. Fermented milks.

Cheese—bacteriological changes during ripening of different varieties. Ice-cream.

Immunity and Disease.

Immunity and its practical applications. Serological reactions. Use in disease diagnosis.

Bacteriology of Animal Diseases.

Bovine tuberculosis, mastitis, contagious abortion, anthrax, pyogenic and clostridial infections.

Statistics

(as under Agriculture).

Agricultural Botany**S**

Three hours a week.

An introduction to the morphology of British cereals, root, pasture and field crops with particular emphasis on characters of agricultural importance. The botanical characters of the associated weeds.

The vegetative and floral characters of the more important British grasses.

Recent advances in crop improvement.

The practical application of plant physiological principles—dormancy, light, and temperature relations, winter-hardiness.

Diseases of crop plants. An introduction to plant pathology based on diseases of economic importance in this country.

Gr

Three lectures and 4 hours laboratory work a week.

Crop Plants.

1 The taxonomy and comparative morphology of cereals, legumes, root and fodder plants grown in Britain.

2. The botanical characters of the principal species, varieties and strains of British grasses with special reference to their identification.

3. The physiology of crop plants in relation to environmental factors. Photoperiodism—phasic development—dormancy—the plant in relation to water.

4. Seeds. Purity and viability of seed samples. Seed analysis, methods of testing. The problem of dormancy in seeds.

5. *Ecology.*

Plant ecology in relation to agriculture. Grass-land associations of significance in British farming.

G2

Three lectures and 5 hours laboratory work a week.

Plant Pathology.

1. An introduction to the study of disease in plants. Resistance and susceptibility. Diseases of economic importance. Control measures—Fungicides and their use.

Plant Breeding.

2. Principles and methods—the application of genetics to plant breeding. Recent developments in crop improvement.

Weeds.

3. Common weeds of grass and arable crops—their identification and control. Botanical aspects of weed destruction. Poisonous, injurious and parasitic plants.

Microscopy of Feeding stuffs.

4. The microscopic examination of selected feeding stuffs.

Post Graduate Diploma

Crops.

Morphology, anatomy, physiology, ecology of agricultural crop plants. Studies of weeds in relation to farm practice.

Botanical analysis of animal feeding stuffs.

Plant Breeding.

Plant breeding as applied to farm crops.

Recent trends and methods in plant improvement.

Plant Pathology.

The plant in relation to disease, methods of control. Study of the chief pathogens of agricultural crops.

Experimental technique.

Post Graduate Diploma (Plant Pathology)

A brief introduction to the history of plant pathology.

The structure, reproduction and classification of fungi with special reference to plant pathogens.

Laboratory methods. The culture and handling of fungi, culture media, isolations, single spore cultures, the recording of data, spore and other measurements.

The physiology and genetics of fungi. Nutritional requirements, host parasite relationships, mutation, hybridization, racial specialisation. Breeding for host resistance.

The principles of plant pathology. The influence of environment and other factors on the development of disease in the field. The production and dissemination of inoculum. Epidemics.

Bacterial plant diseases, their symptoms and control in the field and the culture and study of the causal organisms.

The relationship of insects to plant diseases.

Virus diseases. General characteristics of virus diseases, their symptoms, spread, identification and control. The nature of plant viruses.

Nutritional and deficiency diseases, symptoms, occurrence and correction of selected examples affecting agricultural and horticultural crops.

The study of disease in the field. Inoculation techniques, controlled experiments. The recording of results. Disease measurement.

The chemistry of fungicides.

The control of plant diseases. Fungicides, their application and action. Soil sterilization.

The interaction of soil organisms and its effect on higher plants, antibiosis, mycorrhiza.

A survey of field and other diseases with special emphasis on current problems.

Agricultural Chemistry**S**

Soil formation—effects of climates—virgin soils—mechanical analysis—organic matter, humification and nitrate formation—soil colloids—base exchange and soil acidity—soil water and drainage—soil air—soil temperature—soil structure.

Plant food—soil analysis—lime requirement—pot and plot experiments. Soil deterioration—soil mapping.

Composition and manufacture of fertilisers.

The chemical composition of feeding stuffs and of the animal—the analysis of feeding stuffs.

Digestion and digestibility—the absorption, transport, and utilisation of food constituents by the animal—excretion of waste products.

The animal as a converter of matter and of energy—maintenance and production.

Nutritive values of foods and nutritive requirements of animals.

Feeding standards, their usefulness, and limitations. The chemistry of milk, butter and cheese.

Gr

Two lectures and 6 hours laboratory work a week.

1. *The Soil as a Natural Object—Pedology.*

The physics and chemistry of rock weathering—organic matter and humification—effects of climate and geology on the disposition of soil-forming constituents—the genetic classification of virgin soils—podsoils—brown earths—rendzinas—chernozems—laterites—alkali soils—gley formation.

2. *Soil Material.*

The mineral particles—primary and secondary clay minerals—mechanical analysis—mineral colloids—organic matter, humification—colloidal properties of soil—nitrate formation—soil water—soil air—soil temperature.

3. *Cultivation of Soils in Relation to Fertility.*

The soil and the plant—soil structure—mineral plant food—nitrogenous plant food—lime status—soil analysis—pot experiments—plot experiments—classification of cultivated soils.

4. *Cultivation of Soils in Relation to Deterioration and Erosion.*

Conditions of declining fertility—types of erosion—soil conservation.

5. *Soil Surveys.*

6. *Fertilisers and Manures.*

G₂

Two lectures and 6 hours laboratory work a week.

Animal Nutrition.—The Literature of Animal Nutrition and Dairy Science. The Composition of the Animal Body and of the Feeding Stuff. Digestion and Digestibility. Absorption. Circulation, Respiration and Excretion. The Metabolism of Proteins, Fats and Carbohydrates. The Minerals and Vitamins. The Methods used in ascertaining the Nutritive Values of Foods and the Nutritive Requirements of Animals—Feeding Trials—Comparative Slaughter Tests—Carbon, Nitrogen, Energy and Mineral Balance Experiments—Calorimetry, Gross, Metabolisable and Nett Energy—Starch Equivalents—Nett Energy Values—Feeding Standards. The Calculation of Rations. The Feeding Stuff: their Classification, Manufacture, Composition, Monetary and Manurial Value.

Dairy Products.—Full chemical and physical description of milk; the variations in its composition and the factors influencing this. Preservation, and adulteration of milk. Colostrum. Cream. Chemistry of cheese-making and cheese ripening. Whey. Theory of butter manufacture. Composition and adulteration of butter. Butter milk.

Students in the Special Studies School of Chemistry who take agricultural chemistry as an "additional course" are required to take the G₁ and G₂ lectures but not the laboratory work.

Post Graduate Diploma

The Chemistry of Soils.—

The development of empirical and scientific knowledge of the uptake of food elements of plants, and the problems of soil analysis involved in this.

Soil formation.

Clay minerals and the colloidal properties of clay—properties of larger fractions—soil reaction and base exchange—reactions of anions with soil.

The aggregation of soil particles—soil structure.

Soil water.

Soil air.

Soil microorganisms and the formation of humus—nitrogen changes in soil. The chemistry of the mineral elements of plant nutrition.

Soil classification and the genetic groups—soil geography.

The deterioration of soil.

Methods of soil survey.

Principles involved in soil management and the control of fertility.

The chemistry of fertilizers, insecticides and fungicides.

The Chemistry of Nutrition.

The chemistry of enzymes.

Cell chemistry. Biological oxidations. Biophysical phenomena.

The digestion, absorption, and metabolism of fats, carbohydrates, and proteins.

The utilisation of inorganic substances.

The vitamins.

Energy metabolism. Maintenance and production.

The chemistry of growth, reproduction, lactation, egg production, muscular work, wool production.

The determination of the nutritive values of foods and the nutritive requirements of animals.

Feeding standards, and their application to feeding practice.

The chemistry of milk and dairy products.

Agricultural Economics

F1

Two lectures a week.

(a) *History*.—Pre-manorial times. The manor and agriculture under the manorial system. The decay of the manor. The Tudor Enclosures and the Domestic System. Improvements in Farming. The Second Enclosure Movement and the Industrial Revolution. The passing of the yeoman farmer and the appearance of the landless labourer. Farming in the 19th Century. The Napoleonic Wars. The depression that followed them. The Poor Laws, the Corn Laws, Tithe. The "golden age" of English farming. The depression of the 'eighties and 'nineties. 1900-1914. First World War period. 1921-1931. 1931-1939. The History of Small Holdings and Land Settlement.

(b) *Farm Management*.—The importance on profits of types of farming, size of business and efficiency factors. Factors that influence types of farming. Measurement of size of farm business. Efficiency Factors. Methods of studying farm management problems: cost accounts, financial accounts, farm surveys, enterprise costs. Intensity of production. Specialised v. Mixed farming. The balance of a farm.

F2

Two lectures a week.

(a) *Marketing*.—The rise of marketing in a money economy. The functions of marketing. Assembly and distribution. The services of middlemen. The general level of prices. Agricultural prices and the special

conditions governing them. Supply and demand for agricultural commodities. Index numbers of prices and production.

Organised marketing. Produce Exchanges. The Agricultural Co-operative Movement. The Agricultural Marketing Acts. Developments in war-time and post-war marketing under the Ministry of Food. The Annual and Special Reviews of Agricultural Prices. The Lucas Report.

Credit. The Credit needs of Agriculture. Sources of supply. Legislation.

(b) *Economic Theory applied to Agriculture.* The Factors of Production. Land—Tenure, Rent, Law of Diminishing Returns. Farm Layout. Capital—Landlord's and Tenant's; Equipment, Livestock and growing crops, Requisites; Capital Investment in British Agriculture. Labour—Hired and family labour. The Division of Labour. Efficiency of labour. Mechanisation. Wages in Agriculture. The State of Agriculture. Quotas, Tariffs, Subsidies. Special conditions of Demand and Supply in Agriculture.

Comparative Agriculture. Farming in Europe and the New World. Agriculture and Food Policy.

Post Graduate Diploma

1. *Production and Distribution of Agricultural Income.* Economic characteristics of agricultural industry. The organisation of the factors of Production—land, labour and capital. Combination of factors in farming enterprises and combination of enterprises. Diminishing Returns and Intensity of Production. Economics in relation to size of farm. Gross and Net Output of the agricultural industry. Agricultural Income and its distribution. Rent in agriculture. Contract and Economic Rent. Wages and conditions of work. Methods of labour remuneration; statutory regulations. Provision of capital and credit. Farming profits. Government policy in relation to agriculture. Sources of economic information.

2. *Statistics.* Courses to be taken in the Departments of Mathematics and Economics.

3. *Agriculture*. Course to be designed by the Department of Agriculture.

4. *Rural Social Organisation*. The history and structure of rural society. The development and function of groups. Leadership in the rural environment. Educational, religious and social institutions. Economic organisations in agriculture and related industries. Town and country connections. The agricultural and rural population. Women in rural society.

5. *Economics of Farm Management*. Scope and method. Recording and accounting. Types of farming in relation to national and economic factors. Research and advisory work. Economic analysis of separate enterprises. The combination of enterprises. Capital and Labour requirements of types of farming. Labour organisation and management. Division and delegation of work and responsibility. Work simplification. Mechanisation. Factors of efficiency. Physical and economic efficiency. External economic factors in Management.

6. *Land Economics*. Nature and scope. Characteristics of land. Land classification. Major land uses. Land use planning and control.

Agricultural land use. Agricultural settlement. Types of farming. Permanent equipment of land for specific farming purposes. Systems of land tenure. Landlord and tenant relationship in Great Britain. Capital and rental values of land. Principles of valuation. Land credit. Taxation. Economics of soil depletion, conservation, reclamation and improvement.

7. *Marketing of Agricultural Products*. Demand for food products and demand curves. Levels of food consumption by income groups and by countries. Seasonality of demand. Supply of food products in Great Britain: seasonality. Methods of marketing and processing various products. Producer, middleman and state organisations. The prices of agricultural products; distributors' margins. Price fixing and imperfect competition. Tariffs, subsidies and quotas: supply restriction schemes: organised international marketing of food products. International Food and Agricultural Organisations.

Agricultural Zoology**F1****FARM ANIMALS.**

Two lectures a week and occasional demonstration classes.

(a) *Anatomy & Physiology*.—The function and microscopic structure of the tissues of the body. The anatomy and physiology of the skeletal, digestive, circulatory, excretory, respiratory and nervous systems of the horse, ox, sheep and pig. The structure and function of the skin and associated organs, the organs of special sense and the endocrine glands.

(b) *Development*.—The anatomy of the reproductive system of the farm animals. The reproductive cycle. Pregnancy. Development of the embryo. Parturition. The mammary glands and lactation. Post-embryonic development.

(c) *Behaviour*.—The habits of farm animals with special reference to grazing and food selection.

F2**PESTS OF CROPS AND STOCK.**

Two lectures and 2 hours laboratory work a week.

(a) *General Entomology*.—Anatomy, physiology and development of insects. Classification and biology of important insect orders.

(b) *Plant Pests*.—Identification, life history and control of important plant pests—insects, arachnids, myriapods, molluscs and plant parasitic nematodes.

(c) *Parasitology*.—Recognition and bionomics of external parasites of domestic animals—insects, mites and ticks. Structure and classification of trematodes, cestodes and nematodes. Recognition, life history and bionomics of the more important internal parasites of domestic animals—insects and helminths.

(d) *Birds and Mammals*.—Recognition and agricultural status of common species.

(e) *Principles of Control*.—Principles of animal ecology. Relationship of pests to their environment. Cultural and biological methods of control. The nature and use of insecticides. Legislative measures.

Post Graduate Diploma

A.

1. The identification, bionomics and control of the more important insect, acarine, myriapod and molluscan pests of agricultural and horticultural crops.

2. The structure and classification of the free-living and plant-parasitic nematodes. The bionomics and control of the chief nematode pests of agricultural and horticultural crops.

3. The agricultural importance of small mammals and birds.

4. The role of insects as vectors of plant diseases.

B.

A short course on the principal internal and external parasites of farm animals.

C.

1. The factors determining the origin, spread and abundance of agricultural pests, including the influence of climate, wild hosts, natural enemies and host resistance.

2. The general principles of pest control, e.g., cultivations, cropping, chemical control, physical and mechanical methods, biological control, legislation.

Veterinary Hygiene

The anatomy and physiology of farm animals. A general outline of the more important diseases which affect domesticated animals including methods adopted for control and prevention. The legislation concerning certain animal diseases which are serious to animals or man.

FACULTY OF MEDICINE

1952-53

The Academic year in the School of Medicine consists of the following terms in 1952-53 :—

First Term : 7th October to 19th December.

Second Term : 13th January to 20th March.

Third Term : 21st April to 3rd July.

ADMISSION OF STUDENTS

The classes and laboratories are open to men and women on the same terms.

Forms of application may be obtained from the Senior Administrative Officer, School of Medicine, Leeds, 2, or the Registrar, the University, Leeds, 2, and must be returned completed before April 30th of the year in which entry is sought.

Preference in the admission of students will be given to suitably qualified men and women who have served in the Armed Forces or have been engaged in important civilian work to which they were directed under the National Service Acts.

Admission of other men and women to the medical course will be subject to such regulations of the Ministry of Labour and National Service as may be in force at the time. Such regulations may involve application for deferment being made to the Joint Recruiting Board by intending men students whilst still at school.

Continued deferment of men students is conditional upon their making satisfactory progress in their studies, and the University is required, at six-monthly intervals, to furnish the Ministry of Labour with a certificate that each student is fulfilling this condition.

In general a certificate of satisfactory progress will not be given if a student has been referred twice in the same examination, whether of the University or of some Licensing Body. Failure to appear at an examination without adequate reason will be treated as equivalent to a failure.

Except in cases approved by the Vice-Chancellor, students must have reached the age of 17 before coming to the University.

All candidates for admission to the University who have been at a school or other educational institution within one year of their application for admission are required to produce a certificate of good conduct and of fitness for entrance to the University from the Head Master or Head Mistress of the School, or from the Head of the Institution which they have last attended. All others are required to have their application endorsed by some responsible person of whom enquiry may be made.

In all cases students are urged to consult their Head Master or Head Mistress before presenting themselves for admission to the University. Premature entry upon a University course is greatly to be deprecated, and power is retained to refuse admission on grounds of immaturity even in the case of those who have passed the entrance examinations.

Fees may be paid either in the Dean's Office, Medical School, or in the Fees' Section, the Parkinson Building. Cheques should be made payable to "THE UNIVERSITY OF LEEDS." The composition fees for lecture and laboratory courses may be paid either sessionally in advance, or (with certain exceptions) terminally by instalments. Fees paid by instalments are at a slightly higher rate than when paid in advance. The terminal instalment scales of fees are not applicable to students ordinarily resident outside the British Isles; such students must pay fees sessionally in advance.

All applicants for admission must attend for interview at times to be arranged.

PRESCRIBED COURSE OF STUDIES FOR MEDICAL STUDENTS

Students who have fulfilled the entrance requirements of the Northern Universities' Joint Matriculation Board or who have passed a recognised alternative examination in general knowledge are registered with the General Medical Council on passing or on obtaining exemption from the pre-registration examination in chemistry and physics. Thereafter they require to spend five years on a prescribed course of studies, three of which shall be clinical years.

The full medical curriculum may be divided into two periods, the pre-clinical and the clinical. The pre-clinical period, approximately two years and six months in length, is spent in the study of organic and physical chemistry, physics, botany, zoology, anatomy, physiology. The final period of three years is devoted to pharmacology and pharmacy, pathology and bacteriology, and the various clinical subjects, including hospital practice.

The regulations of the School of Medicine of the University of Leeds require that in general the professional examinations be passed at the prescribed periods. Students must pass the examinations of one period before they are permitted to commence the studies of that which follows.

The curriculum is arranged for the purpose of giving a thorough and complete medical education and to this end all lectures and classes (as well as the clinical appointments) must, unless by express permission of the Dean, be taken in the order indicated in the "Normal Course," and no part of the course is to be looked upon merely as a formality necessary for "signing up."

The following is the arranged distribution of hours between the School and the Infirmary: School, 9—10, 12—2, 4—5; Infirmary, 10—12, and 2—4. Students are expected to leave their work at one institution so as to be punctual at the other if they have lectures or classes (or clinical appointments, as the case may be) to attend.

When the final examinations have been passed, the student will be advised by the Senior Administrative Officer concerning the steps he should take to obtain provisional registration under the Medical Act, 1950.

The attention of students is drawn to the possibility of combining the medical course with courses of study for an Honours Degree of B.Sc. in Anatomy, Bacteriology, Pharmacology or Physiology. Details of such courses are given in the prospectus of the Faculty of Science. Information as to the possibility of combining the medical course with that for an Honours Degree of B.Sc. in Biochemistry should be sought from the Professor of Biochemistry, School of Medicine, Leeds, 2. Students intending to combine courses should consult the Head of the Department concerned before beginning the medical course.

GENERAL REGULATIONS FOR STUDENTS

1. Arrangements for the enrolment of first year students are announced by the Registrar. All other students are required to enrol at the Dean's office on or before the opening day of each session. Students who from any unavoidable cause are prevented from personally attending at that time must communicate with the Senior Administrative Officer by letter.

2. All students in regular attendance who are not living with their parents, or with relatives or personal friends, will be required to reside either at some Hall of Residence or Hostel approved by the University, or in registered lodgings, or in lodgings which, if not registered when taken by the student, shall receive the approval of the University. Students taking lodgings which have not been registered are required to report immediately to the Supervisor of Lodgings for approval the address of such lodgings. Students who have taken registered lodgings are required to inform the Supervisor of Lodgings beforehand if they desire to move into other registered lodgings.

Should a student change his residence during the Session, he must inform the Senior Administrative Officer of the change of his address without delay.

3. Regular, punctual and orderly attendance at Lectures, Demonstrations and Class-examinations is required of every student, in order to obtain certificates of attendance. In the case of persistent neglect of work, repeated failure at professional examinations or unreasonable delay in presenting himself for such examinations, a student may be required to withdraw from the University.

Examination dates, lecture times and other information relating to the course are announced on the notice-boards in the School, which should be referred to by all students from time to time.

4. In cases of illness or other unavoidable cause of non-attendance at any Lecture, Demonstration or Class examination, a written explanation, accompanied, when necessary, by a medical certificate, must be sent to the Senior Administrative Officer with as little delay as possible; otherwise excuses for absence cannot be accepted. Hospital work is not an excuse for non-attendance upon lectures except in the case of students on duty in the Receiving Room, or in attendance upon cases of Midwifery. Consequently students must not take any resident hospital appointments which involve absence from lectures or classes in the School, unless they have previously informed and obtained the permission of the Senior Administrative Officer.

5. Every student in the School of Medicine must possess a microscope by the end of the first week of the session. The microscope shall be the personal property of the student.

Microscopes may be purchased privately or in accordance with arrangements made between the University and manufacturers.

Microscopes must be of an approved type.

Further details may be had on application to the Secretary of the Medical School.

6. Jewish Holy Days.

(a) Any student who is unable for religious reasons to carry out his University work or examinations on Saturdays and Jewish Holy Days, must give notice of this fact in writing to the Registrar and the Senior Administrative Officer not later than 1st November in each session.

(b) It is the responsibility of such students to inform themselves as to what work has been done in any classes from which they are absent and to take appropriate action.

(c) Every effort will be made to avoid arranging examinations on Saturdays and Jewish Holy Days for students who have given notice as suggested in (a) above, but the University reserves the right to hold examinations on such days if no alternative time is convenient.

7. Smoking is not allowed in the Lecture Theatres, Class Rooms, or Laboratories, except with the express permission of the Professor or Lecturer in charge.

8. Students will be required to make good, to the satisfaction of the Council, any loss, wilful damage or injury they may occasion to the property of the University.

9. Students in the School of Medicine are subject to the discipline and general regulations of the University, as well as to the rules made by the Board of the Faculty of Medicine. Violation of these regulations and rules renders a student liable to immediate dismissal and to the forfeiture of all fees, certificates and privileges as a student of the University.

10. Prior to entering the School every student is required to sign the following declaration :

If admitted a Student in the Faculty of Medicine of the University of Leeds, I undertake to comply with all rules and regulations of the University, and to conduct myself on all occasions in an orderly manner. I fully understand that no allowance whatever will be made, and that I have no claim upon the Council of the University in respect of any fees paid by or due from me, in case such fees are forfeited by any irregularity or misconduct on my part.

ORDINANCE VI

DEGREES OF BACHELOR OF MEDICINE AND BACHELOR OF SURGERY

1. The degrees in Medicine and Surgery shall be : Ordinance

Bachelor of Medicine and Bachelor of Surgery
(M.B., and Ch.B.)

Doctor of Medicine (M.D.)

Master of Surgery (Ch.M.)

Doctor of Philosophy (Ph.D.)

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 five years and six months, two of such years at least having been passed in the University.

3. In order to qualify 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, and must satisfy the Examiners in the several subjects of the following examinations, entitled respectively :

The First Examination.

The Second Examination.

The Final Examination.

1. Unless specially exempted by the Senate, candidates Regulations
for the degrees of M.B., Ch.B., are required to present evidence of having passed in Mathematics† and Chemistry

*Full information is contained in the Joint Matriculation Board's pamphlet on University Entrance Requirements, 1951-55, obtainable from Messrs. John Sherratt and Son (Publishers), Park Road, Timperley, Cheshire.

† Although the Ordinary syllabus and the 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 the Alternative Ordinary syllabus.

at the Ordinary Level in a General Certificate of Education examination, or of possessing approved equivalent qualifications*

General Attendance

2. During the first five years, a year of medical study must include in each term attendance upon at least two of the prescribed courses of lectures or laboratory work, or one such course and hospital practice, if that year is to count as part of the degree course. 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.

Examinations

3. Except as provided below, candidates must present themselves for examination or re-examination in all the subjects prescribed for any examination or part of an examination at one and the same time. Candidates who have failed (a) in any subject of the First Examination or (b) in Anatomy or Physiology at the Second Examination or (c) in any subject of Part I, II or III of the Final Examination may be exempted from re-examination in such subjects of the respective examinations as the appropriate Examination Committee may determine.

First Examination

Ordinance 4. The first Examination shall consist of four subjects—Botany, Chemistry, Physics, Zoology.

5. Candidates, before presenting themselves for the First Examination must have satisfied the requirements for entry upon a degree course as laid down by the Joint Matriculation Board, and must furnish evidence of having attended courses of instruction in accordance with the Regulations of the University.

* (i) A pass in Chemistry at subsidiary standard in a Higher School Certificate examination and a pass in Mathematics at subsidiary standard in a Higher School Certificate or at credit standard in a School Certificate examination are approved equivalent qualifications.

(ii) Candidates who have passed examinations in Physics and in Chemistry of at least principal standard of the Higher School Certificate but who have only attained a pass standard in Mathematics in a School Certificate examination will be considered for entry to the medical course up to and including the session 1953-54.

6. The names of candidates who have satisfied the Examiners in the First Examination shall be published in alphabetical order.

First Examination

1. Candidates for the First Examination are required to furnish evidence of having attended approved courses of instruction at the University or at an institution recognised for this purpose by the University; or of having attended, at some other institution, courses of instruction accepted as equivalent by the Senate. Regulations

2. The courses of instruction shall be as follows :

1. Physics : Lectures and laboratory work—at least three terms.
2. Inorganic and Physical Chemistry : Lectures and laboratory work—at least three terms.
3. Organic Chemistry : Lectures and laboratory work—at least three terms.
4. Zoology : Lectures and laboratory work—at least three terms.
5. Botany : Lectures and laboratory work—at least three terms.
6. Mathematics for medical students—at least three terms.

3. The examinations will normally be held in June, and each will include laboratory work.

4. 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.

5. Candidates will not be allowed to proceed with the courses in Anatomy and Physiology of the second year until they have passed the whole of the First Examination.

Exemption from Subjects of the First Examination

6. Candidates who have obtained a sufficiently high mark in Physics and/or Botany at the Advanced level in a General Certificate of Education Examination (or

who have approved equivalent qualifications)* may apply for exemption from the course and examination in the corresponding subject or subjects of the First Examination.

7. Candidates who have passed in Chemistry at the Advanced level in the General Certificate of Education Examination (or who possess approved equivalent qualifications) may be excused from part of the course in Chemistry.

IMPORTANT NOTICE

Candidates who fail to reach a sufficient standard in the class examination in Chemistry at the end of the first term, may be transferred to a special course. Such candidates, if successful in the examinations at the end of the first year, will be allowed to complete the course for the First Examination during the next session.

Second Examination

Ordinance 7. The Second Examination shall consist of two subjects:
Anatomy
Physiology.

8. Candidates, before presenting themselves for the Second Examination, are required to have passed the First Examination and to furnish evidence of having attended courses of instruction in accordance with the Regulations of the University.

9. The names of candidates who have satisfied the Examiners in the Second Examination shall be published in alphabetical order. Distinctions may be awarded in individual subjects.

Second Examination

Regulation 1. Candidates for the Second Examination are required to furnish evidence of having attended courses of instruction approved by the University in Anatomy and Physiology. The evidence must show (i) that

* Passes with a sufficiently high mark at principal standard in a Higher School Certificate examination or in the 1st M.B., B.S., or Intermediate B.Sc. Examinations of the University of London are approved for this purpose.

dissection has been practised throughout not less than five terms, (ii) that approved laboratory instruction in Physiology has been received.

2. The courses of instruction shall be as follows :—

Anatomy, including the gross and minute structure of the body, embryology, neurology, living anatomy and radiological anatomy, and histology—at least five terms.

Physiology, including biochemistry—at least five terms.

Psychology—at least one term.

3. The examination will normally be held in March. Examiners will take into account duly attested practical work done during the courses in Physiology and Biochemistry.

4. Candidates who fail to satisfy the Examiners in any subject of the examination must, before being re-admitted to examination, produce evidence of having pursued such further study as may have been required by the Examination Committee.

N.B.—Courses in additional and optional non-medical subjects will be arranged during the second year of the medical course. Full particulars can be obtained from the Senior Administrative Officer.

Final Examination

10. The Final Examination shall consist of three Parts: Ordinances

Part I. Pathology and Bacteriology.
Pharmacology.

Part II. Forensic Medicine.
Public Health.

Part III. Medicine.
Surgery.
Obstetrics and Gynæcology.
Therapeutics and Pharmacy.

Part I will normally be taken two years after the Regulations commencement of the clinical period.

Part II may not normally be taken until after the completion of two years and nine months of clinical study.

Part III may not be taken before the end of the third clinical year nor before the completion of five years and six months of medical study.

Parts I, II and III may be taken in any order provided that Part III is not taken until Part I has been passed.

Ordinance

11. Candidates, before presenting themselves for any Part of the Final examination, must furnish certificates of having attended courses of instruction, in accordance with the Regulations of the University.

12. The names of candidates who have satisfied the Examiners in Parts I, II or III of the Final examination shall be published in alphabetical order.

13. The names of candidates who have satisfied the Examiners in all the subjects of the Final examination, and are recommended for degrees, shall be published as follows :—

1. Those awarded First Class Honours.
2. Those awarded Second Class Honours.
3. Those who have satisfied the Examiners.
The names shall be in alphabetical order in each case.

Final Examination

Regulations

Candidates must furnish certificates of having attended courses of instruction approved by the University and taken in the University or in a Medical School recognised for this purpose in the subjects in which they offer themselves for examination.

Candidates are required to furnish certificates as follows :—

- A. In respect of lectures and laboratory work.
 1. Pathology and Bacteriology, five terms.

2. Pharmacology and Pharmacy, six terms.

The certificates in Pathology and Bacteriology, Pharmacology and Pharmacy, must in all cases testify that the candidate has attended courses of laboratory instruction in these subjects, approved by the University.

3. Medicine, four terms.

Mental Diseases, one term.

Infectious Diseases, one term.

Children's Diseases, one term.

4. Surgery, four terms.

Ophthalmology, Otology and Laryngology, one term.

Orthopædic Surgery, one term.

5. Obstetrics and Gynæcology, two terms.

The certificate in Obstetrics and Gynæcology must in all cases testify that the candidate has attended courses of practical instruction, approved by the University, in the use of obstetrical and gynæcological instruments.

6. Clinical Pathology, one term.

7. Forensic Medicine, one term.

8. Public Health, one term (including visits to places of importance in the study of Public Health).

9. Therapeutics, one term.

10. Radiology and Radio-therapy, one term.

11. Applied Anatomy, one term.

B. In respect of hospital work.

1. In Medicine and Surgery, of having attended subsequent to the date of passing the second examination, the medical and surgical practice of a hospital or hospitals, approved by the University, during at least three years.

2. In Pathology and Morbid Anatomy, of having attended during at least two terms demonstrations in the post-mortem room of a hospital, including practical instruction.
3. In Obstetrics, (a) of having 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 (b) of having personally conducted not less than twenty cases of labour, subsequently to having acted as surgical dresser and medical clinical clerk.

The certificate must in all cases (a) testify that such attendance has been given under the direct supervision of a medical officer of the hospital, and (b) regarding the personal conduct of cases of labour, be signed by a member of the staff of a hospital or a maternity charity.

4. In Gynæcology, of having, during at least three months, received in either a general or a special hospital, approved by the University, such clinical instruction in the diseases peculiar to women as shall be approved by the University.
5. Of having received clinical instruction in the diseases of children.
6. Of having received clinical instruction in Orthopædic Surgery.
7. Of having received clinical instruction in diseases of the eye, ear, throat and skin and in venereal disease.
8. Of having received instruction in the administration of anæsthetics.
9. Of having acquired proficiency in vaccination.
10. Of having acted as a surgical dresser for six months, as a clinical medical clerk for six months, and as a clerk for three months in the post-mortem room of a hospital recognised by the University.

Subjects of Examination.

1. ***PATHOLOGY AND BACTERIOLOGY.***

Candidates will be examined practically on Bacteriology, Pathological Anatomy, Histology and Chemistry.

2. ***PHARMACOLOGY.***

3. ***MEDICINE : SYSTEMATIC AND CLINICAL, INCLUDING MENTAL DISEASES AND DISEASES OF CHILDREN AND SKIN DISEASES.***

Candidates, in order to pass, must satisfy the Examiners in the clinical part of the examination.

4. ***SURGERY : SYSTEMATIC, CLINICAL AND PRACTICAL, INCLUDING ORTHOPÆDIC SURGERY, OPHTHALMOLOGY, OTOTOLOGY, RHINOLOGY AND LARYNGOLOGY.***

Candidates will be examined on the use of surgical instruments and apparatus, and on museum preparations; they may also be required to perform operations on the dead body.

Candidates, in order to pass, must satisfy the Examiners in the clinical part of the examination.

5. ***OBSTETRICS AND GYNÆCOLOGY : SYSTEMATIC, CLINICAL, AND PRACTICAL.***

Candidates will be required to shew their practical acquaintance with obstetrical and gynæcological manipulations and instruments by the use of the phantom or otherwise and will also be examined on museum preparations.

Candidates in order to pass, must satisfy the examiners in the clinical part of the examination.

6. ***FORENSIC MEDICINE AND TOXICOLOGY.***

Candidates may be required to determine the character of stains and stained fabrics, microscopically and chemically, and to recognise poisonous articles of the *materia medica*.

7. ***PUBLIC HEALTH.***

8. ***THERAPEUTICS AND PHARMACY.***

In determining the award of Honours the results of the Second as well as of the Final examination will be considered.

Distinctions may be awarded in individual subjects in the Final examination.

Candidates who fail to satisfy the Examiners in any subject of the examination must, before being re-admitted to examination, produce evidence of having pursued such further study as may have been required by the Examination Committee.

DEGREE OF DOCTOR OF MEDICINE

Ordinance

14. 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.

15. 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. If the thesis is of a sufficiently high standard the Degree may be awarded without further examination but candidates normally shall be required to pass an examination. If the thesis or published work fails to reach an adequate standard the candidate may be rejected without further examination.

16. The names of candidates who have been approved for the degree of Doctor of Medicine shall be published in alphabetical order and, in cases of exceptional merit, the Degree may, on the recommendation of the examiners, be awarded with distinction.

Regulations

1. Each candidate must submit the title of his thesis or published work for the approval of the Board of the Faculty of Medicine.

2. Such approval having been obtained a candidate must send to the Registrar, not later than 1st April or 1st October in any year, an application to be examined accompanied by three copies (printed or type-written) of his thesis or published work including illustrations. In the event of the degree being awarded, one complete copy of the thesis shall be retained.

3. 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.

4. A candidate submitting work previously published under joint authorship shall be required to indicate to the satisfaction of the Senate his own share in the joint publication.

5. The examination may include, at the discretion of the examiners, any or all of the following :—

(a) One written paper in each of two of the following :—

(i) General Medicine.

(ii) A branch of medicine related to the subject of the candidate's thesis.

(iii) The relevant medical sciences.

(b) Relevant clinical or practical examinations ;

(c) An oral examination which will in general be confined to the subject matter of the thesis or published work.

6. Applications (see Regulation 2) are to be made on a special form to be obtained from the Dean's Office, School of Medicine, and must be accompanied by the examination fee of £10.

7. Candidates will be informed, not later than the 1st June or 1st December after receipt of their thesis, whether or not they are required to appear for an examination and as to the scope of the examination they will be required to take. Examinations will be held in March and September.

DEGREE OF MASTER OF SURGERY

1. 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 contained in the following articles.

2. Candidates for the degree of Master of Surgery are required to pursue in the University or in any other approved University or Institution a course of advanced study and research for two years, one year of which may be part-time.

3. On completing the course of advanced study and research, candidates are required :—

- (a) To present a thesis on the subject of their advanced study and research and to satisfy the examiners that it contains work worthy of publication and of sufficient merit to qualify for the degree of Master of Surgery.
- (b) To submit themselves for an oral examination on matters relevant to their thesis and, if required, for a written examination and to satisfy the examiners in the examination as well as in the thesis presented.

Regulations

1. 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.

Before entry on the course of advanced study and research, a candidate is required to submit to the Board of Medicine for its approval an outline of the proposed course of advanced study and research and to present evidence satisfactory to the Board of Medicine that he is qualified to undertake the proposed course.

NOTE.—A candidate is advised to consult the Professor of Surgery before making application to the Registrar.

2. A candidate, during the course of advanced study and research, will be allowed to undertake only a limited amount of outside work, which, in the judgment of the Board of the Faculty of Medicine, will not interfere with the prosecution of the proposed course of advanced study and research.

3. A candidate will not be permitted to submit as his thesis one for which a degree has been conferred upon him 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 to the University for

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

4. 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 his 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 will be retained in the University Library.

CERTIFICATE AND DIPLOMA IN PUBLIC HEALTH

The University grants a Certificate and a Diploma in Public Health to practitioners registered with the General Medical Council. The conditions are set out in the regulations below.

All communications regarding the C.P.H. and D.P.H. should be addressed to the Senior Administrative Officer, School of Medicine, Thoresby Place, Leeds, 2.

Regulations

1. A period of not less than two years shall elapse between the attainment by a candidate of a registrable medical qualification and commencing study for the Certificate or for the Diploma, subject to the reduction of this period to one year in favour of (1) any practitioners who satisfy the authorities of the University, on special application, that there is good reason for exempting them from the general requirements, and (2) any practitioners who are required by law to have held compulsory pre-registration House Appointments for one year after passing a final examination in Medicine, Surgery, and Midwifery.

2. The curriculum for the Diploma shall extend over a period of not less than 18 calendar months of part-time study, which must be subsequent to the attainment of a medical qualification.

3. The examination shall be in two parts, the Preliminary and the Final Examinations; each will be held in March and on one further occasion in each session.

4. Every candidate before admission to the Preliminary Examination shall produce evidence of satisfactory and regular attendance on a Preliminary course of 300 hours during two academic terms of not less than ten weeks of part-time study—systematic and practical, in:

- (a) The history of Public Health and Public Assistance; the evolution of central and local authorities in relation

thereto ; the evolution of the law in relation to Health, Public Assistance, and Social Security, with a general knowledge of legal powers and duties.

- (b) The existing functions of central and local authorities and voluntary organizations, and the nature and objects of the Public Health and Medical Services they administer including practical instruction during visits to places and institutions of importance to Public Health.
- (c) Social Security, and the agencies for the relief of poverty and the promotion of social welfare.
- (d) International health organizations.
- (e) The nature and sources of information bearing on the health of the people, and its numerical presentation. The preparation of memoranda and scientific articles containing statistical data.
- (f) The causal agents of infection, their sources and control, including exercises in the solution of epidemiological problems.
- (g) The influence on physical and mental health of environment, including house and occupation, economic circumstances and nutrition and personal hygiene.
- (h) Physical education.
- (i) The influence of heredity on health.
- (j) The principles of Health Education.

5. The preliminary examination shall include four written papers and an oral examination in the subjects specified in regulation 4.

6. A certificate in Public Health shall be granted to candidates who have passed the Preliminary examination.

7. Every candidate, before admission to the Final examination shall produce :

- I. Evidence of having been awarded a Certificate in Public Health.
- II. Evidence of satisfactory and regular attendance on a Final course covering a period of not less than 550 hours during three academic terms of part-time study systematic and practical in :
 - (a) Physiology, Biochemistry, Food and Nutrition, in relation to Public Health.
 - (b) Bacteriology, Parasitology and Medical Entomology, as applied to epidemiology.
 - (c) Mass Aspects of Disease. Administrative measures in relation to communicable and other diseases.

- (d) Sanitation, Water Supplies, Housing, Town and Country Planning, and the application of scientific principles thereto.
 - (e) Statistical Data and Methods.
 - (f) Interpretation of Plans.
 - (g) Administration. Organization and Management of Medical Departments and Institutions.
 - (h) The law relating to Public Health.
 - (i) Mental Health Services.
 - (j) Occupational Health.
 - (k) Methods of educating the public as to the promotion and maintenance of health.
- III. Evidence of having either (a) resided and received instruction for four weeks in a Hospital for Infectious Diseases approved by the University or (b) attended satisfactorily and regularly and received instruction at such an approved Hospital for one Term; and that in either case such instruction was received during the late autumn, winter or spring.
- IV. Evidence of having attended during a period of not less than five months at the Health Department of the Local Authority of an area approved by the University and of having personally observed and studied the daily work of each section of the Department under the guidance of administrative, technical, and executive officers of the Authority.
- V. (a) A Day-Book in which he has made regular entries relating to subjects in which practical instruction is given during the course, and brief observations on the objects of such instruction and the conclusions to be drawn therefrom.
- (b) A dissertation on an approved subject.

8. Candidates may be exempted by the University from instruction under 7, III, provided that they have served for not less than six months as Resident Medical Officer in an approved Hospital for Infectious Diseases and under 7, IV, provided either that they have held a whole-time appointment for not less than twelve months in the Department of Health of the Local Authority of an area approved by the University; or that they are holding a part-time appointment at such a Department throughout any period during which they are receiving systematic instruction under regulation 7 and are regularly receiving guidance from appropriate officers of

the Authority ; and that the duties under the terms of appointment were or are such as to enable them to acquire a knowledge of Public Health administration at least equivalent to that which would be acquired under 7, IV.

9. The Final examination shall include :
 - four written papers in the subjects specified in Regulation 7, II ;
 - a clinical examination in Infectious Diseases ;
 - an oral examination in Infectious Diseases, Epidemiology and General and Special Hospital Administration ;
 - a practical examination in Bacteriology ;
 - an oral examination in Public Health.

Dissertations presented by candidates shall be read by Examiners and Day-Books shall be made available to them. In assessing marks, Examiners shall take into account (a) the Day-Books as duly attested records of work done, and (b) the merit of Dissertations.

10. Every candidate who has passed both parts of the examination shall receive a Diploma in Public Health.

The diploma may be awarded with distinction to a candidate whose work is adjudged to be of outstanding merit.

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 course before re-examination :

The fees for the courses and examinations shall be :

Preliminary course (two terms) part-time	..	£20
Final course (three terms) part-time	.. ..	£35
The complete course (five terms)	.. ..	£55
Examination (or Re-examination) fee :		
Preliminary	.. .. .	£5
Final	.. .. .	£10

NOTE.—The Courses will not be held unless six or more students have enrolled for the D P.H. course.

DIPLOMA IN PSYCHOLOGICAL MEDICINE

Preamble

The University grants a Diploma in Psychological Medicine to practitioners registered with the General Medical Council. The conditions are set out in the regulations below.

All communications regarding the D.P.M. should be addressed to the Senior Administrative Officer, School of Medicine, Thoresby Place, Leeds, 2.

1. The examination for the Diploma is in two parts, consisting of written, oral, practical, and clinical tests of the candidate's proficiency.

2. Before being admitted to the *First Part* of the examination, candidates must produce evidence :—

- (i) of having attended, after obtaining a registrable qualification, approved courses of instruction in the subjects of the examination over a period of one session (three terms) in the University ;
- (ii) 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.

(Note.—(i) and (ii) may be taken concurrently.)

3.—The subjects of study for the First Part of the examination shall be :—

- (1) General and social psychology and the elements of cultural anthropology.
- (2) The anatomy, histology and embryology of the nervous system.
- (3) The physiology and biochemistry of nervous activity.

4. The examination for the First Part will be held in September and March, 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.

5. Before being admitted to the *Second Part* of the examination, a candidate must have passed the First Part of the examination and fulfilled the following requirements :—

(A) He must show evidence of having completed not less than two-and-a-half years in the special study of psychological medicine, including :—

- (i) Eighteen months' approved whole-time practice in mental hospitals or other institutions approved by the University where clinical instruction is given ;
- (ii) One term's approved practice in an institution for the mentally deficient where clinical instruction is given ;
- (iii) Two terms' 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 ;
- (iv) One term's approved practice in a centre for child guidance and child psychiatry where clinical instruction is given ;
- (v) One term's approved clinical instruction in clinical neurology.

(ii, iii, iv and v) may be taken during the tenure of the appointment under (i).

(B) Candidates must present evidence of having attended approved courses of instruction in the following subjects :—

- | | |
|--------------------------|-----------------------------|
| (a) General Psychiatry | (d) Psychopathology and |
| (b) Neurology, including | psychotherapy |
| Neuropathology | (e) Child psychiatry |
| (s) Mental Deficiency | (f) Medico-legal psychiatry |

NOTE.—Courses of instruction may be taken concurrently with the tenure of clinical appointments.

6. Academic courses must normally be taken within the University. Such courses will not be held for fewer than four candidates.

7. The Second Part of the examination, to be held in March and September, shall be in the subjects specified in paragraph 5(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.

8.—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.

9.—The fees for the courses and examinations shall be:—

Courses—for First Part	..	40 guineas.
for Second Part	..	60 guineas.
Examination (or Re-examination)	First Part	.. 5 guineas.
	Second Part	10 guineas.

10. Application for admission to either Course should be made by July 15th of the preceding session, and should be accompanied by a deposit of 10 guineas. The applicant will be informed by July 31st whether, or not, the Course in question is to be held ; in the latter event, the deposit will be returned.

11. Entries for either Part of the examination must be submitted, upon the prescribed form, not later than February 1st and July 15th, for the March and September examinations respectively, and must be accompanied by the appropriate examination fee, together with certificates showing the candidate to have completed the requirements—academic and institutional—for the examination.

12. A list of the successful candidates in each Part of the examination will be published in alphabetical order.

13. 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.

DIPLOMA IN NURSING
IMPORTANT NOTICE

The Regulations for the Diploma in Nursing are in course of revision. Details may be obtained from the Dean's office, the School of Medicine.

Regulations

1. Each candidate who satisfies the examiners shall receive a Diploma and shall be styled a Diplomat in Nursing, University of Leeds.

2. Before a candidate can be accepted for the course her name must appear in the general part of the Register of Nurses.

3. Before taking the examination candidates must *either* have completed four years training in a general hospital recognised by the University for the purpose *or* have completed three years training in an approved general hospital and (after obtaining the State Certificate) have gained two years further experience of a character approved by the University.

4. Candidates must have obtained a School Certificate, or have passed at ordinary standard in four subjects taken at the same time in the General Certificate of Education, one of these subjects being English and one being Mathematics, or they must present evidence of having attained a standard of general education at least equivalent to this.

5. Candidates must attend a part-time course of study in the University extending over 3 terms.

6. The examination shall be held in September and in March, but the latter examination will not be held unless there are three or more candidates.

The examination shall be by written papers, *viva voce* and/or practical work.

7. A mark of distinction may be awarded provided a candidate obtains 75 per cent. in General Nursing and in Special Subject chosen and either (a) 75 per cent. in one other subject or (b) 65 per cent. in two other subjects.

A failure in any part or subject at any time debars a candidate from gaining distinction.

8. The examination shall consist of two parts, which may be taken separately or together. If taken separately Part I must be passed before proceeding to Part II. Part II may not be taken until 2 years after state registration.

Part I—an examination in the following subjects :—

- (1) Hygiene and communicable diseases : bacteriology (written and *viva voce* examination.)
- (2) Nutrition and dietetics (written examination).
- (3) Psychology (written examination).
- (4) Social economics (written examination).

Part II—an examination in the following subjects :—

- (1) General medical and surgical nursing.
- (2) One of the following branches :—
 - (a) Medical nursing.
 - (b) Surgical nursing.
 - (c) Child health and the nursing of sick children.
 - (d) Obstetric and gynæcological nursing.
 - (e) Fever nursing and epidemiology.
 - (f) Mental nursing.
 - (g) Public Health nursing.
 - (h) Industrial nursing.
 - (i) Home nursing.
 - (j) Hospital administration.
- (3) Nursing Administration—the examination under this heading to be related to the branch chosen under Paragraph 2—General nursing administration, Public Health nursing administration, Industrial nursing administration, Administration in relation to midwifery.

NOTES.

(c) Candidates offering this subject must have spent one year as a nurse in an approved children's hospital or children's wards, or in approved infant welfare work.

(d) Candidates offering this subject must have spent not less than one year in an approved maternity hospital or in the gynæcological or obstetric department of an approved general hospital.

(e) Candidates offering this subject must have spent not less than one year as a nurse in an approved fever hospital.

(f) Candidates offering this subject must be State registered mental nurses.

(g) Candidates offering this subject must hold the Health Visitors' Certificate.

(h) Candidates offering this subject must hold a recognised certificate in this subject, or present evidence of having spent at least two years in the practice of industrial nursing.

(j) Candidates offering this subject must have held an approved administrative post for not less than one year.

Subjects of the Course for the Diploma in Nursing.

9. In addition to the instruction received by nurses at their training school and hospital, candidates shall be required to attend the following three-term course of instruction :—

<i>First term.</i>	Hours
Psychology	30
Social economics	20
Nutrition and dietetics	30
<i>Second term</i>	
Bacteriology and Pathology	30
Hospital administration	20
<i>Third term.</i>	
Hygiene and communicable diseases	40
Nursing history and development	10
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Note : The Course will not be held unless six or more students have been enrolled.

FEES.

Registration fee	£1
Fee for course set out above	£18
Fee for examination (and re-examination) Part I	£3
Part II	£3

Candidates who have obtained the Diploma may on a subsequent occasion enter for one or more of the optional subjects of Part II on payment of a fee of £2 2s. per subject.

NURSE TEACHER'S CERTIFICATE COURSE

Regulations

1. 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' 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 Examination 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

2. Before admission to the examination for the Certificate, candidates must produce evidence that they have satisfactorily attended courses at the University as follows :—

<i>First term.</i>	Hours.
Social economics (including duties of almoners)	20
Elementary Science	100
Anatomy and Histology	40
Physiology (including General Biology)	10
Psychology	30
Visits and excursions	20
Nutrition and dietetics	30
	<hr/>
	250
	<hr/>

Second term.

Anatomy and Histology	10
Physiology (including General Biology) ..	40
Bacteriology and Pathology	20
Hospital and Nursing School administration	20
Pharmacy and the administration of drugs	10
History of Education and Principles of	
Education	30
Visits and excursions	20

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Third term—(including practical teaching in Easter Vacation).

Methods of Teaching	20
Hygiene and communicable diseases ..	40
Child health	20
Nursing history and development ..	10
Teaching practice (with Sister Tutors)	
including Easter Vacation	100

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3. The examination shall consist of two parts. Part I must be passed before Part II is taken.

Part I—an examination held in March and June in the following subjects :—

- (1) Chemistry, Physics—written paper two hours, and *viva voce*.
- (2) Anatomy and Histology—written paper two hours, and *viva voce*.
- (3) Physiology (including Nutrition and Dietetics)—written paper two hours, and *viva voce*.
- (4) Social Economics—written paper two hours.

Part II—an examination held in June and September in the following subjects :—

- (1) Pathology, Bacteriology, Hygiene and communicable diseases—written paper two hours, and *viva voce*.

- (2) Principles of Education, Methods of Teaching and Educational Psychology—written paper two hours, and *viva voce*.
 - (3) Nursing School Administration (including History of Nursing)—written paper two hours, and *viva voce*.
 - (4) Practical examination in Teaching.
4. The Nurse Teacher's Certificate will be awarded to each candidate who has passed in both parts of the examination.
5. The fees for the course and examinations shall be :—

Registration fee	..	..	..	£ 1
Fee for course	..	..	..	£43
Fee for examination	..	..	..	£ 6
Fee for re-examination in one part				£ 3
				<hr/>
				£50

Note : The Course will not be held unless ten or more students have been enrolled.

SCHOLARSHIPS FELLOWSHIPS AND PRIZES

For full particulars of all University scholarships (including entrance scholarships) and for the general regulations under which scholarships are awarded, see Scholarship and Fellowship Prospectus.

SENIOR SCHOLARSHIPS

Medical Scholarship

This Scholarship was instituted by the Leeds School of Medicine in 1888. It now consists of a free ticket to the lectures and laboratory courses in the Faculty of Medicine of the University (approximate value £130).

This Scholarship is tenable in the Faculty of Medicine and is awarded, after a report from the examiners, on the results of the *First M.B., Ch.B.* examination of the University of Leeds.

Infirmary Scholarship

This Scholarship was founded in 1888 by the Faculty of the Leeds General Infirmary. It is of the value of £75 and consists of a free ticket to the clinical teaching of the Leeds Infirmary.

This Scholarship is now awarded, after a report from the examiners, on the result of the *Second* M.B., Ch.B. examination of the University of Leeds.

GRADUATE SCHOLARSHIPS

Lady Moynihan Scholarship

This 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.

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.

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.

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.

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.

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 1st May in each year.

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 will be made in 1951. 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 (not 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

(a) Holders of an appointment of Demonstrator in the School of Medicine, University of Leeds ;

or (b) Holders of an appointment of Registrar in one of the Teaching Hospitals associated with the University ;

or (c) 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 1st May.

The Freeman Fund

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.

The annual income of the bequest will be utilised 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 1st September.

Cancer Research Fellowships

These Fellowships, four in number, have been given through the Yorkshire Council of the British Empire Cancer Campaign by Sir William H. Aykroyd, Bart., Lord Brotherton of Wakefield, Capt. W. Riley Smith and Mr. Bertram Parkinson, respectively for the prosecution of cancer research within the University. They will be awarded to duly qualified candidates by the Senate on the recommendation of the Board of the Faculty of Medicine after consultation with the Cancer Research Advisory Committee of the University of Leeds. They will be tenable for 1, 2 or 3 years, and may be renewed thereafter for such periods as the Senate may determine. The annual value of each Fellowship shall not exceed £500.

The holders of the Fellowships shall work under the direction of the Professor of Experimental Pathology

(Director of Cancer Research) at such problems in the field of cancer research as he shall determine.

The Fellows will be required to devote the whole of their time to the prosecution of their researches and to present reports on their work to the Senate, unless the results are otherwise published in the form of communications to recognised scientific journals.

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 in 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 in 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.

Appointment to vacant Fellowships may be made at any time; renewal will be made in January or June. Vacancies will be announced as they occur and applications should be lodged with the Registrar.

Thorp Fellowship—Forensic Medicine and Public Health

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.

Candidates must be graduates of this University or qualified medical or women who have been students of the University for not less than three years.

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.

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.

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 1st May in each year.

Centenary and Hardwick Fellowship

This 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.

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.

Candidates must be medically qualified and must have been students of this University for not less than three years.

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.

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.

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 1st May in each year.

Littlewood Prize in Anatomy

The late Colonel Harry Littlewood, formerly Professor of Surgery in the University, bequeathed a legacy of £1,000 to be applied for providing a Prize in the Anatomy Department, every year or in alternate years.

This prize will be awarded on the result of the examination in Anatomy for the Second M.B., Ch.B. in March of each year, provided that the candidates have attended the full course of Anatomy in this University, and that students for other qualifications who have attended the full course be permitted to compete for the prize.

Birkett Prize

This prize of the value of about £3 is awarded annually, after a report from the examiners, on the results of the 2nd M.B., Ch.B. examination, to the candidate who is placed *proxime accessit* to the candidate or candidates awarded the Infirmary Scholarship, always provided that he obtains an honours mark in at least one subject of the examination.

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. This prize (of the value of approximately £30) will be awarded annually in March 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 Senior Administrative Officer by January 15th.

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. This prize is awarded annually on the results of an examination which is normally held in February. 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 Senior Administrative Officer, The Medical School, by January 15th.

Hardwick Prize in Clinical Medicine

1. This 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 1861-1864.

2. This prize, of the value of £10, is awarded annually on the results of an examination which is normally held in February. 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 Senior Administrative Officer, The Medical School, by January 15th.

Scattergood Prize in Obstetrics and Gynæcology

This prize, instituted in memory of the first Dean of the Medical Department, Yorkshire College, is awarded annually on a competition in Obstetrics and Gynæcology normally held in February. Candidates must submit six case notes (three Gynæcological and three Obstetric) written up by themselves during their obstetric and gynæcological clerkships. In addition, there will be a clinical and oral examination in Obstetrics and Gynæcology for selected candidates.

The value of the prize, which consists of books or instruments, is five pounds.

Edward Ward Memorial Prize in Surgical Anatomy

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:—

The Examiners for this 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.

The examinations will be held in February in the week preceding the Final examination, and will consist of: (a) a written paper, (b) *viva voce* examination on the living subject and (c) dissections.

Students are eligible irrespective of the qualifications for which they are working, and must be in their final year (normally fifth year) but due allowance will be made for those whose course has been extended by extra courses for the B.Sc., or for some other reason satisfactory to the Board.

West Riding Panel Practitioner's Prize

This prize of the value of £25 is awarded annually on the result (in Medicine only), of the Final M.B.,

Ch.B. examinations in March and September 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 M.B. or equivalent examination, excluding time occupied in working for a Final B.Sc.

Waddington Prize in Anatomy

This prize was instituted in 1944 by the relations of George and Guy Waddington who had bequeathed their bodies for dissection in the Department of Anatomy. The prize, given annually, 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 shewn most promise in his studies.

William Hey Medal

The late Lord Moynihan presented to the University the sum of £200 for investment, with a view of providing a gold medal for the most distinguished graduate with first-class Honours in the M.B., Ch.B. list of the Calendar year.

The award will be made by the Examination Committee in September on—

- (a) The results of the Final M.B. (Part III) examinations held in March and September of the same year. Previous examinations (Second M.B. and Final M.B., Parts I and II) will also be taken into consideration.
- (b) A consideration of the student's general standing, record and character. The successful student must have displayed qualities of such an order as to entitle to special distinction.

If two candidates show special merit and the funds of the trust allow, the examiners may recommend a double award.

Jamieson Medal in Practical Anatomy

1. In 1949 Dr. John G. Jamieson and Miss Barbara Jamieson presented to the University the sum of £100, to which was added the sum of approximately £750 subscribed by friends to provide a medal in memory of Professor J. Kay Jamieson, Professor of Anatomy in the University of Leeds from 1910-1936.

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 2nd M.B., Ch.B. examination.

3. In addition the student to whom the medal is awarded will receive an award of approximately £15.

S. Thompson Rowling Prize in Anaesthetics

1. This Prize was instituted in 1951 in memory of Dr. S. Thompson Rowling, a graduate of the University, and for 19 years a Clinical Lecturer in Anaesthetics.

2. The Prize, of the value of £10, will normally be awarded by the Senate in March of each year for an essay on some subject relating to anaesthesia. No award will be made unless a sufficiently high standard is attained.

3. The Prize is open only to students of the University in the sixth year of the medical course who may compete for it by submitting an essay (not exceeding 2,500 words in length) on a subject to be announced at the beginning of the session.

4. The Examiners will be the Reader in Anaesthetics, and the Professors of Pharmacology, Physiology and Surgery together with the Dean of the Faculty of Medicine.

5. The essays should be submitted to the Registrar not later than 31st January.

THE MEDICAL LIBRARY

The Medical Library is under the direction of the Medical Library Sub-Committee of the University Library Committee. This Sub-Committee is composed of representatives of the University Library Committee, of the Board of Medicine, and of the Medico-Chirurgical Society. In the ensuing regulations, matters referred to the Library Committee are brought in the first instance before the Medical Library Sub-Committee. This Sub-Committee also supervises the Library of the School of Dentistry, regulations for which are given in the prospectus of the School of Dentistry.

The Library contains 27,670 books and pamphlets. The valuable collection of the Leeds and West Riding Medico-Chirurgical Society, which had long been housed in the School of Medicine, was presented to the University in 1926 and the Society continues to make an annual contribution towards the maintenance of the Library. The early section is rich in medical classics, which come mainly from the Library of the old Infirmary, presented to the School of Medicine in 1865. A prominent feature of the Library is the extensive collection of periodicals.

Regulations.

1. HOURS OF OPENING.

The Library is open on

Monday, Wednesday and Friday from 9 a.m.—6.30 p.m.,

Tuesday and Thursday from 9 a.m.—5 p.m.,

Saturday from 9 a.m.—1 p.m.,

except during the long vacation when it is open on—

Monday to Friday from 9 a.m.—5 p.m.,

Saturday from 9 a.m.—12.30 p.m.

It is closed from December 24th to 30th 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.

(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 and 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 sixpence 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.

(e) Theses of the University shall be not consulted or borrowed without the consent of the head of the appropriate department.

(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 March. 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.

TIME TABLES

(Subject to any necessary alteration).

Lectures and Practical Classes.	HOURS.					
	M.	Tu.	W.	Th.	F.	S.
FIRST YEAR.						
1st TERM (10 weeks)						
Chemistry M ₁	10-1 2-5	..	..	..	..	..
Chemistry M ₂ and M ₃ ..	9-10	9-12 2-3	..	9-12 2-3	..	9-12
Physics .. ..	..	12-1	9-1	12-1	2-3 9-1	..
Zoology .. ..	..	..	..	..	3-5	..
Mathematics .. ..	..	3-5	..	..	..	..
2nd TERM. (first 4 weeks)						
Chemistry M ₁	10-1 2-5	..	..	..	..	..
Chemistry M ₂ and M ₃ ..	9-10	9-12 2-3	..	9-12 2-3	..	9-12
Physics .. ..	..	12-1	9-1	12-1	2-3 9-1	..
Zoology .. ..	..	..	..	..	3-5	..
Mathematics .. ..	..	3-4	..	..	..	..
2nd TERM (second 6 weeks)						
Chemistry M ₁	3-5	..	..	..	..	..
Chemistry M ₂ and M ₃ ..	9-10 2-3	9-12 2-3	..	9-12 2-3	..	9-12
Physics .. ..	..	..	9-12	12-1	2-4	..
Botany	10-1	..	12-1	3-5	9-12	..
Mathematics .. ..	..	3-4	..	..	..	..
3rd TERM (4 weeks)						
Chemistry M ₂ and M ₃ ..	9-10 2-3	9-12 2-3	..	9-12 2-3	..	9-12
Physics .. ..	..	12-1	9-12	12-1	2-4	..
Botany	10-1	..	12-1	3-5	9-12	..
Mathematics .. ..	..	3-4	..	..	..	..

First M.B., Ch.B. Examination June and September.

SECOND YEAR.						
1st TERM.						
Anatomy—Junior						
Neurology ..	9-10	..	9-10	..	9-10	..
Practical ..	10-12 & 2-5	2-5	..	..	10-12 or 2-5	9-11½
Histology ..	..	10-12	10-12	..	..	..
Radiological and Living Anatomy	4-5	4-5	..	..	..	..
Physiology—Lectures	..	9-10	12-1	9-10	..	..
Practicals						
(Exp.) A. ..	..	..	..	10-12	10-12	..
(Exp.) B. ..	..	..	..	2-4	2-4	..

The time-table of courses in Anatomy, Physiology and Biochemistry relates to students who entered the University in October, 1951. For students who will enter the University in October, 1952, and thereafter, a new time-table will apply which will be published in the prospectus for 1953-54.

TIME TABLES—continued

FOR STUDENTS DURING PRE-CLINICAL PERIOD

Lectures and Practical Classes.	HOURS.					
	M.	Tu.	W.	Th.	F.	S.
SECOND YEAR—contd.						
2nd TERM.						
Anatomy—Lectures ..	9-10	..	9-10	..	9-10	..
„ —Practical ..	10-12 or 2-4	..	10-12	10-12 or 2-4	2-5	..
„ —Histology ..	..	..	..	..	10-12	9-12
„ —Radiology ..	..	..	..	..	4-5	..
Physiology—Lectures ..	4-5	{ 9-10	12-1	9-10	..	..
„ Practicals—		{ 4-5				
Experimental:						
A.	10-12	10-12	..	10-12	..	..
B.	2-4	2-4	..	2-4	..	..
Bio-Chemistry:						
A. .. ..	..	2-4	..	..	..	..
B. .. ..	..	10-12	..	..	..	..
3rd TERM.						
Anatomy—Lectures ..	9-10	..	9-10	..	9-10	..
„ —Practical ..	2-4	..	10-12	9-12 or 2-5	2-4	10-12
„ —Neurology ..	4-5	..	..	..	4-5	..
Physiology—Lectures ..	11-12	..	12-1	..	11-12	9-10
„ Tutorials ..	10-11	..	..	12-1	10-11	..
„ Practicals—						
Bio-Chemistry:						
A. .. ..	..	9-12 or 2-5	..	9-12 or 2-5	..	..
B. .. ..	..	2-5	..	2-5	..	..
Physiology—Experimental:						
A. (1st ½ term)	..	2-5	..	..	..	..
B. (2nd „ )	..	..	..	..	..	..
THIRD YEAR						
1st TERM.						
Anatomy—Special Senses ..	..	9-10	12-1	9-10	..	..
„ —Practical ..	10-4 (2nd half term)	or 10-4	10-12	..	10-1 and 2-5	9-11½
„ —Practical						
Neurology ..	..	..	..	2-5	..	..
Living Anatomy ..	..	..	..	..	4-5	..
Physiology—Lectures ..	{ 9-10	..	9-10	..	9-10	..
„ Practicals—	{ 4-5					
Experimental:						
A.	10-4	..	..	..	..	..
B. .. ..	..	10-4	..	..	..	..
Bio-Chemistry:						
A. .. ..	..	10-4 (1st half term)	..	..	..	..
B.	10-4 (1st half term)	..	..	..	..	..

TIME TABLES—continued

FOR STUDENTS DURING PRE-CLINICAL PERIOD.

Lectures and Practical Classes.	HOURS.					
	M.	Tu.	W.	Th.	F.	S.
THIRD YEAR— <i>contd.</i>						
Physiology—(Applied) A+B	..	..	..	10-12	..	..
Tutorials	..	..	..	12-1	..	..
Psychology in relation to Medicine	..	..	..	..	..	..
2nd TERM.						
Anatomy—Lectures	..	9-10	..	9-10	..	10-11
—Practical	..	2-5	..	10-12 or 2-4	10-12 or 2-4	..
—Seminar	..	10-1	..	..	..	..
—Clinical Anatomy	..	4-5	..	..	..	..
—Embryology	..	..	..	..	..	..
—Practical	..	..	10-12	..	..	..
Physiology—Lectures	9-10	..	9-10	..	9-10	..
—Practicals—						
Experimental:						
A. ..	..	..	..	10-12	10-12	..
B. ..	..	..	..	2-4	2-4	..
Tutorials	..	..	..	12-1	..	..
Bio-chemistry:						
A+B	10-12	..	..	..	..	..
Pharmacology—Lectures	..	..	12-1	..	12-1	..
Practical	..	..	..	10-12 or 2-4	..	..

Second M.B., Ch.B., Examination, March (and June).

FOR STUDENTS REFERRED IN SECOND M.B., Ch.B. EXAMINATION.

3rd TERM.						
Anatomy—Lectures	9-10	..	..	..	4-5	..
Practical	10-12	..	..	2-4	2-4	..
Seminar	..	10-12	..	..	..	..
Physiology—Lectures	..	9-10	..	..	9-10	..
—Practicals—						
Experimental	..	..	..	10-1	..	..
Physiology	..	..	..	..	..	..
Biochemistry—Practicals	..	..	..	..	10-1	..
Pharmacology—Lectures	12-1	..	..	..	..	..
Practical	2-4	or 2-4	..	..	..	..
Psychology in relation to Medicine	..	..	..	9-10	..	..

FOR STUDENTS DURING CLINICAL PERIOD, IN ADDITION TO INFIRMARY WORK.

THIRD YEAR.

3rd TERM.						
Pharmacology—Lectures	12-1	..	..	..	..	..
Practical	2-4	or 2-4	..	..	..	..
Introductory Medicine—Course of 24 lectures during the introductory clinical period.						
Psychology in relation to Medicine—Course of six lectures.						
Anæsthetics—Course of six lectures and demonstrations.						
Introductory Surgery	..	9-10	..	..	9-10	..

TIME TABLES—continued

FOR STUDENTS DURING CLINICAL PERIOD, IN ADDITION TO INFIRMARY WORK

Lectures and Practical Classes.	HOURS.					
	M.	Tu.	W.	Th.	F.	S.
FOURTH YEAR.						
1st TERM.						
Pharmacology	12-1	..	..	..	..	..
General Pathology .. ..	..	12-1	12-1	..	12-1	..
Medicine—General	9-10	..	9-10	9-10	..	..
Surgery—General .. ..	..	9-10	..	..	9-10	..
2nd TERM.						
Pharmacology .. ..	..	12-1	..	..	..	..
General Pathology	12-1	..	..	12-1	..	..
Medicine—General	9-10	..	9-10	9-10	..	..
Surgery—General .. ..	..	9-10	..	..	9-10	..
3rd TERM.						
Pharmacology .. ..	..	..	..	12-1	..	..
Bacteriology and Immunology .. ..	..	12-1	12-1	2-5	12-1	..
Medicine—General	9-10	..	9-10	9-10	..	..
Gynaecology .. ..	..	9-10	..	..	9-10	..
FIFTH YEAR.						
1st TERM.						
Pharmacology .. ..	..	12-1	..	..	..	..
Special Pathology	12-1	..	..	12-1	..	..
Medicine—General	9-10	..	9-10	..	..	..
Pædiatrics and Child Health	..	..	..	9-10	..	..
2nd TERM.						
Pharmacology	12-1	..	..	..	..	..
Special Pathology .. ..	..	12-1	12-1	..	12-1	..
Medicine—General	9-10	..	..	..	..	..
Pædiatrics and Child Health	..	..	..	9-10	..	..
Psychiatry .. ..	..	..	9-10	..	..	..
Surgery—General .. ..	..	9-10	..	..	9-10	..
Final M.B., Ch.B., Part I Examination, March (and June).						
3rd TERM.						
Clinical Pathology	12-1	..	..	12-1	..	..
Medicine—General .. ..	..	..	..	9-10	..	..
Industrial Medicine	9-10	..	..	..	..	..
Psychiatry .. ..	..	..	9-10	..	..	..
Mental Diseases .. ..	..	..	2-5	..	..	..
Orthopædics .. ..	..	9-10	..	..	9-10	..
Public Health .. ..	..	12-1	12-1	..	..	9-10
Medical Ethics .. ..	..	..	..	..	12-1	..
Applied Anatomy† .. ..	..	..	..	12-1	..	..
Medical Radiology	9-0	..	..	9-0	..	..

†For candidates taking Final M.B., Ch.B., Part III in September.

TIME TABLES—continued

FOR STUDENTS DURING CLINICAL PERIOD, IN ADDITION TO INFIRMARY WORK

Lectures and Practical Classes.		HOURS.					
		M.	Tu.	W.	Th.	F.	S.
SIXTH YEAR.							
1st TERM.							
Therapeutics .. ..	..	9-10	..	9-10	9-10	..	..
Ophthalmology and	..	..	..	..	..	..	..
Otology .. ..	..	..	9-10	..	..	9-10	..
Thoracic and Neuro-	..	..	..	..	..	..	..
Surgery .. ..	..	..	..	..	..	..	9-10
Forensic Medicine ..	..	12-1	12-1	12-1	12-1	..	..
Final M.B., Ch.B., Part II Examination, December (and June).							
Lectures in Obstetrics are given at the Maternity Hospital during the period of residence at Croft Hall.							
2nd TERM.							
Applied Anatomy .. ..	..	..	..	12-1	..	..	..
Radiotherapy .. ..	..	..	9-10	..	..	9-10	..
Tutorials—							
Medical Pathology .. ..	..	..	..	9-10	..	..	..
Surgical Pathology .. ..	..	..	12-1	..	..	..	..
Medicine	12-1	..	..	..	..	..	9-10
Surgery .. ..	..	12-1	..	..	12-1	..	..
Orthopaedic Surgery ..	..	..	4-5	..	..	..	..
Obstetrics and Gynaecology	4-5	..	..	..	4-5	..	..
Final M.B., Ch.B., Part III Examination, March (and September).							

FEES

General Regulations

The University reserves the right to revise the fees specified below at any time, whether in the case of new students or those who have already begun their courses.

The composition fees for lecture and laboratory courses may be paid either sessionally, in advance, or (with certain exceptions) terminally by instalments. Fees paid by instalments are at a slightly higher rate than when paid in advance. The terminal instalment scales of fees are not applicable to students ordinarily resident outside the British Isles; such students must pay fees sessionally in advance.

Any student attending a degree course, or any other course which is regarded as a full course, will be required to pay the composition fee appropriate to the Faculty in which he is a student.

A student ceasing, for any reason whatsoever, to attend at the University during the session has no claim to a return of fees.

A student who elects to pay composition 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 fee.

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 receipt entitling the student to attend such courses. This receipt must be presented by the student, before commencing attendance, to the Professors or Lecturers whose classes or lectures he is authorised to attend.

Students are required to pay a Registration Fee when their application for admission to the University is accepted. For overseas students, the Registration Fee is £5; for students taking the Diploma in Nursing or Nurse Teacher's Certificate, £1; and for other students, £2.

Fees may be paid either in the Dean's Office, School of Medicine, or in the Fees Office, the Parkinson Building.

Cheques should be made payable to "The University of Leeds."

I. Composition Fees (including Union Fee)

(a) Payable by students commencing the course on or after 1st October, 1952.

				Fee when paid sessionally in advance.	Fee when paid in terminal instalments on the 1st day of each term		
					1st Term	2nd Term	3rd Term
MEDICAL COURSE :				£	£	£	£
Payable at beginning of 1st Session				61	29	21	13
"	"	"	2nd "	61	29	21	13
"	"	"	3rd "	61	29	21	13
"	"	"	4th "	61	29	21	13
"	"	"	5th "	51	26	17	10
"	"	"	6th "	15	—	—	—
				£310			

See also :—Section III Apparatus and Section IV—Locker Deposits.

NOTE :

- (a) If paid in one sum at the beginning of the course, the above fee of £310 will be reduced to £300.
- (b) The increases in the sessional and terminal Composition Fees for the Medical Course are consequent upon :—
- an increase of £1 per session in the Union Fee ; and
 - the inclusion in the Composition Fee of the fee for residence at Croft Hall hitherto paid as a separate fee.
- (c) For students who read for external qualifications and do not proceed to the Leeds M.B., Ch.B. (Final) examinations, the Composition fee of £310 will be increased to £320. The additional fee of £10 will be paid at the beginning of the 6th session, i.e., the normal instalment of £15 as shown above will be increased to £25.

CLINICAL COURSE :

For students excused the First and Second M.B., Ch.B. course and who require the Clinical Course, the following fees are payable :

				Fees when paid sessionally in advance.	Fee when paid in terminal instalments on the 1st day of each term		
				£	1st Term	2nd Term	3rd Term
COURSE COVERING 3 YEARS :							
Payable at beginning of 1st Session				68	32	23	15
"	"	"	2nd "	68	32	23	15
"	"	"	3rd "	68	32	23	15

CROFT HALL (MATERNITY CLERKS) FEE

The above Composition fees include the fee for residence at Croft Hall, payable by all students taking the Medical or Clinical Courses (see Section II below). For the Medical Course £10 per session for the first four sessions is included and for the Clinical Course £13 each session, totalling £40 and £39 respectively. An adjustment will be necessary when it is known whether a student occupies a single or a double room.

(b) Payable by students on the course prior to 1st October, 1952.

(See Section II—Croft Hall fee : Section III—Apparatus, etc., and Section IV—Locker Deposits.)

MEDICAL COURSE :	Payable at beginning of 1st Session	2nd	3rd	4th	5th	6th	Fee when paid sessionally in advance.	Fee when paid in terminal instalments on the 1st day of each term		
								1st Term	2nd Term	3rd Term
	Payable at beginning of 1st Session						£	£	£	£
"	"	"	2nd	"			51	26	17	10
"	"	"	3rd	"			51	26	17	10
"	"	"	4th	"			51	26	17	10
"	"	"	5th	"			51	26	17	10
"	"	"	6th	"			15	—	—	—
							£270			

NOTE :

- (a) If paid in one sum at the beginning of the Course, the above fee of £270 will be reduced to £260.
- (b) For students who read for external qualifications and do not proceed to the Leeds M.B., Ch.B. (Final) examination, the Composition fee of £270 will be increased to £280. The additional fee of £10 will be paid at the beginning of the 6th session, i.e., the normal instalment of £15 as shown above will be increased to £25.

CLINICAL COURSE :

For students excused the First and Second M.B., Ch.B. course and who only require the Clinical Course, the following fees are payable :

COURSE COVERING 3 YEARS :	Payable at beginning of 1st Session	2nd	3rd	Fee when paid sessionally in advance.	Fee when paid in terminal instalments on the 1st day of each term		
					1st Term	2nd Term	3rd Term
	Payable at beginning of 1st Session			£	£	£	£
"	"	"	2nd	55	28	18	11
"	"	"	3rd	55	28	18	11

II. Croft Hall Fee

All students, whether taking the course for the Leeds M.B., Ch.B., or an external degree or diploma are required to go into residence at Croft Hall for a period of approximately 12 weeks, normally about the end of the second Clinical year of the Medical Course. Students occupying a single room will pay a fee of £42 5s. and students sharing a double room, a fee of £39.

For students who commenced the course prior to 1st October, 1952, the fee is payable in one sum, not later than the first day of residence in the Hall.

III. Apparatus, &c.

At the beginning of the first year students working in the Chemistry Laboratories will pay (a) a rental of 15/- for use of a set of apparatus and (b) a deposit of 30/- to cover the cost of replacing broken apparatus, etc. The rental and deposit will be paid at the same time as the composition fee. The deposit will be refunded at the end of the session after deduction of cost of breakages. When a student's breakages exceed 30/- a further deposit will be payable.

At the beginning of the second year students will pay a deposit of £1 5s. This deposit, less (a) 10s. rent of locker, etc. ; and (b)

Pharmacology—	£	s.	d.
Lectures	3	0	0
Practicals	5	0	0
Pharmacy	5	0	0
Therapeutics	3	0	0
General Pathology and Bacteriology	7	0	0
Special Pathology	7	0	0
Clinical Pathology	3	0	0
Medicine (including a second course and Clinical Medicine)	9	0	0
Surgery (including Clinical and Practical Surgery) ..	15	0	0
Obstetrics .. £7 0 0	} If paid at one time	9	0 0
Gynæcology £4 0 0			
Forensic Medicine	8	0	0
Ophthalmology and Otology	5	0	0
Mental Diseases	5	0	0
Public Health	5	0	0
Infectious Diseases	3	10	0
Vaccination	2	10	0
Intern Maternity	3	10	0
Radiology and Radio-Therapy	3	10	0
Orthopædics	5	0	0
Diseases of Children	3	10	0
VII. (a) Post-Graduate and Miscellaneous Courses			
Clinical Pathology	4	4	0
Medical Pathology	3	3	0
Surgical Pathology	3	3	6
Operative Surgery	4	14	0
Tropical Medicine	5	0	0
For the Diploma in Psychological Medicine			
Course for Part I.	42	0	0
Course for Part II.	63	0	0
For the Diploma in Public Health—			
Preliminary course (one term)	20	0	0
Final course (two terms)	35	0	0
The complete course (three terms)	55	0	0
Agricultural and Technical Bacteriology (per term) ..	7	0	0
Infirmary Diploma in Dietetics (University course) ..	†25	0	0
Course of Lectures in Dietetics for students from the School of Dietetics	5	0	0

(b) Hospital Practice and Clinical Lecture Fees

(applicable to Post-graduate and External Students).

The fees include clinical lectures in the subjects taken out, and students shall be eligible for hospital appointments.

	1 month.	3 months.	6 months.	12 months.
	£ s. d.	£ s. d.	£ s. d.	£ s. d.
All subjects ..	8 0 0	16 0 0	24 0 0	32 0 0
Medicine ..	4 10 0	9 0 0	13 10 0	18 0 0

†Including Union fee

	1 month.	3 months.	6 months.	12 months.
	£ s. d.	£ s. d.	£ s. d.	£ s. d.
Surgery ..	4 10 0	9 0 0	13 10 0	18 0 0
Ophthalmology ..	3 0 0	6 0 0	9 0 0	12 0 0
Ear, Nose and Throat ..	3 0 0	6 0 0	9 0 0	12 0 0
Dermatology ..	2 10 0	5 0 0	7 10 0	10 0 0
Gynæcology ..	2 10 0	5 0 0	7 10 0	10 0 0
Diseases of Infants ..	2 10 0	5 0 0	7 10 0	10 0 0
Casualty ..	3 0 0	6 0 0	9 0 0	12 0 0
Radio-therapeutic Dept. ..	3 0 0	6 0 0	9 0 0	12 0 0
Obstetric Practice (20 cases),	£3 0 0			

Students of the Leeds Medical School who have taken the full clinical course and have registered as medical practitioners become *ipso facto* Perpetual Students of the Infirmary without further charge. This privilege will admit to the ordinary clinical instruction of the Infirmary, but will not cover attendance at any special post-graduate course for which fees may be charged.

Other qualified practitioners who wish to take further hospital practice can be admitted as "perpetual students" of the Infirmary on payment of a fee of £15 15s.

Practitioners and External Students wishing to attend the Infirmary practice during short periods, and not requiring Signatures or Certificate of any kind, or to hold any hospital appointment, may do so on payment of the following Fees

	£	s.	d.
For 6 months	9	0	0
For 4 "	6	0	0
For 3 "	4	10	0
For 2 " and shorter periods..	3	0	0

VIII. Fees for Examinations

	For first examination.	For subsequent examination.
	£ s. d.	£ s. d.
Examination for Matriculation ..	2 0 0	2 0 0*
Registration of an External Matriculation Certificate ..	2 0 0	2 2 6
First M.B.	6 0 0	6 0 0
Second M.B.	6 0 0	6 0 0
Final M.B.	6 0 0	6 0 0
Degree of Ch.M.	10 0 0	10 0 0
Degree of M.D.	10 0 0	10 0 0

*A student who fails in the July examination in any year will be admitted to the September examination of the same year only on the payment of this fee. Fees in connection with Matriculation are payable to the Secretary, Joint Matriculation Board, 315, Oxford Road, Manchester 13.

†In cases of re-examination in *one* subject only, half the fee for first examination will be charged.

Diploma in Public Health—	£	s.	d.	£	s.	d.
Preliminary	5	0	0	5	0	0
Final	10	0	0	10	0	0
Diploma in Psychological Medicine						
Part I.	5	5	0	5	5	0
Part II.	10	10	0	10	10	0
Diploma in Nursing	6	0	0	3	0	0
Nurse Teachers' Certificate	6	0	0	3	0	0
				(for each part)		
				(for each part)		

A student exempt from the 1st M.B. and/or 2nd M.B. examination, having taken the equivalent of such examination elsewhere, must pay the normal examination fee in respect of these examinations before proceeding with his medical course.

The latest dates for payment of examination fees are :—

In March on January 30th, 1953.

In June on April 30th, 1953.

In September on July 15th, 1953.

In December on October 30th, 1952.

IX. Graduation and Convocation Fee

Every person first admitted to a degree (other than an Honorary Degree) of this University on or after June 1st, 1926, shall be required to pay, prior to graduation, a fee of £7 which shall entitle the graduate to be registered as a member of Convocation. On conferment of a further degree, a Gradantion Fee of £6 will be payable.

Approximate Total Cost of Medical Course for the M.B., Ch.B. degrees

	£	s.	d.
Examination for Matriculation and Registration Fee	4	0	0
Composition Fee (paid by instalments)	270	0	0
Croft Hall	42	5	0
Examination Fees	18	0	0
Books, Instruments, etc.	122	0	0
Graduation and Convocation Fee	7	0	0
	<hr/>		
	£425	10	0

HOSPITAL TIME TABLE FOR STUDENTS

	M.	T.	W.	Th.	F.	S.
LEEDS GENERAL INFIRMARY.						
WARDS VISITED BY—						
PHYSICIANS—						
Dr. Towers .. .. .	..	..	10.15 Open teach'g	..	..	10.15
Dr. Hartfall .. .. .	..	10.15	..	..	10.15	..
Dr. Tunbridge .. .. .	..	10. 0	..	..	..	10. 0 Open teach'g
Dr. Telling	3. 0 Open teach'g	..	..	..	..	..
Dr. Tattersall .. .. .	..	..	..	10. 0 Open teach'g	..	..
DERMATOLOGICAL PHYSICIAN—						
Dr. Ingram	2. 0	..	..	..	..	..
PHYSICIAN WITH CHARGE OF						
CHILDREN'S DEPT. :—						
Dr. Craig .. .. .	..	2. 0	..	2. 0	..	..
Dr. Allibone	2. 0	..	..	..	..	..
SURGEONS—						
Mr. Moir	10. 0	..	..	..	..	..
Mr. Symons .. .. .	..	10. 0	..	..	..	..
Mr. Chamberlain .. .. .	..	..	..	10. 0	..	..
Mr. Armitage .. .. .	..	..	..	..	10. 0	..
ORTHOPÆDIC SURGEONS—						
Mr. Broomhead	2. 0	..	2. 0*	2. 0*	10.15	..
Mr. Pain .. .. .	..	..	..	..	10.15	..
Mr. Clark .. .. .	..	..	..	..	10.15	..
OPHTHALMIC SURGEONS—						
Mr. Foster .. .. .	..	10.15	..	..	..	..
Mr. Black .. .. .	..	10. 0	..	10. 0	..	..
EAR, NOSE AND THROAT SURGEONS—						
Mr. Seed .. .. .	..	..	10.30	..	..	..
Mr. Boyle .. .. .	..	10. 0	..	..	..	..
Mr. Lord .. .. .	..	..	..	10. 0	..	..
THORACIC SURGEON—						
Mr. Allison .. .. .	..	..	..	9. 0	..	9. 0
RADIOTHERAPISTS—						
Mr. La Touche .. .. .	..	10. 0	..	..	..	..
Dr. Nuttall .. .. .	..	..	..	..	10. 0	..
OUT-PATIENTS—						
MEDICAL CASES—						
Dr. Towers .. .. .	..	1.30	..	9.30*	..	..
Dr. Hartfall .. .. .	..	..	1.30	..	..	..
Dr. Tunbridge .. .. .	..	..	1.30	10. 0	..	..
Dr. Macpherson .. .. .	..	2. 0 Open teach'g	..	2. 0	..	..
Dr. Telling	1.30	..	..	..	1.30	..
Dr. Tattersall .. .. .	..	9.30	..	..	1.30	..
NEUROLOGICAL CASES—						
Dr. Garland	2. 0	..	..	2. 0	..	..
CHILDREN'S DEPT.—						
Dr. Allibone .. .. .	..	..	9. 0	..	..	..
Dr. Craig	10. 0	..	..	..	..	..
SKIN CASES—						
Dr. Hellier	10. 0	..	..	..	..	..
Dr. Ingram .. .. .	..	..	9.30	1.30	..	..

*Follow up clinic.

HOSPITAL TIME TABLE FOR STUDENTS—continued

	M.	T.	W.	Th.	F.	S.
LEEDS GENERAL INFIRMARY—continued.						
PSYCHIATRY—						
Dr. MacCalman	10.15	..	..	10.15	..	..
SURGICAL CASES—						
Mr. Armitage .. ..	..	..	..	10.30	9.30	..
Mr. Chamberlain .. ..	..	2.0	9.30*	..	..	..
Mr. Latchmore .. ..	..	..	9.0	..	..	..
Mr. Oldfield	9.0	..	..	..	..	..
Mr. Pyrah .. ..	..	..	..	10.0	..	..
Mr. Shucksmith .. ..	..	..	1.30	..	..	..
Mr. Symons .. ..	..	..	..	..	1.30	..
ORTHOPÆDIC CASES—						
Mr. Broomhead .. ..	..	10.0	..	{ 10.0	..	..
				2.0		
Mr. Clark .. ..	..	10.30	..	..	..	..
Mr. Pain .. ..	..	10.30	..	10.30	..	..
OPHTHALMIC CASES—						
Mr. Black	2.0	..	..	..	..	..
Mr. Foster .. ..	..	..	..	2.15	..	..
EAR, NOSE AND THROAT CASES—						
Mr. Boyle .. ..	..	2.30	..	..	..	..
Mr. Seed	3.0	..	..	..	3.0	..
Mr. Lord .. ..	..	..	10.0	..	..	10.0
THORACIC CASES—						
Mr. Allison .. ..	..	..	9.30	..	9.30	..
RADIOTHERAPY CLINICS—						
Mr. La Touche .. ..	..	11.0	..	..	..	..
Dr. J. M. Lees .. ..	..	..	..	..	2.30	..
Dr. Nuttall .. ..	..	..	..	4.0	..	..
VENEREAL CASES—						
Dr. Horne .. ..	..	10.15	..	10.15	..	..
Operations, In-Patients ..	{ 10.0	10.0	10.0	10.0	10.0	10.0
	2.0	2.0	..	2.0	2.0	..
Operations, Out-Patients ..	..	..	..	9.30	9.30	..
Operations, Ophthalmic ..	10.0	..	..	..	10.0	..
Operations, Aural .. ..	..	9.0	9.0	..	9.0	9.0
Operations, Aural Out-Patients ..	9.0	..	..	..	..	..
Operations, Orthopædic ..	9.0	..	9.0	..	2.0	9.0
*Post-Mortem Examinations ..	10.0	10.0	10.0	10.0	10.0	10.0
ST. JAMES'S HOSPITAL.						
WARD VISITS—						
Dr. Tunbridge	2.0	..	10.0	..	10.0	..
TEACHING—						
Dr. Tunbridge .. ..	..	2.0	..	..	..	..
HOSPITAL FOR WOMEN.						
WARDS VISITED BY						
GYNÆCOLOGICAL SURGEONS—						
Mr. Claye	2.0	..	..	10.30	..	..
Mr. Jeaffreson .. ..	..	2.0	..	..	2.0	..
Mr. Currie .. ..	..	..	2.0	..	..	..
Mr. Agar	2.0	..	..	..	..	..
OUT-PATIENTS—						
Mr. Claye .. ..	..	..	..	1.30	..	..
Mr. Jeaffreson	1.30	..	..	..	..	..
Mr. Currie .. ..	..	..	1.30	..	..	..
Mr. Agar .. ..	..	1.30	..	..	..	..
GYNÆCOLOGICAL OPERATIONS ..	9.0	9.0	9.0	9.0	9.0	9.0

HOSPITAL TIME TABLE FOR STUDENTS—continued

	M.	T.	W.	Th.	F.	S.
LEEDS MATERNITY HOSPITAL.						
WARD VISITS—						
Mr. Claye	2.15	..	..	..	..
Mr. Jeaffreson	2.15	..	..
Mr. Currie	2.15	..	..
Mr. Agar	2.15	..	..
OUT-PATIENTS—						
Mr. Claye	10. 0	..	..	..	..	..
Mr. Jeaffreson	10. 0	..	..	..	..
Mr. Currie	10.30	..
Mr. Agar	10. 0	..	..
CITY FEVER HOSPITAL.						
WARD VISITS—						
Dr. Benn	2. 0	..	..	2. 0	..

SCHOOL OF DENTISTRY

COURSES OF STUDY

Students who have satisfied the matriculation requirements are advised to take the Degree (B.Ch.D.) course. Opportunity will be given, if so desired, for degree candidates to take also the L.D.S. qualification in their normal period of professional study.

It is desirable for candidates in completing their matriculation to have had preparation in Mathematics, Physics and Chemistry in order to facilitate their first year's science studies at the University.

Every student should make himself familiar with the examination regulations and should take care that he attends all the necessary courses of lectures, demonstrations and hospital practice in order to obtain the requisite certificates of attendance for entry to the examinations.

Students taking the examinations of other Licensing bodies must make themselves acquainted with the subjects, period of attendance, etc. necessary for such examinations, as they do not, in all cases, coincide with the University curricula.

Those intending to take the Diploma in Dental Surgery of the Royal College of Surgeons, England, should direct enquiries to the Secretary, Royal College of Surgeons, Examination Hall, Queen Square, London.

Registration.

Students will be registered by the University Authorities within fifteen days of their commencing professional study (*i.e.* after passing or obtaining exemption from the Pre-Registration Examination in Physics and Chemistry), and their names will be forwarded to the General Medical Council for inclusion in the official Register. In the case of students who have

served an apprenticeship of at least two years in dental mechanics before admission to the University, registration may be antedated for a period not exceeding six months.

Age of Admission.

Before Registration a candidate (*i.e.* having passed or obtained exemption from the Pre-Registration Examination) is required to furnish evidence that he has attained, or will within three months attain, the age of eighteen years.

Applications for Admission.

Application for admission as a dental student must be made on the official form, which may be obtained from the Registrar, The University, Leeds, 2, and which should be returned completed before April 30th of the year in which entry is sought.

Admission to the dental course will be subject to such regulations of the Ministry of Labour and National Service as may be in force at the time. Such regulations may involve application for deferment of national service being made to the Joint Recruiting Board by intending men students whilst still at school. Communications relating to these regulations should be addressed direct to the Secretary of the Joint Recruiting Board at the Employment Exchange, Leeds.

**DEGREES, COURSES OF STUDY AND EXAMINATIONS IN
DENTAL SURGERY**

ORDINANCE VII

1. The Degrees in Dental Surgery shall be :

Ordinance

Bachelor of Dental Surgery (B.Ch.D.).

Master of Dental Surgery (M.Ch.D.).

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 subsequently to the date of passing the First examination, and to have completed such period of pupilage or hospital attendance, or both, as may be prescribed by the Regulations of the University.

3. In order to qualify 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, and must satisfy the examiners in the several subjects of the following examinations :—

The First examination.

The Second examination.

The Third examination.

The Final examination.

4. Each examination shall include practical work in the subjects offered.

5. All candidates shall be required, before presenting themselves for examination, to furnish certificates testifying that they have attended the prescribed courses

* Full information is contained in the Joint Matriculation Board's pamphlet on University Entrance Requirements, 1951-55, obtainable from Messrs. John Sherratt and Son (Publishers), Park Road, Timperley, Cheshire. (Price 1/6 post free).

of instruction in accordance with the Regulations of the University in each of the subjects which they offer and that they have fulfilled the other requirements of the Ordinance and Regulations in respect of such examination.

Regulation Unless specially exempted by the Senate, candidates for the degree of B.Ch.D. are required to present evidence of possessing a knowledge of mathematics equivalent to that of Ordinary level in a General Certificate of Education examination.*

First Examination

Ordinance 6. The First Examination shall consist of two Parts :—

Part I. (Pre-registration) :—

Physics.

Chemistry.

Part II. Zoology and Botany.

7. Candidates shall be allowed to pass in each Part separately.

8. Candidates shall be required, before presenting themselves for Part I of this examination, to have passed the examination for Matriculation.

9. Candidates shall be required, before presenting themselves for Part II of this examination, to have passed the examination for Matriculation and to have attended courses of instruction in accordance with the Regulations of the University.

Regulations The courses of instruction at the University for the First Examination Parts I and II shall be as follows :—

Lectures and laboratory work for one session in :—

Physics.

Chemistry.

Zoology and Botany.

Candidates for the First Examination are normally required, except as provided below, to have attended these courses in the University or at an affiliated college of the University.

* Candidates who have passed in Mathematics at Pass standard only in a School Certificate examination will be considered for entry to the School of Dentistry up to and including session 1953-54.

The examination will normally be held in June. Candidates who have failed at the examination in June may be granted permission by the Senate to present themselves in September for the whole or such part of a supplementary examination as the Examination Committee may determine.

Exemption from the subjects of the First Examination

Candidates who have passed at Advanced level in Physics or Chemistry in a General Certificate of Education examination (or who possess approved equivalent qualifications)* will be exempted from the corresponding course and subject in the First Examination.

Candidates who have obtained a sufficiently high mark in Botany at Advanced level in a General Certificate of Education examination (or who possess approved equivalent qualifications)* may apply for exemption from the course and examination in Botany of the First Examination.

Second Examination

10. The subjects of the Second Examination shall be : Ordinance

Part I The Properties of Dental Materials.

Part II Anatomy.

Physiology.

Part III Dental Anatomy and Physiology.

Dental Pharmacy and Pharmacology.

Part IV Dental Mechanics.

11. Candidates may pass in each Part separately.

12. Candidates shall be required, before presenting themselves for the Second examination, to have attended courses of instruction in accordance with the Regulations of the University.

Candidates for the Second examination are required to have attended complete courses of instruction approved by the University in : Regulations

The Properties of Dental Materials : lectures and laboratory work : two terms.

* Passes at principal standard in a Higher School Certificate examination or in the 1st M.B., B.Sc., or Intermediate B.Sc., examinations of the University of London are approved for these purposes, provided in the case of Botany, a sufficiently high mark is obtained.

Anatomy: lectures and practical work: three terms.

Physiology: lectures and practical work: three terms.

Dental Anatomy and Physiology: lectures: two terms.

Dental Histology: practical work: one term.

Dental Pharmacy: lectures and demonstrations: one term.

Pharmacology: lectures and demonstrations: one term.

Dental Mechanics: lectures: two terms.

Candidates for Part IV of the Second Examination shall be required to have spent two years in the Department of Dental Mechanics of a recognised Dental or General Hospital, or one year in such Department in the event of their having completed not less than two years in pupilage to a registered dentist.

The Second examination shall be held twice in each calendar year.

Candidates who fail to satisfy the Examiners in any subject of the examination must, before being re-admitted to examination, produce evidence of having pursued such further study as may have been required by the Examiners.

Third Examination

Ordinance 13. The subjects of the Third Examination shall be :—
Part I General Pathology and Bacteriology.
Part II Medicine.
Surgery.

14. Candidates may pass in each Part separately.

15. Candidates shall be required, before presenting themselves for the Third Examination, to have attended courses of instruction in accordance with the Regulations of the University.

Candidates for the Third Examination are required to have attended complete courses of instruction approved by the University in:—

General Pathology and Bacteriology : three terms.

Medicine : lectures : one term.

Medicine : tutorial and clinical : one term.

Surgery : lectures : one term.

Surgery : tutorial and clinical : one term.

Candidates for the Third Examination, Part II, shall also be required to present certificates of medical and surgical practice recognised by the University as follows:—Junior Post mortem Clerkship, three months ; Surgical Out-patient Dressership, three months : Aural Out-patient Dressership, three months. Regulations

The Third Examination shall be held twice in each calendar year.

Candidates who fail to satisfy the Examiners in any subject of the examination must, before being re-admitted to examination, produce evidence of having pursued such further study as may have been required by the Examiners.

Final Examination

16. The subjects of the Final Examination shall be:— Ordinance
Dental Surgery.

Clinical Dental Surgery (including Operative Dental Surgery, Oral Surgery, Orthodontia, Radiology and Prosthetics).

Special Pathology and Bacteriology.

17. Candidates shall be required, before presenting themselves for the Final Examination, to have passed the First, Second and Third Examinations and to have attended courses of instruction in accordance with the Regulations of the University.

18. The names of candidates who have satisfied the Examiners in all the subjects of the Final examination, and are recommended for degrees, shall be published as follows:—

1. Those awarded First Class Honours.
2. Those awarded Second Class Honours.
3. Those who have satisfied the Examiners.

The names shall be in alphabetical order in each case.

Regulations Candidates for the Final examination shall be required to have attended courses of study, approved by the University, as follows:

Special Pathology and Bacteriology: one term.

Dental Surgery: lectures: two terms.

Operative Dental Surgery: lectures: one term.

Orthodontia: lectures: one term.

Radiology: lectures: one term.

Anæsthetics: one term.

Dental Hospital Practice: two and a half years.

The Final examination shall be held twice in each calendar year.

Candidates who fail to satisfy the Examiners in any subject of the examination must, before being re-admitted to examination, produce evidence of having pursued such further study as may have been required by the Examiners.

Degree of Master of Dental Surgery

Ordinance 1. 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.

2. 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.

3. 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.

4. Candidates having satisfied the requirements under either Article 2 or Article 3 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.

I. AWARD OF THE DEGREE BY EXAMINATION ALONE.

1. 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.

Preventive Dentistry.

2. 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 *vivav oce* examination.

3. 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.

4. Candidates will not be allowed to proceed with the sections of the examination specified in regulations 2(b), (c) and (d) and 3(b) and (c) unless they have satisfied the examiners in the written papers specified in regulations 2(a) and 3(a) above.

II. AWARD OF THE DEGREE UPON THESIS OR PUBLISHED WORK.

1. 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.

2. 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.

3. 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.

4. 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.

5. 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.

6. 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.

7. A copy of the thesis submitted in support of the application will be retained in the University Library.

III. 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.

Entry must be made on the appropriate form and submitted to the Registrar of the University not later than 1st January or 1st July in any year.

DIPLOMA IN DENTAL SURGERY (L.D.S.)

REGULATIONS

Candidates for the Diploma in Dental Surgery (L.D.S.) of the University of Leeds are required to present certificates showing that they have attained the age of twenty-one years and that they have attended courses of instruction, approved by the University, extending over not less than four years, two at least of which must have been spent in the University after passing the First examination.

Candidates are required to satisfy the Examiners in the several subjects of the following examinations :—

A Preliminary examination in general education.

First examination.

Second examination.

Third examination.

Final examination.

Preliminary Examination

The normal standard of the Preliminary Examination to be passed before admission to the course of study for the Diploma in Dental Surgery is that of a University Matriculation or Entrance Examination. In the case of candidates who have not completely satisfied the full Matriculation requirements, evidence must be produced that they have passed at "*credit*" standard, at not more than two sittings, in four subjects as under-mentioned taken from Groups I, II and III of the School Certificate or other recognised examination :—

1. English.
2. A language other than English.
3. A science subject.
4. A fourth subject selected from Groups I, II or III, or at Ordinary level in a General Certificate of Education

examination in four subjects, one subject being English Language, one a language other than English and one a Science subject.

Except in cases specially approved by the Senate, all candidates for the Diploma in Dental Surgery are required to present evidence of possessing a knowledge of Mathematics at least equivalent to that of the "*Pass*" standard at a School Certificate Examination.

IMPORTANT NOTICE

Commencing session 1953-54, in order to be eligible for consideration for admission to the course of study 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, and unless specially exempted by the Senate, must present evidence of having passed in Mathematics at the ordinary level in a General Certificate of Education Examination.

First Examination

The First Examination shall consist of two Parts:—

Part I (Pre-registration) :—

Physics.

Chemistry.

Part II Zoology and Botany.

Candidates may pass in each Part separately.

The names of candidates who have satisfied the Examiners in either Part of the First examination shall be published in alphabetical order.

Candidates shall be required, before presenting themselves for Part I of this examination, to have passed the Preliminary examination in general education.

* Full information is contained in the Joint Matriculation Board's pamphlet on *University Entrance Requirements, 1951-55*, obtainable from Messrs. John Sherratt and Son (Publishers), Park Road, Timperley, Cheshire (Price 1/6 post free).

The courses of instruction at the University for the First Examination Parts I and II shall be as follows:—

Lectures and laboratory work for one session in:—
Physics.

Chemistry.

Zoology and Botany.

Candidates for the First Examination are normally required, except as provided below, to have attended these courses in the University or at an affiliated college of the University.

The examination will normally be held in June. Candidates who have failed at the examination in June may be granted permission by the Senate to present themselves in September for the whole or such part of a supplementary examination as the Examination Committee may determine.

Exemption from the subjects of the First Examination.

Candidates who have passed at Advanced level in Physics or Chemistry in a General Certificate of Education Examination* (or who possess approved equivalent qualifications) will be exempted from the corresponding course and subject in the First Examination.

Candidates who have passed with a sufficiently high mark in Botany at Advanced level in a General Certificate of Education Examination *(or who possess approved equivalent qualifications) may apply for exemption from the course and examination in Botany of the First Examination.

Second Examination

The Second Examination shall consist of four Parts:—

Part I The Properties of Dental Materials.

Part II Anatomy.
Physiology.

* Passes at principal standard in a Higher School Certificate examination or in the 1st M.B., B.S., or Intermediate B.Sc. examinations of the University of London are approved for these purposes, provided in the case of Botany, a sufficiently high mark is obtained.

Part III Dental Anatomy and Physiology.

Dental Pharmacy and Pharmacology.

Part IV Dental Mechanics.

Candidates may pass in each Part separately.

Candidates, before presenting themselves for the Second examination, are required to have attended courses of instruction recognised by the University, as follows :—

The Properties of Dental Materials : lectures and laboratory work : two terms.

Anatomy : lectures and practical work : three terms.

Physiology : lectures and practical work : three terms.

Dental Anatomy and Physiology : lectures : two terms.

Dental Histology : practical work : one term.

Dental Pharmacy : lectures and demonstrations : one term.

Pharmacology : lectures and demonstrations : one term.

Dental Mechanics : lectures : two terms.

Candidates for Part IV of the Second examination shall be required to have spent two years in the Department of Dental Mechanics of a recognised Dental or General Hospital, or one year in such Department in the event of their having completed not less than two years in pupilage to a registered dentist. The examinations will be held twice in each calendar year.

Candidates who fail to satisfy the Examiners in any subject of the examination must, before being re-admitted to examination, produce evidence of having pursued such further study as may have been required by the Examiners.

Third Examination

The Third examination shall consist of two Parts :—

Part I General Pathology and Bacteriology.

Part II Medicine.

Surgery.

Candidates may pass in each Part separately.

Candidates, before presenting themselves for the Third examination, are required to have attended courses of instruction recognised by the University, as follows :—

General Pathology and Bacteriology : three terms.

Medicine : lectures : one term.

Medicine : tutorial and clinical : one term.

Surgery : lectures : one term.

Surgery : tutorial and clinical : one term.

Candidates for the Third examination, Part II, shall also be required to present certificates of Medical and Surgical practice recognised by the University, as follows :—

Junior Postmortem Clerkship : three months.

Surgical Out-patient Dressership : three months.

Aural Out-patient Dressership : three months.

The Third examination will be held twice in each calendar year.

Candidates who fail to satisfy the Examiners in any subject of the examination must, before being re-admitted to examination, produce evidence of having pursued such further study as may have been required by the Examiners.

Final Examination

The Final Examination shall consist of :—

Dental Surgery

Clinical Dental Surgery (including Operative Dental Surgery, Oral Surgery, Orthodontia, Radiology and Prosthetics).

Special Pathology and Bacteriology.

Candidates must have passed the First, Second and Third examinations before being examined in the Final

examination and must have attended courses of instruction recognised by the University as follows:—

Special Pathology and Bacteriology: one term.

Dental Surgery: lectures: two terms.

Operative Dental Surgery: lectures: one term.

Orthodontia: lectures: one term.

Radiology: lectures: one term.

Anæsthetics: one term.

Dental Hospital practice: two years.

The Final examination shall be held twice in each calendar year.

Candidates who fail to satisfy the Examiners in any subject of the examination must, before being re-admitted to examination, produce evidence of having pursued such further study as may have been required by the Examiners.

NORMAL DENTAL COURSE

B.Ch.D. and L.D.S.

FIRST TERM.	SECOND TERM.	THIRD TERM.
<i>First Year.</i> Physics. Chemistry. Botany. Zoology.	Physics. Chemistry. Botany. Zoology.	Physics. Chemistry. Botany. Zoology. <i>First Examination:</i> <i>Part I. :—</i> Physics and Chemistry. <i>Part II. :—</i> Botany and Zoology. (June and September).
<i>Second Year.</i> Anatomy. Physiology. The Properties of Dental Materials. Dental Laboratory.	Anatomy. Physiology. The Properties of Dental Materials. Dental Laboratory. <i>Second Examination :</i> <i>Part I. :—</i> The Properties of Dental Materials. (March and September).	Anatomy. Physiology. Dental Laboratory. <i>Second Examination :</i> <i>Part II. :—</i> Anatomy and Physiology. (June and September).
<i>Third Year.</i> Dental Mechanics Lectures. Dental Anatomy and Physiology. Pharmacology. Dental Laboratory.	Dental Mechanics Lectures. Dental Anatomy and Physiology. Dental Histology. Pharmacology. Dental Pharmacy. Dental Laboratory. <i>Second Examination :</i> <i>Part III. :—</i> Dental Anatomy and Physiology. Dental Pharmacy and Pharmacology. (March and September).	Surgery Lectures. Dental Laboratory. <i>Second Examination :</i> <i>Part IV. :—</i> Dental Mechanics. (September and March).
<i>Fourth Year.</i> Pathology and Bacteriology. General Anaesthetics Lectures. P.M. Clerkship. Surgery Lectures. General Hospital Practice. Dental Hospital Practice.	Pathology and Bacteriology. Medicine Lectures. Clinical Medicine (Tutorial). Clinical Surgery. General Hospital Practice. Dental Hospital Practice.	Pathology and Bacteriology. Clinical Medicine (Tutorial). Radiology Lectures. Orthodontics Lectures. General Hospital Practice. Dental Hospital Practice. <i>Third Examination :</i> <i>Part I. :—</i> General Pathology and Bacteriology. (June and September). <i>Part II. :—</i> Medicine and Surgery. (September and March).

N.B.—Attendance at Dental Laboratory and Dental Hospital Practice is required during vacations.

FIRST TERM.	SECOND TERM.	THIRD TERM.
<i>Fifth Year.</i> Special Pathology and Bacteriology. Orthodontics Lectures. Dental Surgery Lectures. Dental Hospital Practice.	Special Pathology and Bacteriology. Dental Surgery Lectures. Dental Hospital Practice.	Dental Hospital Practice <i>Final L.D.S. Examination;</i> Clinical Dental Surgery. Dental Surgery. Special Pathology and Bacteriology. (September and March)
<i>Sixth Year.</i> Dental Hospital Practice.	Dental Hospital Practice. <i>Final B.Ch.D. Examination:</i> Clinical Dental Surgery Dental Surgery. Special Pathology and Bacteriology. (March and September).	

REGULATIONS FOR THE DENTAL SCHOOL LIBRARY

1. HOURS OF OPENING.

The Library is open on—

Monday to Friday from 9 a.m.—5 p.m.

Saturday from 9 a.m.—1 p.m.

except during the long vacation when it is open on—

Monday to Friday from 9 a.m.—5 p.m.,

Saturday from 9 a.m.—12.30 p.m.

It is closed from December 24th to 30th 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 and students of the School of Medicine and School of Dentistry are entitled to the use of the Library subject to the following regulations.

(b) Students, other than medical and dental students, may be allowed to use the Library only on production of a written recommendation from the head of the appropriate department and with the permission of the Librarian.

(c) Other persons may be allowed by the Librarian to consult books on stating the subject of their studies and on producing a satisfactory recommendation. In special cases and on payment of ten shillings for twelve months they may also 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 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.

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 sixpence for each day or portion of a day on which the book is retained.

(d) No person shall borrow a book from the Library if he has in his possession any book which he has kept beyond the time allowed by the regulations or if any fine or charge which he has incurred has not been paid.

(e) Theses of the University shall not be consulted or borrowed without the consent of the head of the appropriate department.

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

5. BORROWING BY STAFF AND RESEARCH STUDENTS.

(a) Members of the Academic Staff shall be entitled to have at one time not more than twenty books borrowed from the Library, unless this number is increased by the special permission of the Librarian. Books may be retained until a notice is received from the Librarian that they are overdue, in which case they shall be returned to the Library without delay. A book shall be regarded as overdue when it has been in the possession of the borrower for a fortnight and is required by another person.

(b) Post graduate students and students in the final year of an honours school shall have the same privileges and be subject to the same regulations in respect of borrowing from the Library as members of the Academic Staff except that they may not have at one time more than ten books in their possession.

6. BORROWING BY STUDENTS.

(a) Students shall have the right to borrow not more than three books 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 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 March. 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 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 mentioned in the application. The cost of postage is charged to the applicant.

SCHOLARSHIPS AND GRANTS

Particulars of University Entrance Scholarships are contained in the Scholarship Prospectus (price 3d.) which may be obtained from the Registrar of the University.

POST GRADUATE COURSES

Dental practitioners desirous of taking post graduate courses of instruction should apply for particulars to the Warden.

RESIDENCE

Students who do not live at home are required to reside in the Halls of the University or in approved lodgings.

Information regarding the Halls may be obtained by all students from the Registrar and regarding lodgings, by men students, from the Lodgings Warden, The University, Leeds, 2.

Women students are not normally expected to live in lodgings but where accommodation in the Halls is not available, information regarding approved lodgings may be obtained from the Warden of Women Students in Lodgings, The University, Leeds, 2.

PRIZES AND CERTIFICATES OF MERIT

Examinations for Prizes and Certificates of Merit are held annually as follows :—

Charles Rippon Medal

Mr. Charles Rippon, Ph.D., L.D.S., on his retirement from the Lectureship in Dental Mechanics, presented to the University the sum of £100 to provide a Silver Medal, to be awarded annually to the most distinguished student of the year in the School of Dentistry.

1. Candidates for the Medal must be students who are in the final year* of a normal full curriculum for a qualification in Dental Surgery (B.Ch.D. or L.D.S.) and who have pursued the full qualifying course at Leeds University after registration.
2. The award will be made in October by the Board of the Faculty of Medicine on the nomination of the Clinical Dental Committee. 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 the reports of the tutors in the various clinical departments of the School.
3. No Student will be allowed to compete for the medal more than once.
4. If two candidates show equal distinction two medals may be awarded, should there be sufficient funds for the purpose.

The Percy Leigh Medal

Mr. Percy T. Leigh, L.D.S., R.C.S. (Eng.), L.D.S. (Glasgow) presented to the University, with a view to the encouragement of the Science and Art of Dental

*In determining the final year due consideration will be given to the case of students who may have combined B.Sc. and M.B., Ch B. courses with the dental curriculum.

Mechanics, the sum of £105 to provide a Gold Medal* to be awarded annually to the most skilled senior pupil of the year in the Dental Mechanics Laboratory of the Dental School.

The conditions of award are as follows :—

1. A Gold 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.
2. The award will be made by the Board of the Faculty of Medicine on the nomination of the Clinical Dental Committee.
3. The Medal will be awarded on (a) the result of an examination in Dental Mechanics to be held annually ; (b) a consideration of the candidate's general record. A high standard of skill must be shown.
4. No student will be permitted to compete for the Medal more than once.
5. If two candidates are equally deserving of the award, two Gold Medals may be awarded.

Percy Leigh Prize in Clinical Dental Surgery

Mr. Percy T. Leigh, L.D.S., R.C.S. (Eng.), L.D.S. (Glas.), to mark his year of office (1935-36) as the 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.

The award will be made by the Board of the Faculty of Medicine on the recommendation of the Clinical Dental Committee.

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.

* At the present time it is not possible to provide *gold* medals.

Candidates must be students of the University of Leeds who are in the final year of a normal curriculum for a qualification in Dental Surgery (B.Ch.D. or L.D.S.), and no candidate may compete more than once for the Prize.

Operative Dental Surgery : Third Year Students

Prize value two guineas. The examination will be partly written, practical and oral—the practical part involving the treatment of teeth by filling and extraction.

Operative Dental Surgery : Final Year Students

Prize value five guineas.

Orthodontics : Final Year Students

Prize value five guineas. Candidates will be required to submit for examination models of cases (not less than two in number) which they have completed in the Orthodontic clinic, together with written descriptions of the treatment followed, and to take a written examination.

Extractions

Prize value two guineas. Open to final year students for proficiency in the extraction of teeth.

Dental Mechanics : First Year Students

Prize value two guineas.

Dental Mechanics : Second Year Students

Prize value five guineas.

Students may compete only for Prizes and Certificates in their respective years, and may not enter twice for the same examination.

**LEEDS UNIVERSITY UNION DENTAL
STUDENTS' SOCIETY**

All dental students are urged to join this Society. Meetings are held during the session, at which members of the medical and dental professions read scientific papers of interest to the dental student. The society also caters for the social side of the school life and holds annually a dance and a dinner.

FEES**General Regulations**

The composition fees for lecture and laboratory courses may be paid either sessionally in advance, or (with certain exceptions) terminally by instalments. Fees paid by instalments are at a slightly higher rate than when paid in advance. The terminal instalment scales of fees are not applicable to students ordinarily resident outside the British Isles; such students must pay fees sessionally in advance.

A student ceasing, for any reason whatsoever, to attend at the University during the session has no claim to a return of fees.

A student who elects to pay composition 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 fee.

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 receipt entitling the student to attend such courses. This receipt must be presented by the student, before commencing attendance, to the Professors or Lecturers whose classes or lectures he is authorised to attend.

Students are required to pay a Registration Fee of £2* when their application for admission to the University is accepted.

Fees may be paid either in the Secretary's Office, Dental School, or in the Fees Office, Parkinson Buildings. Cheques should be made payable to "The University of Leeds."

* The Registration Fee payable by overseas students is £5

Complete course (including Pre-Registration course, Pupilage, Dental and General Hospital practice and Union Fees):—

1. For the Degree of B.Ch.D. :—

	When paid sessionally in advance.		When paid in terminal instalments on the 1st day of each term.					
			1st term.		2nd term.		3rd term.	
1st Session	..	£1	..	£1	..	£20	..	£12
2nd Session	..	£1	..	£1	..	£20	..	£12
3rd Session	..	£1	..	£1	..	£20	..	£12
4th Session	..	£1	..	£1	..	£20	..	£12
5th Session	..	£6	..	•	..	•	..	•
6th Session	..	£20	..	•	..	•	..	•
Total	..	†£290						

2. For the Diploma in Dental Surgery :—

	£		£		£		£	
	£	£	£	£	£	£	£	£
1st Session ..	61	..	31	..	20	..	12	..
2nd Session ..	61	..	31	..	20	..	12	..
3rd Session ..	61	..	31	..	20	..	12	..
4th Session ..	61	..	31	..	20	..	12	..
5th Session ..	26	..	*	..	*	..	*	..
Total ..	†£270							

II. Pupilage Fees

	£	s.	d.
For six months additional pupilage in dental mechanics	20	0	0
For three months additional pupilage	..	10	0

III. Dental Practice Fees

For six months additional	..	..	..	..	20	0	0
For three months additional	..	..	..	..	10	0	0
For Post-Graduate work (per half day)	..	..	..	..	1	0	0

IV. Recapitulation Fees

Anatomy	..	..	..	..	..	5	0	0
Physiology	..	..	..	..	..	5	0	0
Anatomy and Physiology (concurrently)	..	..	..	..	..	8	0	0
Dental Anatomy and Physiology (3 months)	..	..	..	..	..	3	0	0

* Instalment scale not applicable.

† Reduced by £15 if paid in one sum at commencement of first year.

‡ Reduced by £14 if paid in one sum at commencement of first year.

V. Examination Fees, etc.

	£	s.	d.
Matriculation	2	0	0
Registration of an External Matriculation Certificate	2	0	0
Pre-Registration Examination (External Candidates)	3	0	0
B.Ch.D. { First Examination	6	0	0
and { Second	5	0	0
L.D.S. { Third and Final Examination	5	0	0
Conferment of Diploma	6	0	0
" " Degree	†7	0	0

The fees are the same for re-examination as for original examination, except that in cases where one subject only is taken the fee is £3.

VI. Locker Fee and Breakages Deposit

A deposit of £2 is payable at the beginning of the Dental course. Half of this amount will be retained as locker rent, the balance being returnable at the end of the course less the cost of replacing keys, apparatus, etc., lost or broken by the students in the Dental Hospital. If at any time during the course the total cost of replacements exceeds £1, a further deposit of £1 will be payable. Any breakages in the Chemistry Department during the first year of a student's course will be charged separately at the end of the year.

VII: Rental for Dental Engine

A rental of £2 is payable by students commencing Dental Hospital Practice for the loan of a dental foot engine or electric unit.

VIII. Cost of Dental Education, shewing incidence of charges

On the following pages are set forth expenses of Dental Education showing approximately how the various charges fall due if the fees are paid by instalments and examinations taken at the earliest possible date.

It is assumed that the student will enter on the course in October.

† Including £1 Parliamentary Registration and Convocation Fee.

Composition fees cover a normal Dental course as set out in the *Calendar* or *Prospectus*. Supplementary fees are payable where the course taken exceeds the normal period of instruction.

(a) Degree in Dental Surgery (B.Ch.D.)

The total cost will be reduced by £15 if those fees marked * are paid in one sum instead of by instalments.

(Before entry)	£	s.	d.	£	s.	d.
Matriculation Examination ..	3	0	0			
Registration Fee (on acceptance) ..	2	0	0			
				5	0	0
<i>First Year.</i>						
Composition Fee—First Instalment ..	*61	0	0			
Locker and breakages deposit ..	2	0	0			
Microscope and Books ..	57	0	0			
Chemical Apparatus ..	7	0	0			
First Examination Fee ..	6	0	0			
				133	0	0
<i>Second Year.</i>						
Composition Fee—Second Instalment ..	*61	0	0			
Books ..	5	0	0			
Anatomy Charges ..	5	0	0			
Laboratory Tools ..	20	0	0			
Second Examination Fee ..	5	0	0			
				96	0	0
<i>Third Year.</i>						
Composition Fee—Third Instalment ..	*61	0	0			
				61	0	0
<i>Fourth Year.</i>						
Composition Fee—Fourth Instalment ..	*61	0	0			
Operating Instruments ..	65	0	0			
Books ..	5	0	0			
Unit and Engine Rent ..	2	0	0			
Third and Final Examination Fee ..	5	0	0			
				138	0	0
<i>Fifth Year.</i>						
Composition Fee—Fifth Instalment ..	*26	0	0			
				26	0	0
<i>Sixth Year.</i>						
Composition Fee—Sixth Instalment ..	*20	0	0			
Graduation, Parliamentary Registration and Convocation ..	7	0	0			
				27	0	0
Approximate Total Cost ..				£486	0	0

(b) Diploma in Dental Surgery (L.D.S.)

The total cost will be reduced by £14 if the fees marked † are paid in one sum instead of by instalments.

(Before entry).	£	s.	d.	£	s.	d.
Matriculation or some other recognised preliminary examination, say		3	0	0		
Registration Fee (on acceptance)	..	2	0	0		
				5	0	0

First Year.

Composition Fee—First Instalment	†61	0	0			
Locker and breakages deposit	..	2	0	0		
Microscope and Books	..	57	0	0		
Chemical Apparatus	..	7	0	0		
First Examination Fee	..	6	0	0		
				133	0	0

Second Year.

Composition Fee—Second Instalment	†61	0	0			
Books	..	5	0	0		
Anatomy Charges	..	5	0	0		
Laboratory Tools	..	20	0	0		
Second Examination Fee	..	5	0	0		
				96	0	0

Third Year.

Composition Fee—Third Instalment..	†61	0	0			
				61	0	0

Fourth Year.

Composition Fee—Fourth Instalment	†61	0	0			
Operating Instruments	..	65	0	0		
Books	..	5	0	0		
Unit and Engine Rent	..	2	0	0		
Third and Final Examination Fee	..	5	0	0		
				138	0	0

Fifth Year.

Composition Fee—Fifth Instalment	†26	0	0			
Conferment of Diploma	..	6	0	0		
				32	0	0
Approximate Total Cost	..			£465	0	0

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 W.E.A. through the Joint Tutorial Classes Committee of the Department. 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 Lectures, given usually by members of the staff of the University. The Extension Lecture courses are provided for students not associated with the W.E.A., 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. The courses may vary in length from as few as four or six to twenty or twenty-four meetings, or they may, as in the case of Tutorial Classes, be planned to extend over more than one session. The subjects offered include the liberal studies mentioned in the previous paragraph, but courses of a vocational or semi-vocational character, in science or technology, may also be arranged, provided that the standard of work required is comparable with work done inside the University. In the case of classes of a non-vocational character a small fee is charged to students. In the case of vocational courses, either the organisation requesting the course, or the individuals attending it, are normally expected to pay the whole of the cost, which will generally depend upon the number of lectures.

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 :—

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 :—

- (1) attended not less than 75 per cent. of the meetings in each session ;
- (2) done such other work as the Tutor has required of them ;
- (3) passed an examination at the end of each session.

The Certificate shall be endorsed for the subject of the Course.

A mark of Distinction may be awarded on the result of the final examination.

Arrangements can be made for day-time and for residential courses, as well as for evening courses.

INSTITUTE OF EDUCATION

The objects, functions and organisation of the Institute of Education are set out in the Ordinance (see pages 60-70 of this calendar) under which it was constituted in 1948.

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 such students to the Ministry of Education for recommendation as qualified teachers.

For teachers of experience who wish to undertake further educational studies and research, the University has established a number of Diplomas, awarded after a period spent in advanced study or investigation pursued part-time or full-time under the direction of the Institute.

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 syllabuses and examining regulations, the Institute issues two periodicals (i) a termly *Bulletin* and (ii) *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 also organises individual lectures by noted educationists in the larger towns of the region, and conferences and courses, both day, evening and residential, on teaching methods, the philosophy of education, educational psychology, and allied subjects.

A Senior Research Fellowship has been established in the Institute since 1949, and a second Research Fellowship since 1951. For the last two sessions the Institute has set aside money for the award of grants not exceeding £25 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

NOTE.—Subject to certain conditions, supplemental awards may be made to holders of University Entrance, Senior and Post-Graduate Scholarships by the Ministry of Education. The awards, which are only available when the Senate certifies that the holder is a person of exceptionally high academic standard, increase the value of the Scholarships up to a standard figure of maintenance equivalent to that which obtains for State Scholarships. The amount of each supplement is assessed by the Ministry in the light of the financial circumstances of the scholar.

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 are required to devote the whole of their time to their studies, except so far as stated below. The undertaking by a Scholar or Fellow of outside work, such as teaching or the acceptance of any post of profit outside the University will involve surrender of the Scholarship or Fellowship, unless such work be undertaken with the sanction of the Vice-Chancellor. The Clothworkers' Scholars and others preparing for any profession or trade, the principles of which are taught

in the University, will be granted special exemption from this rule if the Senate is satisfied that an adequate cause has been shown for such exemption and approves the arrangement proposed in each particular case.

4. The Senate reserves power to declare any Scholarship or Fellowship vacant or to reduce its value on the ground that the Scholar 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.

**Frank Parkinson Fund for Fellowships, Scholarships
and Exhibitions**

In 1936 Mr. Frank Parkinson, a former student and Baines Scholar of the University, made over the sum of £50,000 to the University 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 larger 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 post-graduate research work through lack of means."

The income from the Fund amounts to approximately £1,700 per annum, and is intended to assist (a) persons of proved ability and in need of financial help to enter or to continue their studies at the University; (b) distinguished graduates of the University desiring and unable without financial help to pursue after graduation, for a period of one or two years, research, further study or a course of post-graduate training.

The Fund is under the management of a Committee set up by the Senate and containing representatives

nominated by the Council. The procedure of the Committee is governed by regulations made by the Senate and approved by the Council and the donor.

The amounts and number of the Fellowships, Scholarships, Exhibitions or Grants awarded to individual candidates will vary according to circumstances.

The following Regulations apply to all candidates :—

1. Beneficiaries under the Fund must be born of British parents who have been domiciled in Yorkshire for a period of not less than ten years. The years of domicile need not be successive, but must amount to ten in the aggregate.
2. All candidates must supply proof of eligibility in respect of the British nationality and Yorkshire domicile of parents.

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.

3. 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.
4. 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.
5. The amount of the Fellowships, Scholarships or Grants would normally be determined with due regard to the needs and means of the successful candidates. The scope of the Fund would not be limited to the payment of fees and the provision of books and other necessary equipment, but would, in appropriate cases, be

extended to include the maintenance or part maintenance of the successful candidate.

6. 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.

The following additional Regulations apply to candidates entering the University for the first time and to undergraduates already in residence at the University :—

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 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 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.

The following additional Regulations apply to candidates who are graduates of the University and who wish to undertake a course of postgraduate study or research or training:—

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.

Applications from candidates entering the University for the first time must be submitted to the Registrar not later than 30th June on a form to be obtained from him.

ENTRANCE SCHOLARSHIPS

Frank Parkinson Fund

Conditions of award of Entrance Scholarships and Exhibitions under this Fund are set out in previous pages.

Corbet and Henry Woodall Scholarship in Gas Engineering

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. The value of the Scholarship is now approximately £135 per annum 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. 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.

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 (i) to produce evidence of having reached a standard of scientific or technological education sufficient to enable them to take advantage of the B.Sc. degree course in Gas Engineering, and (ii) to give an undertaking of their intention to follow the profession of gas engineer. On each vacancy the award of the scholarship will ordinarily be made during the month of June, after due advertisement in the technical press. The Scholarship will be awarded by the Senate after consultation with the Corbet Woodall Scholarship Committee.

Each candidate is required to submit (i) a statement of his previous education and of his scientific or technological qualifications, (ii) testimonials (a) from the head of the Institute in which he received his previous education, (b) if he has been already engaged in a gas engineering works, from the engineer of the works. 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 first award was made in 1916.

**William Cartwright Holmes Scholarship
in Gas Engineering**

This Scholarship was endowed in 1929 by Mr. P. F. Holmes and Mr. D. M. Henshaw as a memorial to William Cartwright Holmes of Huddersfield.

The Scholarship is held at the University of Leeds. The normal value of the Scholarship is £120* per annum, 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.

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.

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.

Candidates for election to the Scholarship are required (i) to produce evidence of having reached a standard of scientific or technological education sufficient to enable them to take advantage of the B.Sc. degree course in Gas Engineering, and (ii) to give an undertaking of their intention to follow the profession of gas engineering.

* This value may be increased in necessitous cases.

As each vacancy occurs the award of the Scholarship will ordinarily be made during the month of June, after advertisement in the technical press.

The Scholarship will be awarded by the Senate after consultation with the William Cartwright Holmes Scholarship Committee.

Each candidate is required to submit (i) a statement of his previous education and of his scientific or technological qualifications; (ii) testimonials (*a*) from the head of the Institute or other organisation in which he received his previous education; (*b*) if he has been already engaged in a gas engineering works, from the Engineer or Manager of the works.

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.

Blanche L. Leigh Scholarship in Music

Mrs. Percy Leigh presented to the University in 1931 a sum of money for the establishment of a scholarship or scholarships in Music.

The Scholarship is of the annual value of between £30 and £70 and is tenable for three years.

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.

The Scholarship will be awarded on the result of an examination in Music including (1) Harmony in not more than four parts, (2) the History of Music and (3) Ear Tests.

The Scholar will be required throughout the term of his scholarship to attend courses of instruction in the University of Leeds either (*a*) as required for the degree of B.A. in General Studies of the University, a three years course in Music being included, or (*b*) as required for the degree of B.Mus. of the University.

The examination will normally be held in September. When a vacancy occurs particulars of the examination will be advertised in the public press.

William Arthur Crabtree Scholarships

1. The William Arthur Crabtree Scholarships, each of the approximate annual value of £40, were established in 1949 with a sum of money bequeathed to the University for this purpose by the late William Arthur Crabtree. Income in any year which is not allocated, may be added to the capital invested.

2. The Scholarships, which are open on equal terms to men and women, are tenable in the first instance for one year but may be renewed annually, subject to a satisfactory report on the work of the Scholar in the previous year.

3. The holders of the scholarships will be required to take courses leading to a degree in the University.

4. In making the award the University will take into consideration scholastic attainments, intellectual ability, and qualities of character and personality.

5. Candidates must submit a written statement giving particulars of their age, school career, public examination results, general interests and activities. This must be supported by a statement from the Head Master 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.

7. Applications must be received by the Registrar not later than 30th June.

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 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.

7. Applications must be received by the Registrar not later than 30th June.

William Briggs Scholarship Fund

In 1932 Dr. William Briggs endowed these scholarships with the sum of £2,100

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.

The awards will be made by the Senate on the recommendation of the Scholarships Committee.

Candidates desiring to apply for these Scholarships should make application on the appropriate form, which can be obtained from the Registrar, *not later than 30th June in the case of new entrants.*

John Gilbert Vause Memorial Scholarship

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.

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. It is open to matriculated students of the University of Leeds and graduates in Arts or Science of a British University, preference being given, *ceteris paribus*, to candidates who are or have been pupils of the Leeds Grammar School.

The Scholar is required to pursue the courses prescribed for the degrees of Bachelor of Medicine and Bachelor of Surgery (M.B., Ch.B.) of this University.

The Scholarship is awarded by the Senate on the recommendation of a special committee after interview of candidates and consideration of their records.

Applications must be sent to the Registrar not later than 30th June.

John Deakin Heaton Scholarship

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.

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. It is open to matriculated students of the University of Leeds and to graduates in Arts or Science of a British University.

The Scholar is required to pursue the courses prescribed for the degrees of Bachelor of Medicine and Bachelor of Surgery (M.B., Ch.B.) of this University.

The Scholarship is awarded by the Senate on the recommendation of a special committee after interview of candidates and consideration of their records.

Applications must be sent to the Registrar not later than 30th June.

James Graham Memorial Entrance Scholarship

1. This 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 25 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 Economics and Commerce 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 an elementary 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 Benjamin Bland Entrance Scholarship

1. This Scholarship was endowed in 1933 by the late Miss Ann Bland, of Idle, Bradford, in memory of her father, the late Benjamin Bland of Idle. The donor

bequeathed the sum of £1,500 to institute a Scholarship to be known as "The Benjamin Bland Scholarship" for the purpose of assisting students from the township of Idle to proceed to the University.

2. The Scholarship is normally of the annual value of £50 and tenable for three academic years.

3. Candidates must have been born in the township of Idle and resident therein for the two years immediately preceding the award of the Scholarship.

4. The award of the Scholarship shall be made by the Senate after such examination or test of the candidates as the Senate may from time to time impose. The award of the Scholarship is conditional on presentation of a satisfactory medical certificate from an officer appointed for the purpose by the University.

5. Any surplus funds in any particular year may be utilised by the Senate at their discretion in awarding a second scholarship to the next most deserving candidate as evidenced by the aforesaid examination or test.

6. The Scholar or Scholars elected will be required to pursue such courses in any of the Faculties of the University as may be considered most advisable by the Senate, having regard to the particular aptitude of the boy or girl in question and the desire of his or her parents or guardian.

7. Any vacancy in the Scholarship will be duly announced in the public press, and applications should be sent to the Registrar not later than 30th June.

Shell Scholarships in Mining or Petroleum Engineering

Two Scholarships in mining or petroleum engineering (each of the value of £200 per annum) have been made available, tenable at the University by a student in attendance upon the Honours degree course in the Mining Department.

The scholarships are tenable for three sessions. Their continuance each year will be subject to a satisfactory report on the work of the scholar in the previous year.

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.

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.

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.

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.

The awards will be made after interview. Selected candidates shall be required to attend at the University for this purpose.

Applications should be sent to the Registrar not later than 30th June.

Dr. Walter Hargreaves Scholarship

1. This 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 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.

Richard Sutcliffe Scholarship in Mining.

1. The firm of Messrs. Richard Sutcliffe Limited has made available a scholarship in Mining of the value of £160 per annum.

2. The Scholarship is open to employees of Messrs. Richard Sutcliffe Limited on the same conditions as to other persons.

3. The Scholarship, which will be 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 B.Sc. with Honours in Mining of this University.

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.

8. Applications must be received by the Registrar not later than the 30th June.

**North Western Gas Board Scholarships in
Gas and Chemical Engineering**

The North Western Gas Board has provided two Scholarships of value up to £120 per annum in order to enable promising students to follow courses in Gas Engineering and Chemical Engineering in the Department of Coal Gas and Fuel Industries with Metallurgy.

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.

The scholarships are open to applicants from school and to applicants who are already engaged in industry.

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, 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, The University, Leeds, 2.

Scholarships will be advertised in May each year.

The awards will be made after interview. Candidates will be required to attend at the University for this purpose.

Applications must be submitted to the Registrar not later than 30th June.

**Charles Brotherton Scholarships in
Chemical Engineering and Gas Engineering**

In 1942 Mr. Charles Brotherton agreed to provide two scholarships of value up to £125 per annum in order to enable promising students to follow courses in Chemical Engineering and Gas Engineering in the Department of Coal Gas and Fuel Industries with Metallurgy.

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.

The scholarships are open to applicants from school and to applicants who are already engaged in industry.

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, 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, The University, Leeds, 2.

The awards will be made after interview. Candidates will be required to attend at the University for this purpose.

Applications must be submitted to the Registrar not later than 30th June.

Power-Gas Corporation Scholarship

1. This Scholarship, of the annual value of £150, was founded in 1947 by the Power-Gas Corporation Ltd. to enable suitably qualified students to undertake a course of study leading to a degree in either Gas Engineering, Chemical Engineering, Mechanical Engineering or Civil Engineering.

2. Other things being equal, preference will be given to candidates —

(a) who reside within the boundaries of the Boroughs of Stockton-on-Tees or Thornaby-on-Tees,

or

(b) who attended any type of Grammar School or Secondary School in Stockton or Thornaby,

or

(c) who are either employees or the children of employees of the Power-Gas Corporation Ltd. or of Messrs. Ashmore, Benson, Pease & Co., Ltd.

An award will not normally be made to a candidate who will be over the age of 19 years on the 1st October in the year of the award.

3. The Scholarship will normally be tenable for three years, but in exceptional cases may be extended for a fourth year. The continuation of the Scholarship after the first year will be subject to a satisfactory report on the work of the Scholar in the previous year.

4. The award will be made by the Senate in consultation with a representative of the Power-Gas Corporation Ltd.

5. Candidates must give references as to character from not less than two persons who shall not be relatives of the candidate, and one of whom shall be the Head of the School or Institute in which he received his previous education. Candidates must furnish a written personal statement concerning their general interests and activities, including sports, their proposed course of study and their intended careers after completing their studies. The award will be made after interview and candidates will be required to attend at the University for this purpose.

6. Applications must be sent to the Registrar not later than 30th June.

Charles Brotherton Scholarships in Colour Chemistry

Two Entrance Scholarships each of the value of £125 per annum, tenable at the University by students in attendance upon the Honours degree course in the Colour Chemistry and Dyeing Department, were made available in 1940 by Mr. Charles Brotherton of Leeds.

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 B.Sc. 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.

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.

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.

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.

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.

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 per annum in a subsequent year or as a Scholarship for an undergraduate already in residence at the University and studying for the Honours degree 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.

Applications should be sent to the Registrar before 30th June.

Matthews Scholarship in Colour Chemistry and Dyeing.

1. This 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 B.Sc. 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 per annum according to 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.

5. Applications must be received by the Registrar not later than 30th June.

West Coast Tanneries Limited Scholarship

1. The West Coast Tanneries Limited, Millom, Cumberland, has made available for a period of three years, in the first instance, £200 per annum, for a Scholarship of this value to be awarded to an applicant suitably qualified to study for the degree of B.Sc. in the Department of Leather Industries.

2. The Scholarship is open both to applicants from schools and to those already engaged in industry.

3. Selected candidates will be required to attend at the University for interview; the award will be made by the Senate.

Enquiries as to whether an application for this Scholarship can be considered from anyone wishing to commence study at the University in October, 1954, should reach the Registrar not later than 31st March, 1954.

Woolmen's Company Scholarship

1. This Scholarship was founded in 1927 by the Worshipful Company of Woolmen with the object of encouraging study in connexion 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 Textile Industries Department and is desirous of completing his degree or diploma course of study in that Department.

Preference will be given to candidates whose means are otherwise insufficient to enable them to pursue their studies in the University.

4. When a vacancy occurs the Scholarship will be advertised in the press. Applications should be sent to the Registrar not later than 30th June. Applicants may be required to present themselves for a special examination, which will be held in September.

Courtauld Entrance Scholarships in Textile Technology

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.

The value of the Scholarships will be £50 per annum for three years, and awards will be made on the results of examinations for the General Certificate of Education.

Candidates should submit their applications to the Registrar not later than 30th June.

Joe Haley Scholarship

1. The Joe Haley Scholarships were established in 1948 under the terms of the will of Mrs. Annie Haley, who bequeathed two thousand pounds 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 :

- (a) 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.
- (b) Holders of Scholarships shall pursue a full-time course of study for a first degree of this University or shall engage in full-time research.
- (c) 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.
- (d) 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.
- (e) Income not expended in any year may be added to the capital funds of the Scholarship or used for payment of maintenance grants to students who can comply with the requirements set out above.
- (f) Applications should be sent to the Registrar not later than 30th June.

Edward Baines Scholarship

The Edward Baines Scholarships, founded in 1880, are 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 and occupied that position for a period of 50 years).

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.

Candidates must not be under 18 or over 30 years of age.

The Scholarship will be of the value of £50 per year. This amount will cover the 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.

Applications must be made on forms which may be obtained from the Registrar, The University, Leeds; applications should be sent in not later than 30th June. Candidates will be required to produce a nomination or recommendation from the Managers of the School endorsed by their employers.

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.

CITY AND COUNTY COUNCIL SCHOLARSHIPS

Scholarships tenable at the University are offered by the Leeds City Council and the County Councils of the North, East and West Ridings of Yorkshire.

Application for further information should be made as follows :

For Leeds City Council Scholarships : To the Director of Education (Higher Section), Education Offices, Leeds, 1.

For West Riding Scholarships and Free Studentships : To the Chief Education Officer, County Hall, Wakefield.

For North Riding Scholarships : To the Secretary, County Education Offices, County Hall, Northallerton.

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

SENIOR SCHOLARSHIPS**Frank Parkinson Fund**

Conditions of award of Scholarships under this Fund are set out in previous pages.

REGULATIONS

1. Senior Scholarships are open to all students of the University who have completed one or more sessions in the University.

2. Elections to Senior Scholarships are made on the basis of results of the June degree and departmental examinations and are announced in July.

3. Senior Scholarships, unless otherwise specified, are in the first instance tenable for one year but are renewable.

4. Senior Scholars are normally required to pursue courses of study for degrees of the University.

5. The monetary value attached to any Senior Scholarship is determined after consideration of the financial circumstances of the Scholar.

6. The following Senior Scholarships are available :

Emsley.	Brown.	Infirmary.
Edward Baines.	Lowson.	Stephenson Clarke.
Charles Wheatley.	Craven.	Alfred Lund.
William Summers.	Salt.	Clothworkers'.
Akroyd.	Medical.	

DETAILED REGULATIONS

NOTE.—Several of the Scholarships mentioned below were formerly awarded as Entrance Scholarships but are now offered for competition as Senior Scholarships and are normally open only to students who are actually in attendance at the University.

Students in attendance at the University are not required to make application for election to Senior Scholarships.

Emsley Scholarship

This 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.

The Scholarship is tenable in the Faculties of Arts, Science or Technology (except in Textile Industries).

Edward Baines Scholarship

The Edward Baines Scholarships, founded in 1885, are 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.

The Scholarship is tenable in the Faculties of Arts, Science or Technology (except in Textile Industries).

Charles Wheatley Scholarship

This 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.

The Scholarship is tenable in the Faculty of Arts and the Scholar elected will be required to pursue a course for the degree of B.A. or LL.B. of the University.

William Summers Scholar

This Scholarship was founded by Mr. and Mrs. Buckley, of Ryecroft Hall, Audenshaw, near Manchester, in memory of William Summers, Esq., late M.P. for Huddersfield, and for many years a member of the Court of the Victoria University.

Candidates for this Scholarship must have been resident in the Parliamentary Borough of Huddersfield during one full year, or must have attended a public school in the said Borough for the same period.

The Scholarship is tenable in the Faculty of Arts and the Scholar elected will be required to pursue a course for the degree of B.A. with Honours.

Akroyd Scholarships

These 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.

Women are not eligible for the Ackroyd Scholarships.

Brown Scholarships

These 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.

A preference will be given, *ceteris paribus*, 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.

The Scholarships are tenable in the Faculties of Science or Technology.

Lowson Scholarship

This scholarship was endowed in 1943 by Mr. W. Lowson, a member of the staff of the Chemistry Department since 1902. The scholarship has for its object the encouragement of interest and proficiency in the subject of Analytical Chemistry.

It is awarded annually in June on the recommendation of the Professor of Inorganic Chemistry to a student of Pure Chemistry in the University whose laboratory work in Qualitative and Quantitative Analysis during the Session is considered to be of special merit.

A scholarship or scholarships to the value of approximately £60 will be awarded, tenable for one session in the first instance with the possibility of renewal.

Craven Scholarship

This 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.

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.

The Scholarship is tenable in the Faculty of Technology.

Salt Scholarship

This Scholarship was founded by the late Sir Titus Salt, Bart. in 1875.

Candidates must be scholars or registered students of the University in at least their sixth term.

The value of the Scholarship is £20 a year and it is tenable for two years.

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 post-graduate study satisfactory to the Senate.

Medical Scholarship

This Scholarship was instituted by the Leeds School of Medicine in 1888. It now consists of a free ticket to the lectures and laboratory courses in the Faculty of Medicine of the University (approximate value £130).

This Scholarship is tenable in the Faculty of Medicine and is awarded, after a report from the examiners, on the results of the *First* M.B., Ch.B. examination of the University of Leeds.

Infirmary Scholarship

This Scholarship was founded in 1888 by the Faculty of the Leeds General Infirmary. It is of the value of £75 and consists of a free ticket to the clinical teaching of the Leeds Infirmary.

This Scholarship is now awarded, after a report from the examiners, on the results of the *Second* M.B., Ch.B. examination of the University of Leeds.

Stephenson Clarke Scholarship

(Tenable in the Departments of Textile Industries and of Colour Chemistry and Dyeing.

1. The Scholarship was founded in 1926 by Colonel Stephenson Robert Clarke, C.B., LL.D., Master, 1924-25, 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 per annum.

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 Textile Industries Department and in the following year to a student in the Colour Chemistry and Dyeing Department and will continue to be thus alternately awarded.

The object of the Scholarship is to enable the successful candidate to undertake a 3rd or 4th year course of study in one of these Departments, and candidates must be completing respectively their 2nd or 3rd year attendance in either the Textile Industries or the Colour

Chemistry and Dyeing Department. A preference will be given to students completing a 3rd year and desiring to enter for a 4th 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 of Leeds 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 of Leeds, 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.

Alfred Lund Scholarship

1. This 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.

6. Scholars are required to furnish reports of the work done by them during the tenure of the Scholarship, such reports to be forwarded to the Registrar before *1st June* of the year following the award of the Scholarship, in order that they may be laid before the Senate.

Clothworkers' Scholarships

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 the Department of Textile Industries.

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 must be sent to the Registrar not later than 30th June.

GRADUATE SCHOLARSHIPS

In Arts, Science, Technology or Medicine

Frank Parkinson Fund

Conditions of award of Scholarships under this Fund are set out in previous pages.

University Scholarships

A limited number of University Scholarships and grants for research 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 and in the award of grants 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 this University.

Loans to Graduates.

The University has instituted a Loan Fund to enable graduates to prepare for careers other than teaching. Applications for loans from this fund should be made *not later than 1st May*.

West Riding Research Grants

A sum of £500 has been earmarked by the West Riding Education Committee for the purpose of awarding Research Grants to West Riding students, on the recommendation of the University Authorities.

The recommendations are decided upon by the Senate on the results of Degree Examinations.

Frank Gott Scholarship

This 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.

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 Great

Britain who shall desire to commence or shall have commenced some form of post-graduate study at the University of Leeds.

Women are not eligible for the Frank Gott Scholarship.

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.

The annual value of the scholarship is approximately £80.

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.

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 1st 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.

IN THE FACULTY OF ARTS

John Rutson Scholarship

This 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 amongst those who have shown promise of ability to conduct such research.

The Scholarship is of the annual value of about £70 and is tenable for one year, but may be renewed for one year more.

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.

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 in to the Registrar before June 1st of the year following the award of the Scholarship in order that it may be laid before the Senate.

Bodington Memorial Fund

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.

The scheme for the administration of the Fund includes the following provisions:—

An award or awards will be made annually by the University whenever there are competent applicants.

The income will be allowed to accumulate when no awards are made, the accumulations to be treated as current year's income.

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.

The annual income available for award is approximately £45.

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.

Lady Elizabeth Hastings Senior Scholarship

The authorities of Queen's College, Oxford, have instituted a Lady Elizabeth Hastings Senior Scholarship, tenable

at that College, by graduates from the Leeds and Sheffield Universities, under the following conditions:—

1. This Scholarship shall be called the Lady Elizabeth Hastings Senior Scholarship, to be awarded with a view to a course of higher Humanistic study at the Queen's College in the University of Oxford, and shall be of the annual value of £125.

2. The Scholar shall be elected by the College, after or without examination, as they shall determine.

3. The Scholarship shall be confined to British-born students, being sons of British-born parents, of the University of Leeds or of Sheffield, who have passed with Honours all the examinations requisite for the degree of Bachelor of Arts in the University to which they belong and also have completed the third and not exceeded the fifth year from their admission to the University.

4. The Scholar shall be elected in the month of July and begin residence in the Michaelmas Term next succeeding, and the scholarship shall be tenable during residence for one year, at the end of which period the College may re-elect him for a further period of one year, provided that they are satisfied with his industry and progress, and at the end of this second period the Scholarship shall determine.

5. The Vice-Chancellor of Leeds or the Vice-Chancellor of Sheffield in his turn may, upon the occasion of a vacancy, recommend in writing to the Provost one or more candidates for election.

6. The College will proceed to the election of a scholar, provided that, in their opinion, a suitably qualified candidate presents himself.

7. The Scholar shall reside within the University during the three academic terms of each year and within the College for at least his first year.

8. The Scholar must be unmarried and will *ipso facto* vacate the scholarship on marriage, or upon his being elected to a Fellowship or other office of emolument, or if he ceases to be a member of the College.

Walters Scholarship

1. The Walters Scholarship was established by an anonymous donor in 1949 to enable a suitably qualified graduate of the University to pursue some course of study likely to promote the "art of living."

2. The Scholarship, which is of the value of £250 (in exceptional cases the value may be increased) will be awarded to a selected student who, in the course of taking his first degree in this University, has shown

(i) a lively interest in questions which bear upon the problems of contemporary life, moral, cultural and philosophical, and

(ii) marked ability for the pursuit of further study and enquiry within this field.

3. A student whose sole or principal interest is in theological enquiry or in the promulgation of any religious creed will not be eligible for the scholarship.

4. The Scholarship, which will normally be available only for a male student, will be awarded for one year in the first instance, but may be renewed for a second year.

5. The holder of the Scholarship will enter upon a course of planned study to be approved by the Vice-Chancellor at the time of the award. It is not obligatory for him to become a candidate for a higher degree or to study at a University.

6. The award will be made by a Committee consisting of the Vice-Chancellor, the Professors of Philosophy, Social Studies, English Literature and Music, together with the Chairman of the Scholarships Committee, after consultation with the candidates' teachers and such other persons as the Committee may wish.

7. Applications should reach the Registrar not later than 1st June.

Harold Tetley Post-Graduate Studentship in the History of Art in Yorkshire

This studentship, designed for the promotion of the study of the History of Art in Yorkshire, was founded by Colonel C. H. Tetley (Pro-Chancellor of the University) in 1938, and will be available for ten years.

It is of the value of £200 per annum 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.

The successful candidate shall work under conditions approved by the Senate. He would 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.

IN THE FACULTY OF ECONOMICS AND COMMERCE

Dean Scholarship

1. In 1948 Mr. W. H. Dean presented to the University the sum of £2,000 a year for seven years for the purpose of promoting research in the history and economics of the wool textile industry. Part of this sum will be available each year for the award of one or more scholarships for research in the fields indicated.

2. The Scholarships will be of an annual value of £300 and will ordinarily be tenable for two years.

3. Scholars will be required to devote their whole time to approved research under the direction of the Head of the Department of Economics and Commerce.

4. The Scholarships will be open to suitably qualified graduates of any University but, other things being equal, preference will be given to graduates of the University of Leeds.

5. Applications, which must be submitted through the Head of the Department of Economics and Commerce, should reach the Registrar not later than 23rd June of each year.

IN THE FACULTIES OF SCIENCE OR TECHNOLOGY

Brotherton Research Scholarship

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.

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 in 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.

The Scholarship will be awarded by a Committee, to be known as the Brotherton Research Scholarship Committee, consisting of the Lord Mayor of Leeds, the Vice-Chancellor and two other representatives of the University of Leeds, the Chairman and Vice-Chairman of the Leeds Education Committee, the Director of Education for Leeds and Mr. C. F. R. Brotherton.

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.

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.

The emoluments of the Scholarship will be payable in instalments at the beginning of each University term.

In exceptional circumstances the tenure of the Scholarship may be extended to a second year.

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.

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.

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.

Applications may be sent, not later than the 31st May in any year, to the Registrar of the University of Leeds or to the Director of Education, Education Department, Calverley Street, Leeds.

1851 Exhibition Industrial Bursary

The Commissioners for the Exhibition of 1851 have established a scheme of Industrial Bursaries for young men who, after a course of training in a University or approved Technical College, desire to take up Engineering, Chemical or other industrial work. The Bursaries are intended, not to facilitate the continuance of collegiate studies by means of post graduate work, but to enable suitable applicants to tide over the period between their leaving College and obtaining remunerative employment in industry. The value of the Bursary will depend on the circumstances of the candidate, but will as a rule not exceed £150 a year.

A Bursar will be elected in the first instance for one year, but the tenure of his Bursary will ordinarily be prolonged for a second year provided that the Commissioners are satisfied with the work done by the Bursar during his first year. In special circumstances a Bursary may be renewed for a third year. The appointments to the Bursaries will be made by the Commissioners from among candidates recommended by the Authorities of certain selected Universities and Technical Schools.

N.B.—In the consideration of these recommendations great weight will be given to evidence that a candidate has the practical ability likely to lead to his advancement in industrial work ; academic success alone is not a sufficient recommendation.

The candidate must be a British subject, under the age of 25, and must have been a *bona fide* student of Science for a term of three years. He must further satisfy the Commissioners :—

- (a) That he has obtained, or can, within a short period, obtain an industrial post to be approved by them.
- (b) That he is in need of pecuniary assistance to enable him to hold such a post.

A Bursar may, if the Commissioners approve, spend part of the tenure of his Bursary in studying a special industrial process or processes in works either at home or abroad. No Bursar shall enter a firm as a premium pupil without the special consent of the Commissioners. A Bursar must submit to the Commissioners, on the expiration of each year of his Bursary, a satisfactory report of his work from his employers.

The Arthur Smithells Scholarship

This 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 Emeritus Professor Smithells, Professor of Chemistry 1885-1924. Its object is the elucidation by scientific research, in any Department of the University, of the phenomena of combustion in the widest sense.

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 close of the third term.

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.

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 June 1st.

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 post-graduate 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 the 1st June of 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 1st June each year.

Lowson Scholarship

This scholarship was endowed in 1943 by Mr. W. Lowson, a member of the staff of the Chemistry Department since 1902. The scholarship has for its object the encouragement of interest and proficiency in the subject of Analytical Chemistry.

It is awarded annually on the recommendation of the Head of the Department of Inorganic Chemistry to a Graduate of this or another University to enable him to carry out research on some analytical problem in the Inorganic Chemistry Department of this University.

The scholarship of the value of approximately £60 is tenable for one session in the first instance with the possibility of renewal.

The Richard Reynolds Scholarship

This 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 1859-1864. 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.

The Scholarship, of the annual value of approximately £100, is tenable for one year and may be renewed for a second or third year.

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.

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 in to the Registrar before June 1st.

The appointment will be made at the close of the third term.

IN THE FACULTY OF TECHNOLOGY

Yorkshire Copper Works Research Scholarship

1. This Scholarship was instituted in 1946 by the Yorkshire Copper Works Limited and is of the value of £300 a year.

2. The Scholarship is open to graduates and to suitably qualified non-graduates.

3. A Scholar will be required to undertake research in one of the Departments within the Faculty of Science or the Faculty of Technology; other things being equal preference will be given to a candidate proposing to carry out work in the subject of non-ferrous Metallurgy.

4. The Senate may, at its discretion, divide the money value of the Scholarship in such proportions as may be deemed appropriate between two or exceptionally more than two Scholars; and if in any year no award is made the money may be used for making awards in a subsequent year.

5. Awards will be made for one year in the first place but will be renewable for a second year.

6. Applications must be submitted to the Registrar not later than 1st May.

Smith—K.L.G. Research Scholarship

1. Messrs. K.L.G. Sparking Plugs, Limited, in association with Messrs. Smith (Motor Accessories) Limited have made available for a period of three years in the first instance a Scholarship for research work on ceramic materials, particularly refractory oxides.

2. The Scholarship, of the value of £350 per annum, will be awarded by the Senate on the recommendation of the Livesey Professor of Coal Gas and Fuel Industries, after consultation with the donors. Selected candidates will be required to attend at the University for interview.

3. Normally the Scholarship will be awarded to a graduate of any approved University who has a good Honours Degree in Fuel, Chemical Engineering, Chemistry, Physics or any other subject related to Ceramic Technology, but in exceptional circumstances the Senate may make the award to a candidate with other suitable qualifications whether those of a graduate or of a non-graduate. Preference will be given to candidates who intend eventually to enter the Ceramic Industries.

4. In general, the Scholarship will be tenable for two years, but the Senate may, on the recommendation of the Professor, extend the tenure of the award.

5. The holder of the Scholarship will be required to spend his whole time in study and research work normally within the University. The work will be concerned with ceramic materials of special interest to the engineering and electrical industries, and will be chosen and directed by the Professor after consultation with the donors.

6. A report on the progress of the work shall be made to the Senate on or before the 1st June in each year, and a final report when the tenure of the Scholarship is ended.

N.B.—Anyone wishing to be considered for this Scholarship in session 1950-51 must communicate with the Registrar before submitting any application.

Cement and Concrete Association Scholarship

1. The Cement and Concrete Association have instituted Research Scholarships tenable for one or two years.

2. The Scholarships will be awarded by the Senate to graduates of this University in Engineering and to suitably qualified graduates of other universities to enable them to undertake advanced study and research in the University Laboratories for Civil Engineering.

3. Holders of the Scholarships will be required to devote the whole of their time to research except with the express permission of the Head of the Department.

**Clothworkers' Research Scholarship in Colour Chemistry
and Dyeing**

This Scholarship, of the value of £180 a year together with tuition fees and tenable in the Department of Colour Chemistry and Dyeing, will be awarded annually upon the results of the Final examination for the B.Sc. degree, preference being given to candidates who graduate with Honours in Applied Chemistry (Colour Chemistry and Dyeing).

The Scholarship will be awarded for one year, but may, at the discretion of the Examiners, be extended to a second year.

The Scholar will be required to devote his whole time to carrying out some special branch of research in Colour Chemistry or Dyeing.

**Clothworkers' Research Fellowships and Scholarships
in Textile Industries**

These Scholarships and Fellowships were instituted in 1928 from funds provided by the Worshipful Company of Clothworkers.

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.

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.

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.

Both Scholarships and Fellowships are tenable for one year and may be renewed for one or more years.

The number of each to be awarded in any year will depend upon the funds available and on the number of suitable applicants.

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 June 1st in each year.

The appointments will be made at the close of the third term.

International Wool Secretariat Scholarships

These 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.

1. 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.

2. 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.

3. 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 the 1st June in each year.

4. The appointment will be made by the Senate, on the recommendation of a Committee appointed for the purpose, at the close of the third term. Applications should be in the hands of the Registrar not later than the 1st May of each year.

Sandoz Research Scholarship

1. This Scholarship has been established by Sandoz Products Limited 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 Leeds University 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 Ph.D.

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 1st May each year.

**Clothworkers' Research Fellowships and Scholarships
in Colour Chemistry**

These Scholarships and Fellowships were instituted in 1928 from funds provided by the Worshipful Company of Clothworkers.

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.

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.

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.

Both Scholarships and Fellowships are tenable for one year and may be renewed for one or more years.

The number of each to be awarded in any year will depend upon the funds available and on the number of suitable applicants.

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 in to the Registrar not later than 1st June in each year.

The appointments will be made at the close of the third term.

The Hickson and Welch Research Scholarship

1. This 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 B.Sc. ; 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 work 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 31st May in each year.

IN THE FACULTY OF MEDICINE

Lady Moynihan Scholarship

This 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.

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.

Candidates must be graduates of this University or qualified medical men or women who have been students of the University for not less three years.

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.

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.

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 1st May in each year.

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 (not 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

- (a) Holders of an appointment of Demonstrator in the School of Medicine, University of Leeds ;
- or (b) Holders of an appointment of Registrar in one of the Teaching Hospitals associated with the University ;

or (c) 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 professional 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 1st May.

The Freeman Fund

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.

The annual income of the bequest will be utilised 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 1st September.

FELLOWSHIPS**Frank Parkinson Fund**

Conditions of award of Fellowships under this Fund are set out in previous pages.

University Fellowships

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.

Fellowships will not be awarded except 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 June 1st 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 Council, be renewed for a second year.

Kemsley Travelling Fellowship

1. The Kemsley Travelling Fellowship was established in 1946 by the Right Honourable the Viscount Kemsley of Dropmore to enable a graduate of the University of Leeds to obtain first-hand knowledge of peoples overseas.

2. The award, which will be of the value of £400, will be made for one year and will not be renewable; other things being equal, preference will be given to a woman graduate who is a native of Yorkshire.

3. Candidates who must be graduates of the University of not less than one year's standing will be required to submit to the Senate their proposals to pursue study or research at an approved institution overseas during their tenure of the Fellowship. It is also intended that the Fellow shall study the ways of life and thought in the country or countries visited.

4. Applications giving full details of the travel and study proposed should be sent to the Registrar not later than 28th February.

Henry Ellison Fellowships

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.

The Fellowships are of two kinds:—

(a) Junior Fellowships (restricted to graduates of the University of Leeds) of an annual value of £150 (normally tenable for two years) intended to enable promising graduates to gain a training in scientific research.

(b) Senior Fellowships of an annual value of £300 (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.

Imperial Chemical Industries Limited Research Fellowships

1. Eight Fellowships have been instituted by Imperial Chemical Industries Ltd. for research in Bacteriology, Biochemistry, Biomolecular Structure, Botany (Plant Biochemistry), Chemical Engineering, Chemistry, Chemistry of Leather Manufacture, Chemotherapy, Colour Chemistry and Dyeing, Engineering (Civil, Electrical or Mechanical), Fuel and Refractories, Geology (including Geochemistry), Metallurgy, Mining (Selective Flotation and Geophysical Surveying), Pharmacology, Physics, Physiology, Textiles (Protein Chemistry).

2. Appointments to these Fellowships will take effect on 1st October, but permission to defer tenure can be granted to persons on national service. The normal tenure of a Fellowship will be for three years and may be renewed for one or more years. The question of renewing a Fellowship will normally be considered towards the end of the second year of tenure.

3. The normal value of each Fellowship will be £600 per annum but the University at its discretion may fix a different stipend. The stipend of a particular candidate will depend on his qualifications. In appropriate cases Fellows will be admitted to the Federated Superannuation Scheme for Universities, and any necessary adjustments in their stipends will be made.

4. The Fellowships are open to men and women.

5. A Fellow will be required to undertake a limited amount of teaching.

Turner and Newall Research Fellowship

1. Messrs. Turner & Newall have instituted a Fellowship to be awarded for research in Engineering, Inorganic Chemistry or Physics or other allied science.

2. An appointment to the Fellowship will take effect on 1st October, but permission to defer tenure can be granted to a candidate on national service. The normal tenure of the Fellowship will be for three years and may be renewed for one or more years. The question of renewing the Fellowship will normally be considered towards the end of the second year of tenure.

3. The normal value of the Fellowship will be £600 per annum but the University at its discretion may fix a different stipend. The stipend of a particular candidate will depend on his qualifications. In appropriate cases the Fellow will be admitted to the Federated Superannuation Scheme for Universities, and any necessary adjustments in stipend will be made.

4. The Fellowship is open to men and women.

5. The Fellow will be required to undertake a limited amount of teaching.

Gas Research Fellowship

The Fellowship, of the value of £325 per annum provided by the Institution of Gas Engineers, will be awarded by the Senate, on the recommendation of the Board of Science and Technology, to a duly qualified candidate for the prosecution of post-graduate research in gas chemistry. Preference will be given to candidates who have signified their intention of entering the coal gas industry, or in default of any such candidate, to a person qualifying for some other branch of fuel industry.

The award of the Fellowship will be made annually during the month of June, after due advertisement of it in the technical press and other appropriate journals.

It will always be within the power of the Senate, on the recommendation of the Board of Science and Technology, to renew the Fellowship to the holder of the same for a further period of a year, instead of proceeding to a fresh election.

The holder of the Fellowship shall undertake research work 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.

The University will provide, free of charge, all reasonable accommodation and 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 Fuel and Metallurgical Department. Any *special* expenses, not exceeding £25, incurred during the prosecution of the research will be defrayed by the Institution of Gas Engineers.

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 May 1st of each year, together with copies of any papers published in connection with the research.

British Coke Research Fellowship

This 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 post-graduate standard on a subject connected with the coke industry. Preference will be given to persons desirous of entering the Coke Oven Industry, or in the absence of such, to those intending to engage in some other branch of the Fuel Industry.

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.

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.

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.

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.

All facilities for research provided within the Department of Coal Gas and Fuel Industries 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.

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 the 1st June of each year together with copies of any papers which may be published in connection with the research.

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.

The Fellowship will be awarded annually during June or July after due advertisement has been made in appropriate journals. Application for the Fellowship must be addressed to the Registrar and should reach him on or before June 1st each year.

Textile Chemistry Research Fellowship

This Fellowship has been given 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.

The value of the Fellowship is £200 per annum 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.

Applications for the Fellowship should be made to the Registrar on or before June 1st.

Ackroyd Memorial Fellowship

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.

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.

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.

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 Science and Technology, bearing upon the production of wool, silk or other textile materials, or the manufacture of textile fabrics.

A Committee shall be appointed by the Board of Science and Technology to exercise a general supervision over the conduct of the research.

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. Preference will be given (*ceteris paribus*) 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.

The award of the Fellowship will be made ordinarily in the month of June. *Applications for the Fellowship should be made to the Registrar of the University on or before 1st May.*

Grants out of the surplus moneys of the Fund may be made by the Senate on the recommendation of the Board of the Faculty of Science and Technology to increase the value of the Fellowship in any year, or to provide additional facilities for the prosecution of the research by the Fellow.

Provisional reports of the research work 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 connexion with the research.

Bradford Dyers' Association Fellowships in Dyeing and in Textile Finishing

1. Applications are invited for two Research Fellowships, each of the value of £600 per annum, which 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. (a) These 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.

(b) 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.

3. The Fellowships will be available for two years in the first instance, but may be renewed for a further period.

4. 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.

5. The Fellowships are open equally to men and women.

6. Applications, including copies of testimonials and reprints of any published papers, together with the names of two referees, should be sent to the Registrar.

Procter Memorial Fellowship

The Procter Memorial Fellowship was established by the International Society of Leather Trades' Chemists to commemorate the services of the late Emeritus Professor Henry Richardson Procter to the science of leather manufacture, the endowment fund being subscribed by members of the Society and of the leather and allied trades.

The value of the Fellowship is approximately £140 per annum.

The award of the Fellowship is made annually by the Senate of Leeds University in June on the recommendation of the Procter Fellowship Committee after due advertisement in the Journal of the Society. 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.

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.

The University undertakes to provide free of charge all reasonable accommodation and apparatus for the prosecution of research which shall be carried out under the direction of the Professor of Leather Industries. If no election to the Fellowship be made in any year the income for that year shall be added to the capital fund.

The Fellow will be required to devote the whole of his time to research on a subject pertaining to the leather or allied industries.

The results of his work must be presented as a report to the Senate and to the Procter Fellowship Committee.

Applications should be in the hands of the Registrar of the University not later than 1st April in each year.

Boltonia Fellowship

1. Messrs. Bolton Leathers, Limited, Bolton, Lancs., have made available, for a period of three years in the first instance, a Fellowship to enable a suitably qualified graduate of Leeds or any other University within the British Commonwealth or the United States of America to undertake research in the Department of Leather Industries.

2. The value of the Fellowship will be from £450 to £600 per annum according to the qualifications and experience of the holder.

3. The period of tenure of the Fellowship shall be three years.

4. The Fellow will be required to devote his whole time to research in a subject of interest to the Light Leather Industry selected by the Head of the Department of Leather Industries, in consultation with the donors of the Fellowship.

5. Interim reports on the research work conducted by the Fellow shall be made annually to the Senate and a final report on the expiration of the tenure of the Fellowship.

6. The Fellowship will be awarded by the Senate on the recommendation of a special Committee; selected candidates will be required to attend at the University for interview.

Sir Swire Smith Fellowship

This Fellowship commemorates the services rendered to national education by the late Sir Swire Smith, Hon. LL.D., Member of the Court of the University of Leeds, M.P. for Keighley, and a member of the Royal Commission on Educational Instruction, 1881-4.

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.

The Fellowship is awarded to a graduate of any Faculty of the University who has given evidence of qualifications or undertaking advanced work.

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.

The annual value of the Fellowship is not less than £150.

The award of the Fellowship is made ordinarily in the month of June. Applications must reach the Registrar of the University on or before the 1st of 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.

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 in to the Registrar before 1st 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.

Charles Edwyn Vaughan Fellowship

The late Emeritus Professor Charles Edwyn Vaughan bequeathed to the University a sum of £3,500 for investment for the purpose of founding a post-graduate Research Fellowship.

The annual value of the Fellowship will be not less than £150. The Fellowship is awarded to such graduate in the Department of English, or History, or Economics, as shall be judged the most fit and proper to receive it, and to be capable of undertaking special research work in English, or History, or Economics.

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.

The award of the Fellowship is made ordinarily in the month of June. Applications should reach the Registrar

of the University on or before the 1st of 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.

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 in to the Registrar before June 1st of the year following the award of the Fellowship. At the expiration of the full period of tenure a final report shall be submitted by the candidate to the Senate.

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 and History and Economics.

Cancer Research Fellowships

These Fellowships, four in number, have been given through the Yorkshire Council of the British Empire Cancer Campaign by the late Sir William H. Aykroyd, Bart., Lord Brotherton of Wakefield, Capt. W. Riley Smith, Mr. Bertram Parkinson, and Mr. Henry Oxley, respectively for the prosecution of cancer research within the University. They will be awarded to duly qualified candidates by the Senate on the recommendation of the Board of the Faculty of Medicine after consultation with the Cancer Research Advisory Committee of the University of Leeds. They will be tenable for 1, 2, or 3 years, and may be renewed thereafter for such periods as the Senate may determine. The annual value of each Fellowship shall not exceed £500.

The holders of the Fellowships shall work under the direction of the Professor of Experimental Pathology (Director of Cancer Research) at such problems in the field of cancer research as he shall determine.

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.

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 in 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 in 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.

Appointment to vacant Fellowships may be made at any time; renewal will be made in January or June. Vacancies will be announced as they occur and applications should be lodged with the Registrar.

Thorp Fellowship—Forensic Medicine and Public Health

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.

Candidates must be graduates of this University or qualified medical or women who have been students of the University for not less than three years.

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.

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.

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 1st May in each year.

Centenary and Hardwick Fellowship

This 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.

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.

Candidates must be medically qualified and must have been students of this University for not less than three years.

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.

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.

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 1st May in each year.

PRIZES

Gladstone Memorial Prize

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 £10 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 :

1. The prize will be awarded in June of each year for an Essay on some subject connected with History or Political Science or Economics, and the subjects of the Essays will be announced in the preceding June.
2. 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 B.A. with Honours upon subjects connected with History, or Political Science or Economics will be regarded as competing for the Essay.
3. No student who has once obtained the prize may compete a second time.
4. 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.
5. The Essay must be sent in to the Registrar *not later than 1st May* in each year.

The Connal Prize

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 connexion with the Departments of Latin and Greek. A Prize of approximately £4 10s. will accordingly be awarded under the following conditions :—

1. 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 Honours Schools :—
Classics.
Latin.
Greek.
2. 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 Honours School of Latin, and, failing such a candidate, to the most deserving student with First Class Honours in the Honours School of Greek.
3. If in any year no candidate is placed in the First Class in any of the above-mentioned Honours Schools no award will be made, and the unexpended sum, together with any accumulated surpluses of dividends, shall form a fund to be utilised by the Senate to give financial assistance to deserving students in any of these three Honours Schools.

Edwards Prize

1. The Edwards Prize was established in 1951 to commemorate 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 under paragraph 2 above be recommended for the Connal Prize, the candidate next in order of merit in Greek will be eligible for the award of the Edwards Prize.

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 Ripon English Literature Prize

The Committee formed to obtain for the University, by subscriptions, a portrait of the late Chancellor, the Marquis 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."

A Prize to the value of £7 will accordingly be awarded annually, under the following conditions.

1. The prize will be awarded in June of each year for an Essay on some subject connected with English Literature, and the subjects of the Essays will be announced in the preceding June.
2. 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 B.A. with Honours upon subjects connected with English Literature will be regarded as competing for the Essay.
3. No student who has once obtained the prize may compete a second time.
4. 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.
5. The Essay must be sent in to the Registrar *not later than 1st May* in each year.

Subjects for session 1952-53 :

An Essay may be submitted on one of the following subjects :

1. "Ethics is behaving as you have been brought up to behave".
2. "A good God is the noblest work of man".
3. "Le style c'est l'homme même".
4. The Spenser tercentenary falls this year (1952). Would you expect his reputation to rise or fall?
5. The merits and demerits of Graham Greene as a novelist.

The Lucy Whitmell Prize

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 accordingly be awarded annually, under the following conditions:

1. The prize will be awarded in June of each year for an Essay on some subject in Italian connected with the life, works and times of Dante, choice of a subject being left to the individual candidate.
2. It will be open to competition among all students of the University, including students in attendance on extramural courses under the supervision of the University.
3. No student who has once obtained the prize may compete a second time.
4. 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.
5. The Essay must be sent in to the Registrar *not later than 1st May* in each year.

The David Forsyth Prize

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 accordingly be awarded annually under the following conditions:—

1. All students (men and women) who have completed an Honours course in Arts and Science with the intention of becoming teachers in High or Secondary Schools are eligible.
2. Preference will be given to those candidates who have taken their preliminary education in Leeds High or Secondary Schools.
3. The prize will be awarded by the Senate in June of each year on the results of the examination for the Diploma in Education.

The Dorothy Wharton Memorial Prize

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 this 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—

- (i) *Either* Part I. *or* Part II. of the Final Examination in the Honours School of Geography ;
- or* (ii) The Final Examination in Geography as a subject for B.Sc. General Honours ;
- or* (iii) The Final Examination in Geography as a principal subject for the Ordinary degree of B.A. or B.Sc.

The Prize will not be awarded unless a sufficient standard of merit has been attained.

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.

Gerald Veale Prize

1. The Gerald Veale Prize was established in 1951 as a memorial to Gerald Cater Veale, LL.D., F.C.A., Pro-Chancellor of the University 1946-49, Chairman of the Finance Committee 1940-46 and for 23 years a member of the Council of the University.

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 B.Com.

3. All candidates for the degree of B.Com. 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 articulated to a Chartered

* The exact value will be determined later.

Accountant ; failing such a candidate, preference will be given to any other articulated 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.

Brodetsky Prize

1. Professor 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

This 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, 1891-1904, and Professor, 1904-1925.

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 Ph.D. or M.Sc. whose thesis or dissertation shall have been adjudged to contain the most valuable contribution to knowledge in the subject of Chemistry.

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.

The value of the Prize is approximately £8.

The Whytlaw-Gray Prize

Emeritus Professor R. W. Whytlaw-Gray, F.R.S. on his retirement from the Chair of Inorganic Chemistry presented to the University the sum of £162 for the endowment of a prize of the value, approximately, of £4.

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 Honours School of Chemistry.

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 Foyle Prize

This prize, which was instituted in 1927 by Messrs. W. G. Foyle, Booksellers, London, is awarded every alternate year and is of the value of £10, which must be expended in books. The conditions of award are as follows :—

1. The prize will be awarded in December for an Essay on some subject connected with the Scientific Method and the general Development of Science, and the subjects of the Essays will be announced in the preceding June.
2. It is open to competition among all undergraduate students of Day Classes in the Science Faculty of the University who are in attendance upon University lectures for not less than four hours per week.
3. 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 in to the Registrar *not later than 1st December.*

Imperial Chemical Industries Ltd., Prizes in Mining

Two prizes are awarded annually by Imperial Chemical Industries Ltd., to students of the Mining Department under the following conditions:—

- (1) The annual sum of £7 10s., shall be allotted annually at the discretion of the Head of the Mining Department.
- (2) The sum shall be allotted as follows:—
£5 to the student who does best in the Final Mining Examination.
£2 10s., to the student who does best in Surveying, including Field Work, Drawing Office and Theory.
- (3) No student shall be awarded both prizes at any time.
- (4) No student shall be eligible unless he has had at least six months' practical experience in a mine.

British Ropes Ltd. Mining Prize

British Ropes Limited presented the sum of £10 annually to the Mining Department for the award of a prize each year under the following conditions:—

1. The prize will ordinarily be awarded, on the recommendation of the Head of the Mining Department, to the most successful candidate in the Final Examination for the Degree of B.Sc. in Mining (Honours or Ordinary) but may, in special circumstances, be divided between two candidates.
2. The prize will take the form, wholly or in part, of books and/or instruments.

The Barker Prize Fund

This prize was instituted in 1936. On his retirement 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—

the first for the best thesis presented by a Diploma student in the Department of Textiles, and the second for the student placed first in the final B.Sc. (Textiles) Examination. The prizes will be awarded under the following conditions :—

1. Two prizes will ordinarily be awarded in each year, one to the student presenting the best thesis for a Diploma in the Department of Textiles and the other to the student placed first in the Final B.Sc. (Textiles) Examination.
2. Either or both of the prizes may be withheld if there are no candidates of sufficient merit in any year.
3. The prizes shall be of equal value and 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 £5.
4. Any income not expended in any year shall be added to the capital of the fund.

The fund may be added to from time to time from donations received by the University for the Department of Textiles. 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 Seton Prize Fund

1. The Local Royal Show Committee under the Chairmanship of Sir Harold Mackintosh, appointed to raise and administer the local fund in connection with the Annual Show of the Royal Agricultural Society held at Harrogate in 1929, decided, on winding up the fund, 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, and when the Council in 1933 added their joint gift of £100 to it, it resolved to

name the fund "The Seton Prize Fund." The interest is used for prizes for students in the Department of Agriculture.

2. The Prize will ordinarily be awarded in each year to a student completing the B.Sc. degree course in agricultural subjects. The award will be based on the results of the Final Degree Examinations, but previous examinations and the class record of the student will also be taken into consideration.

3. In special circumstances the University may award two prizes, and in the event of there being no candidate of sufficient merit in any year, the 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 a 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.

British Oil and Cake Mills Prize

The British Oil and Cake Mills Limited have established a prize with the object of promoting interest in animal husbandry. The conditions of award are as follows :

1. 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 management of cattle, or sheep, or pigs or poultry.
2. 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.
3. 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.

4. The Senate reserves the right to withhold the prize in any year, if no essay of sufficient merit has been submitted.
5. The essay must be sent to the Registrar not later than 1st May each year.

Yorkshire Union of Institutes Prize Fund

A Prize of the approximate value of £4 will be awarded each year from a Fund provided by the Yorkshire Union of Institutes. The Prize will be associated in alternate years with the names of Jabez Woolley and James Hole. The Prize will be awarded by the Senate on the recommendation of the Professor of Engineering in June of each year to the most meritorious student placed in the First Class in one of the following Honours Schools :

Civil Engineering.
Mechanical Engineering.
Electrical Engineering.

Heseldin Prize in Civil Engineering

1. The Heseldin Prize was instituted in 1945 by George Heseldin, M.Sc., a graduate 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 shall 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 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 of each year and the award made in the following June.

3. All students in the Department of Leather Industries who are in the final year of the course for the Degree of B.Sc. or for the Diploma, in Leather Manufacture, are eligible to compete.

4. The award will be made by the Senate on a recommendation of the Head of the Department of Leather Industries made after consultation with the Managing Director of Messrs. W. L. Ingle & Sons Ltd.

5. If in any year no essay is deemed worthy of recommendation the income for that year will become available for the award in a subsequent year.

6. Essays must be submitted to the Head of the Department of Leather Industries not later than 1st May in each year.

Littlewood Prize in Anatomy

The late Colonel Harry Littlewood, formerly Professor of Surgery in the University, bequeathed a legacy of £1,000 to be applied for providing a Prize in the Anatomy Department every year or in alternate years.

This prize will be awarded on the result of the examination in Anatomy for the Second M.B., Ch.B. in March of each year, provided that the candidates have attended the full course of Anatomy in this University, and that students for other qualifications who have attended the full course be permitted to compete for the prize.

Birkett Prize

This prize, of the value of about £3, is awarded annually after a report from the examiners on the results of the 2nd M.B., Ch.B. examination to the candidate who is placed *proxime accessit* to the candidate or candidates awarded the Infirmary Scholarship, always provided that he obtains an honours mark in at least one subject of the examination.

Hardwick Prize in Clinical Medicine

1. This 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 1861-1864.

2. This prize, of the value of £10, is awarded annually on the results of an examination which is normally held in February. 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 Senior Administrative Officer, the Medical School, by January 15th.

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. This prize is awarded annually on the results of an examination which is normally held in February. 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 Senior Administrative Officer, The Medical School, by January 15th.

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. This prize (of the value of approximately £30) will be awarded annually in March 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 Senior Administrative Officer, The Medical School, by January 15th.

Scattergood Prize in Obstetrics and Gynæcology

This prize, instituted in memory of the first Dean of the Medical Department, Yorkshire College, is awarded annually on a competition in Obstetrics and Gynæcology normally held in February. Candidates must submit six case notes (three Gynæcological and three Obstetrical) written up by themselves during their obstetric and gynæcological clerkships. In addition, there will be a clinical and oral examination in Obstetrics and Gynæcology for selected candidates.

The value of the prize, which consists of books or instruments, is £5.

Edward Ward Memorial Prize in Surgical Anatomy

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:—

The Examiners for this 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.

The examinations will be held in September in the week preceding the Final examination, and will consist of: (a) a written paper, (b) *viva voce* examination on the living subject and (c) dissections

Students are eligible irrespective of the qualifications for which they are working, and must be in their final year (normally fifth year) but due allowance will be made for those whose course has been extended by extra courses for the B.Sc., for the Primary Fellowship, or for some other reason satisfactory to the Board.

West Riding Panel Practitioner's Prize

This prize, of the value of £25, is awarded annually on the result (in Medicine only) of the Final M.B., Ch.B. examinations in March and September 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 M.B. or equivalent examination, excluding time occupied in working for a Final B.Sc. or Primary F.R.C.S. examination.

Waddington Prize in Anatomy

This prize was instituted in 1944 by the relations of George and Guy Waddington who had bequeathed their bodies for dissection in the Department of Anatomy. The prize, given annually, 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 shewn most promise in his studies.

S. Thompson Rowling Prize in Anæsthetics

1. This Prize was instituted in 1951 in memory of Dr. S. Thompson Rowling, a graduate of the University, and for nineteen years a Clinical Lecturer in Anaesthetics.

2. The Prize, of the value of £10, will normally be awarded by the Senate in March of each year for an essay on some subject relating to anaesthesia. No award will be made unless a sufficiently high standard is attained.

3. The Prize is open only to students of the University in the sixth year of the medical course who may compete for it by submitting an essay (not exceeding 2,500 words in length) on a subject to be announced at the beginning of the session.

4. The Examiners will be the Reader in Anæsthetics, and the Professors of Pharmacology, Physiology and Surgery together with the Dean of the Faculty of Medicine.

5. The essays should be submitted to the Registrar not later than 31st January.

Percy Leigh Prize in Clinical Dental Surgery

Mr. Percy T. Leigh, L.D.S., R.C.S. (Eng.), L.D.S. (Glasgow), to mark his year of office (1935-36) as the 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.

The award will be made by the Board of the Faculty of Medicine on the recommendation of the Clinical Dental Committee.

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.

Candidates must be students of the University of Leeds who are in the final year of a normal curriculum for a qualification in Dental Surgery (B.Ch.D. or L.D.S.), and no candidate may compete more than once for the Prize.

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 has 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.

William Hey Medal

The late Lord Moynihan presented to the University the sum of £200 for investment, with a view of providing a gold medal for the most distinguished graduate with first-class Honours in the M.B., Ch.B. list of the Calendar year.

The award will be made by the Examination Committee in September on—

- (a) The results of the Final M.B. (Part III) examinations held in March and September of the same year. Previous examinations (Second M.B. and Final M.B., Parts I and II) will also be taken into consideration.
- (b) A consideration of the student's general standing, record and character. The successful student must have displayed qualities of such an order as to entitle him to special distinction.

If two candidates show special merit and the funds of the trust allow, the examiners may recommend a double award.

Charles Rippon Medal

Mr. Charles Rippon, Ph.D., L.D.S., on his retirement from the Lecturship 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.

- (1) Candidates for the Medal must be students who are in the final year* of a normal full curriculum for a qualification in Dental Surgery (B.Ch.D. or L.D.S.) and who have pursued the full qualifying course at Leeds University after registration.
- (2) 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 the reports of the tutors in the various clinical departments of the School.
- (3) No student will be allowed to compete for the medal more than once.
- (4) If two candidates show equal distinction two medals may be awarded should there be sufficient funds for the purpose.

Percy Leigh Medal

Mr. Percy T. Leigh, L.D.S., R.C.S., (England), L.D.S. (Glasgow) presented to the University, with a view to the encouragement of the Science and Art of Dental Mechanics, the sum of £105 to provide a Gold Medal to be awarded annually to the most skilled senior pupil of the year in the Dental Mechanics Laboratory of the Dental School.

*In determining the final year due consideration will be given to the case of students who may have combined B.Sc. and M.B., Ch.B. courses with the dental curriculum.

The conditions of award are as follows:—

1. A Gold 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.
2. The award will be made by the Board of the Faculty of Medicine on the nomination of the Clinical Dental Committee.
3. The Medal will be awarded on (a) the result of an examination in Dental Mechanics to be held annually; (b) a consideration of the candidate's general record. A high standard of skill must be shown.
4. No student will be permitted to compete for the Medal more than once.
5. If two candidates are equally deserving of the award, two Gold Medals may be awarded.

N.B.—At the present time it is not possible to provide *Gold Medals*.

Leblanc Medal

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.

Leblanc Medals may be awarded at the Final Examination for the Degree of B.Sc. in the Honours Schools of Colour Chemistry, Leather, 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.

Jamieson Medal 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. Kay Jamieson, Professor of Anatomy, in the University of Leeds from 1910-1936.

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 M.B., Ch.B. examination.

3. In addition the student to whom the medal is awarded will receive a prize of approximately £15.

The Worshipful Skinners' Company Silver Medal

1. The Worshipful Skinners' Company of the City of London, whose generosity made possible the erection in 1899, of the building for the Department of Leather Industries, decided in 1952 to provide annually a silver medal, to be awarded to a student of the Department.

2. The medal will be awarded by the Skinners' Company on the recommendation of the Senate to the student who, in the opinion of the Professor of Leather Industries, has most successfully completed his studies in the Department.

3. A student to whom the medal has been awarded will not be eligible for the award in a subsequent year.

FINANCIAL GRANTS TO STUDENTS**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 1911-1923) presented to the University the surplus fund amounting to £730 for investment to form the nucleus of a fund for assisting necessitous students.

Walter Garstang Fund

1. The late Emeritus Professor Walter 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 post-graduate or Honours students pursuing approved hydro-biological investigations away from Leeds.

3. The awards will be made annually by the Senate on the recommendation of the Head of the Department of Zoology ; the value of an award will not be fixed but will be assessed separately in each case.

4. The annual income from the fund is approximately £18 ; income not spent in any year may be used for making additional awards in a subsequent year.

Baillie Memorial Fund

A fund of £784 raised to commemorate the services to the University of Sir James Baillie, O.B.E. (Vice-Chancellor 1924-1938) has been set aside, at his express wish, for the assistance of necessitous students.

Cobb Memorial Fund

On the retirement of Professor J. W. Cobb, C.B.E. (Livesey Professor of Coal Gas and Fuel Industries 1912-1938) a fund was raised to commemorate his services to the University and to industry. 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 Department of Coal Gas and Fuel Industries with Metallurgy to meet the cost of maintenance while at the University, or to cover other expenditure necessary for their studies or researches.

Grants from the Fund are made by the Senate on the recommendation of the Head of the Department of Coal Gas and Fuel Industries with Metallurgy.

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 of Leeds 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 approved 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.

Wheeler Memorial Award.

1. This Scholarship was founded in 1946 to commemorate the services to the University of Archibald Edward Wheeler, Registrar from 1912 to 1944, and his practical interest in the social work of the City of Leeds.

2. The endowment of £1,000 was provided by contributions from members of the Leeds Luncheon Club, 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 post-graduate 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 post-graduate students.

5. Applications must be sent to the Registrar not later than 1st August.

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 School 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 31st January from those wishing to hold the award in the Easter vacation and not later than 31st May for those wishing to hold the award in the long vacation.

Students' Aid Fund

The Students' Aid Fund was established by the University 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 courses in the University. Advances may be made from this Fund in the form of a loan on a signed undertaking by the student to refund the amount advanced as soon as possible. *The loans are made free of interest for a period of five years after the completion of the student's course in the University and are thereafter subject to interest at the rate of five per cent per annum.*

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 sources 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.

Applications should be addressed to the Registrar, from whom forms for the purpose may be obtained.

Leighton Exhibitions

These Exhibitions were instituted in 1894 by the Trustees of the late Mrs. Isabel Leighton of Leeds.

Candidates must be registered students of the University of not less than two terms standing. They must have attended a Public Elementary school or schools in the City of Leeds for not less than three years.

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.

The Exhibitions will not be awarded on any special examination, but *those students who are desirous of becoming candidates are required to send in their names to the Registrar not later than 1st May in each year.*

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 pecuniary assistance will also be taken into consideration.

The Exhibitions are tenable by day 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.

The election will be made in the third term of the session, provided that there be suitable applicants.

Leeds City Council Fund

This Scholarship was founded by the Council or the University, in 1892, out of the sum voted by the Leeds City Council, and up to 1912 was awarded as 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.

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 pecuniary assistance will also be taken into consideration.

John Goodman Testimonial Fund

The income from the invested capital contributed by old students and friends of Emeritus Professor Goodman will be expended in making grants of Drawing Instruments or Text Books on Engineering. The value of each grant will be approximately £5.

No student is eligible to receive a grant unless he has, prior to entering the University, worked for at least 12 months in an Engineering workshop (not an office) carried on purely for industrial purposes.

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 of the student's first year. Successful candidates will receive their instruments or text books at the beginning of their first long vacation.

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 them being identified as coming from the Fund.

Lord Snowden Endowment Fund

1. This Fund, established with monies subscribed to commemorate the late Right Honourable Philip, Viscount Snowden of Ickornshaw, was given to the University for he teaching of music in the University 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 B.Mus. student of any year, 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 this 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 B.Mus. degree or to those who are taking music for three years in the B.A. (General Studies) course ; 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 31st March in each year.

Maintenance Grants from Senior Scholarship Funds

The Senate may at its discretion utilise 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.

GRADUATES OF THE UNIVERSITY

The following cumulative lists give the names of all living Honorary graduates of the University and of those graduates who were admitted to degrees between January, 1950 and July, 1952, inclusive. Degrees shown against the names of the graduates are those conferred during this period only.

A complete list giving the names of persons, living and deceased, who were admitted to degrees and Honorary degrees before January, 1950, and the degrees conferred upon them before that date will be found in the University Calendar for the session 1951-52.

In 1955, a complete and separate "Register of Graduates" will be published, containing the names and degrees of all graduates and Honorary graduates. Subsequent editions of the register will appear at five-yearly intervals and will be supplemented by cumulative lists similar to the following which will be published annually in the Calendar.

Honorary Graduates

Doctors of Laws

- 1919 John Mews
- 1923 The Rt. Hon. Edward Frederick Lindley Wood
- 1925 H.R.H. Princess Mary Viscountess Lascelles
- 1927 Sir Arthur Keith
Her Grace Katharine Marjory, Duchess of Atholl
- 1928 Ina Kitson Clark
Her Grace Evelyn Emily Mary, Duchess of Devonshire
- 1930 The Rt. Hon. Arthur Greenwood
Walter Hargreaves
Sir Henry Walker
- 1932 Ellen Mary Musson
- 1933 The Rt. Hon. Sir John Allsebrook Simon
Col. Charles Harold Tetley
- 1934 Arthur Henry Mann
- 1935 The Rt. Hon. Walter Elliot
- 1937 The Rt. Hon. Stanley Melbourne Bruce
- 1938 The Hon. Rupert Evelyn Beckett
- 1939 John Whelan Dulanty
The Rt. Hon. William Shepherd Morrison
Dorothy Evelyn Augusta, Viscountess Halifax

- 1944 Jessie Beatrice Kitson
Percy Henry Winfield
- 1945 The Rt. Hon. Robert Anthony Eden
Elinor Gertrude Lupton
- 1946 The Rt. Hon. Sir John Anderson
The Rt. Hon. Herbert Vere Evatt
The Rt. Hon. Frederick James Leathers, 1st Baron
Leathers of Purfleet
General Sir Frederick Alfred Pile, 2nd Bart.
General Sir William Joseph Slim
The Rt. Hon. Arthur William Tedder, 1st Baron Tedder
of Glenguin, Marshal of the Royal Air Force
- 1947 The Rt. Hon. Andrew Browne Cunningham, 1st Viscount
Cunningham of Hyndhope, Admiral of the Fleet
Lt.-General Sir William George Shedden Dobbie
Lt.-Col. Sir John Alexander Dunnington-Jefferson
Thomas Edmund Harvey
- 1948 The Hon. Lewis Williams Douglas
The Rt. Hon. Harold Vincent Mackintosh, 1st Baron
Mackintosh of Halifax and Hethersett
Terry Thomas
Sir Bracewell Smith, 1st Bart.
- 1949 Bernard Mouat Jones
Lillian Margery Penson
General Dwight David Eisenhower
- 1950 Robert Birley
The Rt. Hon. Sir Francis Raymond Evershed
The Rt. Hon. Louis Francis Albert Victor Nicholas
Mountbatten, Earl Mountbatten of Burma
Walter Frank Pothecaray
- 1951 The Rt. Hon. Lawrence Roger Lumley, 11th Earl of
Scarborough
The Rt. Hon. Margaret Selina Hamilton-Russell, Dowager
Viscountess Boyne
The Lady Helen Cynthia Colville
Dame Julia Myra Hess
Sir Hubert Stanley Houldsworth
Sir John Huggins
The Rt. Hon. Angela Olivia Pery, Countess of Limerick
Dame Hilda Nora Lloyd
David Beevers
Brigadier James Noel Tetley
Kathleen Chambers
Sir George William Martin
John Bowes Morrell
- 1952 Albert Herman Aldridge
Marius Adolphus van Bouwdijk Bastiaanse
Sir Eardley Lancelot Holland

Doctors of Divinity

- 1939 The Rev. Vincent Taylor
- 1943 The Most Rev. and Rt. Hon. Cyril Forster Garbett,
Lord Archbishop of York
- 1948 The Rt. Rev. William James Hughes, Bishop of Barbados
- 1951 The Rt. Rev. George Armitage Chase, Lord Bishop of
Ripon

Doctors of Letters

- 1922 Bruce Lyttelton Richmond
- 1923 The Rt. Hon. Lawrence John Lumley Dundas, 1st Earl
of Ronaldshay
- 1928 Charles Talbot Onions
- 1929 William Edwards
- 1932 Herbert Read
- 1933 Sir Charles Reed Peers
- 1934 Elizabeth Mary Wright
- 1936 Herbert Henry Edmund Craster
Henry Vaughan Lanchester
- 1938 Giovanni Gentile
- 1939 Frank Merry Stenton
Thomas Stearns Eliot
- 1943 Charles Travis Clay
Margaret Storm Jameson
- 1945 Henry Moore
- 1947 Henry Buckley Charlton
Sirgurdur Nordal
- 1948 Edith Sitwell
- 1949 Phyllis Eleanor Bentley
Emile Victor Rieu
- 1950 Lord David Cecil
Barker Fairley
- 1951 Thomas Arthur Lodge

Doctors of Science

- 1906 Carl Theodor Liebermann
Paul Pelseneer
- 1912 Friedrich Springorum
- 1922 le Duc de Broglie
- 1927 Robert Andrews Millikan
- 1930 Owen Willans Richardson
- 1934 Sir Robert Muir
- 1938 Cecil John Turrell Cronshaw
- 1939 John Sebastian Bach Stopford
William Lawrence Bragg
Leonard Alfred Rowden
- 1943 Edward Victor Evans

- 1945 Sir Edward Victor Appleton
 Sir Henry Thomas Tizard
 1947 Michael Polanyi
 Croyden Meredith Whittaker
 1948 Sir Percival Hartley
 1949 James Couper Brash
 Sir James Chadwick
 Arnold Trevor Green
 1950 William Norman Pickles
 Robert Whytlaw Whytlaw-Gray

Doctors of Philosophy

- 1932 Osbert John Radclyffe Howarth
 1944 Harold Whitaker
 1947 Wilfred Joseph Halliday
 Henry Alvin Mahony
 William Goodwin Senior

Masters of Science

- 1915 John William Taylor
 1928 William Sinton Thorburn
 Walter Marston
 1938 William Sawney Bisat

Masters of Arts

- 1919 Francis Vaughan Hall
 1922 The Rev. Bernard Horner
 1933 Elizabeth Winfield
 1936 Richard James Gordon
 1951 John James Ilett
 Gertrude Illingworth
 James Edward Laybourn

Graduates

JANUARY 1950—JUNE 1952

- Aber, Clive Peter, M.B., Ch.B., Hons. II, 1952.
 Aber, Geoffrey Michael, M.B., Ch.B., 1952.
 Abson, Alec Lionel, B.Sc., 1952.
 Ackroyd, Eric, B.A., 1951.
 Ackroyd, Mrs. (see Findlay, Helen Margaret).
 Ackroyd, John, B.Sc., 1950.
 Acton, Margaret Joan, B.A., 1952.
 Adams, Brian William, B.Com., 1951.
 Adams, Haldane Reginald, B.A., 1950.
 Adams, Roger William, B.Sc., Hons. Physics with Elect. Engrg.
 II., 1952.

- Adkin, Harold William, B.A., Hons. History II(i), 1951.
 Afe, Okungbowa Ibukun, B.A. Hons. Econ. and Polit. Science III., 1951.
 Agerskow, Donald, B.A. Hons. Geog. II(i), 1950.
 Ahmed, Farid Ramadan, B.Sc. Hons. Maths. II., 1950.
 Ainscough, John Brian, B.Sc., Hons. Chem. II., 1952.
 Ainsworth, James, B.Sc., 1951.
 Aitkenhead, Heather Campbell, B.Sc., 1950.
 Alderson, Katherine Beryl, M.B., Ch.B., 1952.
 Alderson, Sylvia, B.Sc., 1950.
 Aldred, Alec Sanderson, B.Sc. Hons. Elect. Engrg. I., 1950 ; M.Sc., 1951.
 Alexander, Frank John Richard, B.Sc. Hons. Agricultural Studies II., 1952.
 Alldritt, William Michael, B.A., 1951.
 Allen, John Catling, B.A., 1950.
 Allison, Frederick Richard, B.Sc., 1951.
 Allison, Keith John, B.A. Hons. Geog. II(ii), 1952.
 Allonby, Robert Henry, B.Sc., Hons. Geol. III., 1951.
 Ambler, Edward David Handley, B.A. Hons. Econ. and Polit. Science III., 1950.
 Amin, Taher, M.Com., 1950.
 Anderson, Agnes Rosemary, B.Sc. Hons. Biochemistry II., 1952.
 Anderson, Derrick Keith, B.Sc. Hons. Textile Industries (*Aegrotat*) 1952.
 Anderson, Frederick William, D.Sc., 1950.
 Andrews, Valerie Joyce, B.A. Hons. Eng. II(i), 1951.
 Andrews, William Hubert, B.Sc., 1952.
 Anous, Mohamed Mohamed Tawfic, Ph.D., 1951.
 Anthony, Mrs. D. A. (see Burges, Honor Mary)
 Appleyard, Peter Russell, B.Com. Hons. III., 1950.
 Appleyard, Raymond Russell, B.A. Hons. French II (ii), 1950.
 Archer, Betty, B.Sc., 1951 ; Hons. Zoology II., 1952.
 Archer, Cyril, B.A., 1950.
 Archer, Donald, B.Sc., 1951.
 Archer, Edward Thomas Stuart, M.Ed., 1951.
 Archer, Jack Raymond, B.Sc., 1952.
 Archer, Sidney William, B.A., 1950.
 Armitage, Edward Mitton, B.A., Hons. Geog. II(i), 1951.
 Armstrong, John, B.A. Hons. Geog. II(ii), 1952.
 Arran, Gerald, B.A., 1950.
 Arter, John Albert, B.Sc., 1951.
 Ash, Anthony Stanley Fenton, Ph.D., 1951.
 Ash, Ivor Frank, B.Ch.D., 1950.
 Ashbridge, Roy, B.A. Hons. French II(ii), 1952.
 Ashby, Dennis Charles, B.Sc., 1950 ; M.Sc., 1952.
 Asher, Frank, B.Ch.D., 1950.
 Ashley, Norman, B.A., 1951.
 Ashton, Thomas, B.Sc. Hons. Physics with Elect. Engrg. II., 1950.

- Ashworth, Jack Lumb, B.Sc. Hons. Chem. III., 1950.
Ashworth, James Bryan, B.A. Hons. Geog. III., 1951.
Ashworth, Joan, B.A. Hons. Geog. III., 1950.
Ashworth, Peter Laurence, LL.B. Hons. II(ii), 1950.
Askellsson, Heimir, M.A., 1952.
Asquith, Raymond Smith, Ph.D., 1951.
Astle, Alan John, B.A. Hons. Geog. II(ii), 1952.
Astley, David Ernest, B.Ch.D., 1952.
Aston, Charles Eric John, B.Sc. Hons. Textile Indus. II., 1950.
Atkin, Michael Allan, LL.B., 1952.
Atkins, Mrs. (see Harvey, Enid).
Atkinson, Avice Muriel, M.B., Ch.B., 1951.
Atkinson, Denis Richard, B.Ch.D., 1951.
Atkinson, Eileen, M.B., Ch.B., 1950.
Atkinson, Eileen Elizabeth, B.A. Hons. Hist. II(ii), 1952.
Atkinson, Gillian Mary, B.Sc., 1950.
Atkinson, John Brian, B.A. Hons. Philos. II(ii), 1952.
Atkinson, John Charles, B.Sc. Hons. Chem. III., 1951.
Atkinson, John Hilary, M.A., 1952.
Atkinson, Michael William, M.B., Ch.B., 1951.
Austin, Raymond Vivian, Ph.D., 1951.
Axon, Ronald, B.A. Hons. History III., 1951.
Ayerst, Edward Richard, B.A., 1951.
Ayres, Jean Dorothy, B.Sc. Gen. Hons. II., 1951.
Backhouse, Alan James, B.Sc. Hons. Col. Chem. II., 1951.
Backhouse, Geoffrey Soye, B.A. Hons. Hist. II(ii), 1950.
Bacon, George Desmond, B.Sc., 1950.
Bailey, Edward, B.A. Hons. Geog. III., 1951.
Bailey, William Rowland, B.A. Hons. Geog. II(ii), 1951.
Bainbridge, John Taylor, B.Sc., 1952.
Baines, Albert, Ph.D., 1951.
Baines, William, M.Sc., 1952.
Baker, Audrey, B.A. Hons. History II(i), 1951.
Baker, Harold, B.A., 1952.
Baker, Peter Robin, B.A., 1951.
Baker, Sheila, B.A. Hons. Social Studies II(ii), 1950.
Balaam, Ronald Edward, B.A., 1952.
Baldwick, Sheila (Mrs. Sharpe), M.B., Ch.B., 1950.
Baldwin, Henry, B.Sc., 1950.
Baldwin, Peter Harrison, B.Sc., 1952.
Baldwin, Sybil Rosita, B.Sc., 1951.
Ball, George Dennis, B.Sc. Hons. Textile Industries II., 1952.
Ball, John Geoffrey, B.Sc., 1950.
Ball, Patricia Mary, B.A. Hons. Eng. I., 1952.
Bancroft, Alan, LL.M., 1952.
Bancroft, Neville Denis, B.A., 1952.
Banks, Celia Jean, B.Sc., 1950.
Bannister, Sheila Graham, B.A. Hons. Eng. II(ii), 1951.
Barat, Sisir Kumar, M.Sc., 1950; Ph.D., 1952.
Barb, Wolfgang Gerson, Ph.D., 1950.

- Barber, Joan Emily, B.A. Hons. Eng. II(i)., 1952.
 Barber, John Anstey, B.Sc. Hons. Elect. Engrg. I., 1950.
 Barber, Robert Derek Sydney, B.Sc., 1951.
 Barford, Philip Trevelyan, M.A., 1950.
 Bargh, George Edward Norman, LL.B. Hons. II(i)., 1950.
 Barker, Frank Granville, B.A., 1950.
 Barker, John Ernest, Ph.D., 1950.
 Barker, Margaret Joyce (Mrs. Dobson), M.B., Ch.B., Hons. II., 1951.
 Barker, Pamela Margaret Wentworth, B.Sc., 1951.
 Barlow, Arthur, B.A. Hons. Social Studies II(i)., 1951.
 Barlow, Betty, B.A. Hons. Eng. II(i)., 1952.
 Barlow, Eileen, B.Sc. Hons. Maths. III., 1952.
 Barnbrook, Jennie, B.Com., 1951.
 Barnes, Bryan Peter, B.A., 1950.
 Barnes, John Sylvester, B.A. Hons. Econ. and Polit. Science III., 1951.
 Barnes, Keith Desmond, B.A., 1950.
 Barnes, Shirley Margaret, B.A., 1952.
 Barnett, Cynthia, M.B., Ch.B., 1950.
 Barnett, Ivor Herbert, B.A., 1951.
 Barraclough, Derek, B.A. Hons. Geog. II(ii)., 1950.
 Barraclough, Leslie, B.Sc., 1950.
 Barras-Smith, Michael Allen, B.A. Hons. Geog. II(ii)., 1951.
 Barrett, Denis, M.Sc., 1950.
 Barrett, Geoffrey Francis Conrad, Ph.D., 1952.
 Barry, James Leo Caldwell, B.A., 1951.
 Barstow, Clifford, B.Sc., Hons. Metallurgy III., 1951.
 Bartle, John Edward, B.Sc. Hons. Chem. Engrg. I., 1950.
 Bartlett, David Alfred, B.Sc., 1950.
 Bartlett, Florence Elizabeth, B.A., 1950.
 Barton, Derek, B.Sc., Hons. Colour Chem. I., 1952.
 Batey, William Ivor, B.A., 1950.
 Batley, John Herbert, M.Ed., 1950.
 Batty, Jean Elizabeth, B.Sc. Hons. Pharmacology II., 1950.
 Baxter, John Robert, Ph.D., 1951.
 Bayles, Peter Frederick, B.Sc. Hons. Chem. III., 1951.
 Baynes, Arnold John, B.Sc. Hons. Agricultural Studies II., 1952.
 Beahan, Patrick Henry, B.A. Hons. Philos. III., 1952.
 Beale, John, B.A. Hons. Spanish II(ii)., 1951.
 Beardsworth, John Albert, B.A., 1952.
 Beaumont, John Michael, B.Sc., 1951.
 Beaumont, Olive Daphne, B.Sc., 1951.
 Beaumont, Roy, B.Sc. Hons. Elect. Engrg. II., 1951.
 Bebbington, Alec, B.A. Hons. Eng. II(i)., 1951.
 Beck, John Clifford, B.Sc., 1951.
 Beck, Maurice Sidney, B.Sc. Hons. Elect. Engrg. I., 1950.
 Beck, Ruth, B.A., 1951.
 Beckwith, Frank, B.A. Hons. Eng. II(i)., 1951.
 Becroft, Jean Mary, M.B., Ch.B., 1951.

- Beesley, William Noel, B.Sc., 1951.
 Bell, Bertram, B.A. (with Hons. in General Studies), 1951.
 Bell, Claire (Mrs. Dodds), B.A., 1951.
 Bell, Eileen Mary, B.Sc., 1952.
 Bell, James William, Ph.D., 1950.
 Bell, John Alan, B.Sc. Hons. Mech. Engrg. II., 1950.
 Bell, Joyce, B.A. Hons. Econ. and Polit. Science III., 1951.
 Bell, Kenneth Oliver, B.Sc. Hons. Civil Engrg. II., 1951.
 Bellhouse, Eric, B.Sc. Hons. Colour Chem. II., 1952.
 Bellwood, Brian, B.A., 1952.
 Bellwood, Derek, B.Sc., 1952.
 Benham, Nancy Elizabeth, B.A. Hons. Social Studies II.(i)., 1950.
 Benn, Alan, B.A., 1951.
 Benn, Peter James, B.Sc. Hons. Mining Engrg. II., 1952.
 Bennett, Frederick William, B.A. Hons. Econ. and Polit. Science II(ii)., 1951.
 Benneworth, Ronald, B.A. Hons. Econ. and Polit. Science III., 1951.
 Bentham, Russell, M.Sc., 1952.
 Bentley, Frank Joseph, B.A., 1951.
 Berridge, Joyce Margaret, B.A. Hons. Social Studies II(i)., 1950.
 Berry, Mrs. F. (see Fox, Mildred).
 Berry, Walter Richard, Ph.D., 1950.
 Berwin, Malcolm, B.Com., 1951.
 Berwin, Stanley Jack, LL.B. Hons. III., 1950.
 Beswick, Colin Edward, B.A. Hons. Philos. III., 1951.
 Bettley-Cooke, Brian, B.A. Hons. Econ. and Polit. Science III., 1951.
 Betts, Maxwell Irwin, B.Sc., 1952.
 Betts, Welsley Donald, B.Sc. Hons. Chem. III., 1952.
 Bevan, David Herbert, B.A., 1952.
 Beverland, Margaret Sarah, M.B., Ch.B., 1951.
 Bhandari, Jagjit Chand, B.Sc., 1951.
 - Bhattacharjee, Haripada, Ph.D., 1952.
 Bick, David Ewart, B.Sc. Hons. Mech. Engrg. I., 1951.
 Biggs, Patricia, B.A. Hons. French II(i)., 1951.
 Billingham, Peter Anthony, B.Sc., 1952.
 Billington, Geoffrey Allott, B.Sc., 1950 ; Hons. Physics III., 1951.
 Billington, Rachel Margaret, B.A. Hons. Eng. II(ii)., 1951.
 Bills, Geoffrey Thomas, B.Sc., 1951.
 Bingham, Barbara, B.A., 1950.
 Binks, Kenneth, B.Sc. Hons. Elect. Engrg. III., 1951.
 Birch, John Longworth, B.Sc., 1951.
 Birch, Reginald Stanley Davies, B.A. Hons. Latin I., 1950.
 Bird, Thomas, B.A. Hons. Hist. II(ii)., 1952.
 Birkby, Millicent Dyllys, M.A., 1950.
 Birtwell, Stanley, Ph.D., 1950.
 Bjarnadottir, Sigurlaug, B.A., 1951.
 Black, Barrington Malcolm, LL.B. Hons. III., 1952.
 Black, Victor Maurice, B.A. Hons. Econ. and Polit. Science II(ii)., 1950.

- Blackah, Brian Gilbert, B.Sc., 1952.
 Blackburn, John, M.B., Ch.B., 1951.
 Blackhurst, Elizabeth Rachel, B.A., 1950.
 Blacklock, William Terence, B.Sc., 1952.
 Blackwell, Frederick Mervyn, B.A. Hons. German II(ii), 1950.
 Blades, Donald William, B.A., 1952.
 Blakelock, Marjorie, B.Sc., Hons. Chem. III., 1951.
 Bleazard, William, B.Sc. Hons. Chem. II., 1952.
 Blenkiron, Thomas Frederick, B.Sc. Hons. Mech. Engrg. II., 1952.
 Blomley, Bernard, B.A. Hons. Econ. and Polit. Science. II(ii), 1950.
 Bloom, Hyman William, M.Ed., 1951.
 Bloomfield, Keith, B.Sc. Hons. Geology II., 1951.
 Bloss, Herta, B.A. Hons. Mod. Langs. II(ii), 1952.
 Boland, Michael Louis, LL.B. Hons. II(i), 1952.
 Bolton, Audrey Mary, M.B., Ch.B., 1951.
 Bolton, John, B.Sc. Hons. Chem. II., 1952.
 Bolton, Nancy Mary, B.A. Hons. Social Studies II(ii), 1951.
 Bone, Gwenyth Hodson, B.A. Hons. Philos. I., 1951.
 Bonwit, Lisa Auguste Amalie, B.A. Hons. German II(i), 1952.
 Booth, Brian Douglas, B.Sc. Hons. Textile Indus. II., 1950.
 Booth, Edward Philip, B.Sc. Hons. Mech. Engrg. I., 1950.
 Booth, George Leslie, B.Sc. Hons. Physics I., 1951.
 Booth, James, B.A. Hons. Philos. II(ii), 1951.
 Booth, Valerie Mellor, B.A. Hons. Eng. II(i), 1952.
 Boothroyd, Brian, Ph.D., 1952.
 Borens, Rich, B.Sc., 1952.
 Boswell, Ronald Leonard, B.A. Hons. Geog. II(ii), 1951.
 Bottomley, James Maurice, B.Ch.D., 1950.
 Bouch, William Ernest, B.Sc., 1950.
 Boulby, Mark, Ph.D., 1952.
 Bourne, Richard Arthur, B.Sc. Hons. Mining Engrg. II., 1950.
 Bowker, Michael Kenyon, B.Sc. Hons. Chem. III., 1951.
 Bowles, Vernon Branson, M.B., Ch.B., 1951.
 Bownass, Richard, B.Sc., 1950.
 Boxall, Robert Henry, B.Sc., 1952.
 Boyd, Alastair Robertson, B.A., 1951.
 Boyd, George Allan, B.Sc., 1950.
 Boyd, Ian Robertson, LL.B. Hons. III., 1950.
 Bradley, Denis, B.Sc., 1950.
 Bradley, Jack, B.Ch.D., 1950.
 Bradley, James, B.Sc., 1951.
 Bradley, Peter, B.Sc., 1950 ; Hons. Gas Engrg. II., 1951.
 Bradshaw, Arthur Jeffrey, B.Sc., 1952.
 Bradshaw, George, B.Sc., 1951.
 Bramham, Ronald Robertson, B.A. Hons. French II(i), 1950.
 Bramley, Charles Wellburn, B.Sc., 1950.
 Bramley, Jack Gordon, B.Sc. Hons. Chem. II., 1950.
 Brandon, Dennis Ralph, B.A., Hons. Eng. II(ii), 1950.

- Brandon, Mrs. (see Cotton, Patricia Elizabeth Ann).
Brayshaw, David Denison, B.Sc. Hons. Physics III., 1952.
Brayshaw, Kenneth Grove, B.Ch.D., 1952.
Brayshaw, Mary, M.B., Ch.B., 1951.
Brechnner, Arnold, B.Com. Hons. II(ii), 1952.
Brennan, Edward Francis, B.A., 1950.
Brice, Nancy, B.Sc. Hons. Chem. III., 1951.
Brick, Douglas Lawton, M.B., Ch.B., 1951.
Bridge, Cynthia Elizabeth Mary, B.Sc., 1951.
Briggs, Philip Thornton, B.A., 1951.
Briggs, Ronald Frederick, B.A., 1950.
Briscoe, Sheila, B.Sc., 1952.
Bristow, George Michael, B.Sc. Hons. Chem. I., 1950.
Broadbent, John Lees, M.D. (*with distinction*), 1950.
Broadbent, Peter, B.Sc., 1951.
Broadhurst, Frederick Peover, B.Sc. Hons. Civil Engrg. I., 1952.
Broadhurst, Ralph, B.Sc. Hons. Col. Chem. II., 1951.
Brockis, Derek Arthur, B.Sc. Hons. Textile Industries I., 1952.
Bronsdon, Charles Kenneth, B.Sc. Hons. Chem. III., 1951.
Brook, Geoffrey, B.Sc. Hons. Physics I., 1950.
Brook, Keith Malcolm, B.Sc. Hons. Civil Engrg. I., 1950.
Brooke, Geoffrey Peace, B.Sc., 1952.
Brookes, Elizabeth Marie Jeanne, B.A., 1950.
Brookes, Frederick Reginald, B.Sc., Gen. Hons. III., 1951.
Brookfield, Gordon Trevor, B.A. Hons. Econ. and Polit. Science II(ii), 1950.
Broomhall, Patricia Dorothy, M.B., Ch.B., 1950.
Brotton, Derick Maxwell, Ph.D., 1951.
Brown, Barbara Greenwood, B.Sc., 1950 ; Hons. Pharmacology I., 1951.
Brown, David Radcliffe, B.A., 1950.
Brown, Dennis Geoffrey, M.B., Ch.B., 1951.
Brown, Henry Barry, M.B., Ch.B., 1950.
Brown, Jean Margaret, B.A. Hons. French II(ii), 1952.
Brown, Margaret Jean, B.Sc., 1952.
Brown, Norman Stirland, B.Sc. Hons. Physics III., 1951.
Brown, Peter, B.Sc., 1950.
Brownbill, Dennis, B.Sc. Hons. Chem. III., 1951.
Browne, Stanley St. John, B.Sc., 1951.
Bruce, Clive Stuart, B.Sc. Hons. Col. Chem. I., 1951.
Bryars, Donald Leonard, B.A. Hons. Hist. II(i), 1950.
Bryce, Elizabeth Margaret, B.A. Hons. Hist. III., 1952.
Buck, Alice Emily, M.D., 1950.
Buckle, Philip Leslie Kidson, B.A. Hons. Classics II(i), 1951.
Buckley, Barbara Stansfield, B.A., 1950.
Buckton, Alec, B.Sc., 1951.
Buckton, Thomas Archibald Grant, B.Sc. Hons. Mech. Engrg. III., 1951.
Bull, Beryl Joan, B.A. Hons. French III., 1951.
Bull, William Rex, B.Sc. Hons. Mining Engrg. II., 1952.

- Bullock, Colin James, B.Sc. 1951; Hons. Gas Engrg. II., 1952.
 Bulmer, Leonard, B.A. Hons. French II(i), 1950.
 Bune, John Richard William, B.Sc., 1952.
 Burdon, William, B.A., 1951.
 Burges, Honor Mary (Mrs. D. A. Anthony), M.B., Ch.B., 1951.
 Burgess, David, B.A., 1952.
 Burkinshaw, Frederick, B.A., 1952.
 Burkinshaw, Thomas Nelson, B.A. Hons. German II(i), 1952.
 Burley, Ralph Walter, Ph.D., 1952.
 Burley, Sidney John, M.A. (*with distinction*), 1952.
 Burman, Divya Jyoti, B.Sc. Hons. Elect. Engrg. III., 1952.
 Burnett, Jean Margaret, M.B., Ch.B., 1951.
 Burnill, Frank Alan, B.Sc., 1951.
 Burton, Austin Stephen, LL.B. Hons. II(ii), 1950.
 Burton, Beryl, B.A. Hons. German II(ii), 1951.
 Burton, Deryck, B.A., 1951.
 Burton, Geoffrey Winspear, M.B., Ch.B., 1950.
 Burton, Sheila, B.A., 1952.
 Burwell, Richard Geoffrey, M.B., Ch.B., Hons. II., 1952.
 Butcher, Jeffrey Vyvyan, B.Sc. Hons. Colour Chem. II., 1952.
 Butler, Christopher John, B.A., 1950.
 Butler, Lionel Derek, B.Sc., 1952.
 Butterfield, Donald, B.A., 1952.
 Butterworth, Brian Avison, LL.B. Hons. II(i), 1950.
 Byrne, Edward Michael, B.A. Hons. Geog. II(i), 1950.
 Bywood, Roy, B.Sc. Hons. Chem. II., 1950.
 Cais, Moses, B.Sc., 1950.
 Calam, Sheila Elizabeth, B.A. Hons. Hist. II(i), 1950.
 Calverley, David John Balmforth, B.Sc., 1951.
 Calverley, Edward Hilton, M.B., Ch.B., 1950.
 Cameron, Douglas Howard, B.Sc. Hons. Physics. I., 1952.
 Campey, Geoffrey, LL.B. Hons. I., 1950.
 Campey, John Hall, B.A., 1950.
 Camplejohn, James, B.Sc. Hons. Elect. Engrg. II., 1952.
 Capewell, Maurice Watson, B.Sc., 1950.
 Caplan, Maurice, B.A., 1950.
 Capp, Clifford William, Ph.D., 1950.
 Carberry, John Anthony, B.Sc., 1950.
 Carden, Margaret, M.B., Ch.B., 1950.
 Carder, John Frederick, B.Sc., 1951.
 Cardis, Marianne, B.A. Hons. Spanish I., 1950.
 Care, Anthony Deuchar, Ph.D., 1952.
 Carnell, Winifred Pauline Cynthia, B.A., Hons. Social Studies
 III., 1951.
 Carpenter, Eric William, B.Sc. Hons. Physics II., 1952.
 Carpenter, Michael, B.A. Hons. Geog. II(ii), 1951.
 Carpenter, Norman, Ph.D., 1952.
 Carr, Michael Hugh, B.Sc. Hons. Anatomy II., 1951.
 Carroll, Brian, B.Sc. Hons. Chem. III., 1951.
 Carson, James Rawson, B.A. Hons. Geog. II(i), 1952.

- Carter, Anthony Welford, B.Sc., 1950.
 Carter, Geoffrey Edward, B.A. Hons. Eng. I., 1950; M.A., 1951.
 Carter, Gerald Sydney, B.Sc. Hons. Geol. II., 1950.
 Carter, Harvey James, B.Sc., Hons. Chem. of Leather Manufacture II., 1952.
 Carter, John Donald, B.Sc. Hons. Geol. II., 1950.
 Carter, Pauline Louisa, B.A. Hons. Eng. II(ii), 1952.
 Carter, Reginald Howard, LL.B. Hons. II(ii), 1951.
 Cartwright, Phyllis May, B.Sc. Hons. Botany I., 1950.
 Casado, Francisco Lopez, Ph.D., 1950.
 Cass, Frederick Henry, B.Sc. Hons. Chem. Engrg. II., 1951.
 Cass, Raymond Patrick, B.Sc. Hons. Elect. Engrg. II., 1950.
 Castledine, Robert Mitchell, B.Sc. Hons. Chem. III., 1952.
 Caswell, Marjorie Lucy, B.A. Hons. Hist. II(i), 1952.
 Catley, Donald Sykes, B.Sc. Hons. Maths. III., 1952.
 Caufield, Arthur, B.Sc., 1951.
 Chaikin, Malcolm, B.Sc. Hons. Textile Indus. II., 1950.
 Chakraverti, Indu Bhusan, Ph.D., 1950.
 Chalmers, David Fairbairn, B.Sc. Hons. Chem. III., 1951.
 Chamberlin, Barbara Joy, B.A. Hons. Hist. II(ii), 1952.
 Chapman, Richard Edward, Ph.D., 1952.
 Chapman, Robert Edward, B.Sc., 1952.
 Chapple, Peter Arbuthnot Lane, M.B., Ch.B., 1950.
 Charity, Sydney, B.Sc., 1950.
 Charlesworth, Arthur, M.Sc., 1951.
 Charnock, Jack, B.Sc., 1951.
 Cheetham, John Raymond, B.Sc., 1950.
 Cheetham, Mollie, B.A. Hons. Geog. II(ii), 1950.
 Chesner, Louis, B.Sc. Hons. Textile Indus. II., 1950.
 Chinnery, Brendan Joseph, B.A. Hons. French III., 1950.
 Christian, Ruth, M.A., 1951.
 Church, Grace Amy, B.A., 1951.
 Churley, Peter Armitage, B.A. Hons. Econ. and Polit. Science II(ii), 1950.
 Clark, Anthony Neville Gordon, M.D., 1951.
 Clark, Donald, B.Sc. Hons. Gas. Engrg. II., 1951.
 Clark, Donald, B.Sc. Hons. Mining Engrg. II., 1952.
 Clark, Michael Arthur, B.Sc., 1950.
 Clarke, Antony Christian Priest, B.A., 1951.
 Clarke, Antony Douglas, M.B., Ch.B., 1951.
 Clarke, Arthur Sydney, Ph.D., 1951.
 Clarke, Barbara Mary, B.A. Hons. Social Studies II(i), 1950.
 Clarkson, Brian Leonard, B.Sc. Hons. Civil Engrg. II., 1951.
 Clarkson, Colin Lowthian, LL.B. Hons. II(i), 1952.
 Clarkson, David Alfred, B.A. Hons. French III., 1952.
 Clarkson, Geoffrey Maurice, B.Sc. Hons. Civil Engrg. II., 1950.
 Clarkson, Peter, B.Sc. Hons. Civil Engrg. I., 1950; M.Sc., 1951.
 Class, Peter, B.Sc., 1950.
 Cloughton, Frederick Gerald, B.Sc. Hons. Mining Engrg. II., 1952.

- Clay, Ruth Pauline, B.A. Hons. Eng. II(i), 1951.
 Cleary, Bernard, B.A. Hons. Eng. II(i), 1951.
 Clegg, Donald, B.Sc., 1952.
 Clegg, Margaret Joan Elizabeth, B.Sc. Hons. Maths. I., 1952.
 Clements, Christopher Hugh, B.Sc. Hons. Civil Engrg. II., 1951.
 Clifford, Tom Neville, B.Sc. Hons. Geol. I., 1952.
 Clough, Beryl Finch, B.Ch.D., 1950.
 Clough, Cedric Barton, B.A. Hons. Geog. II(ii), 1952.
 Clough, Donald Keighley, B.Sc., 1950.
 Coates, Jack, B.Sc., 1952.
 Cockburn, Roy, B.Sc. Hons. Chem. II., 1950.
 Cockcroft, Leslie Frank Dennis, B.Sc., 1951.
 Cockerill, Arthur Melvyn, B.A., 1951.
 Cohen, Rita Estelle, B.A. Hons. Social Studies II(i), 1952.
 Cole, Alan, B.A., 1951.
 Cole, John Benson, B.Com. Hons. II(ii), 1951.
 Coleman, Thomas Brian, B.A., 1950.
 Coleman, John, B.Sc. Hons. Col. Chem. III., 1951.
 Coleridge, John Colin Goss, M.B., Ch.B., Hons. II., 1951.
 Coles, Ellen, B.A., 1950.
 Colley, Reginald James, B.Sc., 1951.
 Collier, Stanley John, Ph.D., 1950.
 Collinge, Robert Maurice, B.Sc., 1952.
 Collins, Barbara Edna, B.A., 1951.
 Collins, Leon Hilbert, LL.B. Hons. II(ii), 1952.
 Collinson, John Leigh, B.Sc. Hons. Mech. Engrg. III., 1950.
 Collinson, Kenneth Stuart, B.Sc. Hons. Mining Engrg. II., 1951.
 Collyear, John Gowen, B.Sc., 1951.
 Colvin, James George, B.Sc., 1950.
 Comber, Anthony James, M.Sc., 1952.
 Conder, Joan Margaret, B.A. Hons. Eng. III., 1952.
 Conliffe, Albert George, B.Sc. Hons. Mining Engrg. II., 1952.
 Connell, Peter Alfred, B.A. Hons. Eng. II(ii), 1950.
 Cook, Alan, B.A. Hons. Eng. II(i), 1951.
 Cook, George James, B.Sc. Hons. Elect. Engrg. II., 1952.
 Cook, James Harry, B.A., 1950.
 Cook, Janet Evelyn, B.A., 1950.
 Cook, Michael John, LL.B. Hons. II(i), 1951.
 Cooke, Hazel, B.A. Hons. Hist. II(ii), 1952.
 Cooke, Ian Joseph, B.Sc. Hons. Chem. I., 1952.
 Cookson, Kathleen Margaret, B.A. Hons. Social Studies I., 1951.
 Cooper, Alfred Kenneth, M.B., Ch.B., 1951.
 Cooper, Colin Bayliss, B.Sc. Hons. Elect. Engrg. I., 1952.
 Cooper, Geoffrey, B.Sc. Hons. Elect. Engrg. II., 1951.
 Copland, James, B.Ch.D. Hons. II., 1952.
 Coplowe, Doreen, B.A. (with Hons. in General Studies), 1951.
 Corbridge, Derek Edgar Charles, Ph.D., 1951.
 Core, John, B.A., 1952.
 Cornwell, Anthony Joseph, B.A. Hons. Latin I., 1952.

- Cosby, William Trevor, Ph.D., 1956.
 Cotes, Anthony Arnold, B.A. Hons. Classics II(i), 1950.
 Cottle, Joseph Hargreave James, B.A. Hons. Hist. III., 1952.
 Cotton, Patricia Elizabeth Ann (Mrs. Brandon), B.A. Hons. Eng. II(ii), 1950.
 Coucom, Derek Ellis, B.Sc., 1951.
 Coulson, Geoffrey, B.Sc. Hons. Civil Engrg. II., 1952.
 Coulthard, Leslie, B.A. Hons. Geog. II(i), 1950.
 Counsell, Joyce Howarth Fletcher, B.A., 1951.
 Courtney, John Richard, B.A., 1951.
 Coventry, Pauline Stevenson Rushford, B.A. Hons. Social Studies II(ii), 1952.
 Cowell, Dorothy, B.Sc. Hons. Chem. III., 1951.
 Cowell, Enid Rosamund, B.A. Hons. Eng. II(ii), 1951.
 Cowell, Kenneth Roland, B.Ch.D., 1952.
 Cowperthwaite, Ian Allan, B.Sc. Hons. Geol. III., 1950.
 Cox, Thomas, B.Sc., 1950.
 Cracknell, Alan, B.Sc. Hons. Metallurgy I., 1951.
 Craven, Elizabeth Catherine Erica, B.A. Hons. Geog. II(i), 1950.
 Craven, Thomas, B.A., 1951.
 Crawshaw, James David, B.A., 1951.
 Creasey, John Moray, M.B., Ch.B., 1951.
 Creasey, Maurice Abner, B.D., 1951.
 Cribbes, Robert, B.A., 1950.
 Crisp, Geoffrey, B.Sc., Hons. Zoology I., 1950.
 Critchley, Bernard Albert Terence, B.A., 1950.
 Croft, John Arthur Boydell, B.A., 1950.
 Croft, Norman, B.Sc., 1950.
 Crompton, Alan, B.Sc. Hons. Chem. II., 1950.
 Cropper, Robert Henry, B.Com. Hons. II(ii), 1950.
 Cross, Bernard George, B.Sc., 1951; Hons. Pharmacology II., 1952.
 Cross, Leslie Eric, Ph.D., 1952.
 Cross, Paul Ashton, B.Sc. Hons. Mech. Engrg. II., 1951.
 Crossland, John Davies, M.B., Ch.B. Hons. II., 1951.
 Crossley, Cyril, B.A., 1951.
 Crossley, John Greenwood, B.Sc. Hons. Elec. Engrg. I., 1950.
 Croudson, David, B.Com. Hons. II(i), 1952.
 Crowley, Frank Walton, B.Sc. Hons. Civil Engrg. II., 1952.
 Crowther, Alfred John, B.Sc., 1951.
 Crowther, Clarence Edward, B.A. Hons. History (*Aegrotat*), 1950 ; LL.B. Hons. II(i), 1952.
 Crowther, John Michael, B.A., 1952.
 Crowther, Margaret, B.Sc. Hons. Maths. III., 1951.
 Crowther, William Alfred Robertson, B.Com. Hons. II(ii), 1952.
 Crozier, Hardie Caton, B.Sc., 1951.
 Cullen, John Joseph, B.Ch.D., 1951.
 Cunningham, Malcolm Terence, B.Sc. Hons. Mech. Engrg. I., 1950.

- Cunningham, Richard John, B.Sc. Hons. Physics I., 1950.
 Curnow, Peter Hedley, LL.B. Hons. II(i), 1952.
 Currie, James Irvine, M.B., Ch.B., 1950.
 Currie, Thomas Edwin, B.Sc. Hons. Gas Engrg. II., 1951.
 Curzon, Gerald, Ph.D., 1951.
 Cust, George, M.B., Ch.B., 1952.
 Cuthbert, Keith Henry Robson, B.Sc. Hons. Civil Engrg. III., 1950.
 Czempas, Leonard, B.Sc., 1950. "
 Dabas, Zile Singh, M.A., 1951.
 Dacre, Margaret, B.A. Hons. Geog. II(ii), 1952.
 Dain, Kenneth Henry Messing, B.A., 1950.
 Dalby, Edward Lansdown, B.Sc., 1951.
 Dale, Alan Wheatley, B.Sc., 1950.
 Dale, William Thomas, M.Sc., 1952.
 Danby, John Peter, Ph.D., 1951.
 d'Andria, Vivienne, M.B., Ch.B., 1950.
 Dare, James Gordon, Ph.D., 1952.
 Darlow, Jack Maurice, B.A. Hons. French II(i), 1950.
 Darnell, George Frederick, B.Sc., 1952.
 Darwell, Walter Cleworth, M.Ed., 1951.
 Davey, John James Talbot, B.A. Hons. Eng. II(i), 1952.
 David, Michael Alexander David, B.A. Hons. Spanish II (ii), 1950.
 Davidson, George Henry, B.A., 1951.
 Davies, David Scourfield, M.A., 1950.
 Davies, Jack, M.D. (*with distinction*), 1950.
 Davies, John Philip, B.A. Hons. Geog. II(ii), 1951.
 Davies, John Selwyn, B.A., 1952.
 Davies, Marion, B.A., 1952.
 Davis, Peter Edward B.A., 1951.
 Davis, Philip, B.Sc. Hons. Chem. Engrg. II., 1951.
 Davison, Ernest, B.A. Hons. Econ. III., 1952.
 Dawes, David, B.Sc. Hons. Mining Engrg. II., 1952.
 Dawson, Richard Edward, M.B., Ch.B., 1952.
 Dawson, Sidney Herbert, Ph.D., 1950.
 Dawson, William Norman, B.A. Hons. Hist. III., 1950.
 Day, John Frederick, B.Sc., 1950.
 Dean, Betty, B.A. Hons. Hist. II(ii), 1952.
 Dean, Christopher, B.A. Hons. Eng. I., 1951.
 Dean, Harry Whitham, B.Sc. Hons. Chem. Engrg. II., 1950.
 Dean, William Thornton, B.Sc. Hons. Geol. II., 1952.
 Deans, Ronald William, B.Sc., 1950.
 De Cort, Walter Johan, B.Sc. Hons. Chem. III., 1951.
 de Graft-Johnson, Edward Victor Collins, LL.B. Hons. III., 1952.
 de Graft-Johnson, John Talfourd Furley, M.B., Ch.B., 1951.
 Deighton, Joyce Georgina, B.Sc. with Gen. Hons. II., 1950.
 Delroy, Burton John Morton, LL.B. Hons. II(i), 1951.
 Delvin, Mrs. (see Ponton, Betty Mabel Annie).
 Denby, Stanley Herbert, B.A. Hons. Geog. III., 1952.

- Denison, Brian Keith, B.Sc. Hons. Civil Engrg. III., 1950.
Denman, Roger Daniel, B.Sc., 1952.
Dennison, John Brian, B.A., 1951.
Denton, Jean Mary, B.Sc., 1950.
Denyer, Allen Stewart, M.A., 1950.
Derbyshire, Hugh Bernard, B.Com. Hons. III., 1950.
Devine, Frank, B.Sc., 1950.
Dewhurst, Charles, B.Sc., 1950.
Dibben, Peter Cunningham, B.Sc., 1950.
Dickens, Edwin, B.Sc. Hons. Maths. I., 1951.
Dickinson, Norman, B.Sc. Hons. Physics II., 1951.
Dickinson, Philip Hope, B.A., 1951.
Dickinson, Toni Rex, B.Sc., 1950.
Dixon, Derek, B.Sc. Hons. Colour Chem. II., 1952.
Dixon, John Thornton, B.A., 1952.
Dixon, Julia Rose, B.A. Hons. Social Studies, I., 1952.
Dixon, William John, B.Com., 1950.
Dobie, Thomas Gow, M.B., Ch.B., 1950.
Dobson, David John, B.A., 1951.
Dobson, Mrs. (see Barker, Margaret Joyce).
Docker, Frances Mary (Mrs. Thompson), B.A., 1950.
Dodds, Mrs. (see Bell, Claire).
Dodds, Patricia Kay, B.A. Hons. Hist. II(i), 1950.
Dolphin, Jack Norman, B.Sc. Hons. Chem. III., 1950.
Donaldson, Alice Mary, B.Sc. Hons. Maths. III., 1952.
Donath, George, B.Sc., 1951.
Donovan, Rita, M.Sc., 1950.
Doran, Gerald Anthony, B.Sc. Hons. Physics I., 1952.
Dougherty, Peter Ernest, B.A. Hons. Spanish II(i), 1950.
Dougherty, Mrs. (see Oakes, Olive Dorothy).
Douglas, Charles David, B.Sc., 1950.
Dove, Richard Alan, B.A. Hons. German II(i), 1951.
Downie, James Ian, B.A. Hons. Hist. II(ii), 1950.
Downie, James Rougvie, B.A. Hons. Econ. II(i), 1952.
Dowson, Duncan, B.Sc. Hons. Mech. Engrg. II., 1950.
Drage, Alan Bernard, B.Sc., 1951.
Drake, Pauline Mary, B.A. Hons. Social Studies II(i), 1952.
Dransfield, Philip Brook, B.Sc. Hons. Chem. II., 1951.
Drewery, Charles Cecil, B.Sc. Hons. Chem. Engrg. II., 1950.
Drimer, Cyril, B.Sc. Hons. Chem. III., 1952.
Drinkall, Brian William, B.Sc., 1952.
Driver, Anna Beryl, B.A., 1950.
Driver, Derek, B.A. Hons. French II(ii), 1951.
Drury, Mary Margaret Clare, B.A. Hons. Eng. II(ii), 1952.
Dry, Elsie, M.A., 1951.
Ducker, Philip Robert William, B.Sc., 1950.
Duckmanton, Barrie, B.Sc. Hons. Physics II., 1952.
Duckworth, Peter Stewart, B.Sc. Hons. Chem. III., 1951.
Duffy, Mary, B.A., 1950; M.A. (*with distinction*), 1952.
Duncalf, Deryck, M.B., Ch.B., 1950.

- Dunsby, Manuel, M.B., Ch.B., 1950.
 Dunton, Charles Roger, B.Sc., 1951.
 Dupont, Raymond Emile, B.Com. Hons. III, 1951.
 Dutt, Bidyawati, M.Ed., 1950.
 Dworsky, Leo, B.Sc. Hons. Textile Indus. II., 1950.
 Dyson, Barbara Handley, B.A. Hons. Eng. II(ii), 1952.
 Dyson, Joan Kathleen, B.A., 1952.
 Dyson, Peter, B.Sc. Hons. Geol. II., 1950.
 Easingwood, Harry, B.Sc., 1950.
 Eayrs, Margaret Elizabeth, B.A., 1950.
 Eckersley, Jean Rosemary, B.A. Hons. Eng. II(i), 1952.
 Edgar, John Gordon, M.B., Ch.B., 1951.
 Edmundson, Ronald Stanley, B.Sc. Hons. Chem. II., 1952.
 Edwards, Barbara Campbell, M.B., Ch.B., 1951.
 Edwards, John Barry Wright, B.Ch.D., 1952.
 Edwards, William Owen, B.Sc., 1950.
 Efraimoglou, Lazaros Demetriou, B.Com. Hons. II(ii), 1952.
 Egan, Brian Staveley, B.Sc. Hons. Civil Engrg. I., 1951.
 Egan, Peter Cecil, B.Sc., 1950; Hons. Gas Engrg. II., 1951.
 Eggleston, Philip William, B.Sc., 1952.
 Ellingham, Bruce, B.Sc., 1951; Hons. Physics III., 1952.
 Elliott, John Maurice, B.Sc. Hons. Physics III., 1952.
 Elliott, Joseph Holroyd, B.Sc. Hons. Chem. III., 1952.
 Elliott, Mary, B.A., 1951.
 Elliott, Ronald, B.Sc. Hons. Metallurgy II., 1952.
 Ellis, Alan Cedric, M.B., Ch.B., 1951.
 Ellis, Edward Brian, B.Ch.D., 1951.
 Ellis, John Cyril, LL.B. Hons. II(ii), 1952.
 Ellis, Phyllis, B.A. Hons. Eng. II(i), 1952.
 Ellis, Stanley, B.A. Hons. Eng. II(ii), 1951; M.A., 1952.
 Ellis, Stanley John, B.Sc., 1951.
 Ellis, Tom, B.A., 1950.
 Ellison, William Eric, B.Com. Hons. II(ii), 1950.
 Elmer, Gillian Angela Zoë (Mrs. Holti), M.B., Ch.B., 1952.
 Elvidge, Arthur, B.Sc., 1950.
 Emerson, John Allin, B.A., 1952.
 Emslie, Ellen Speers, M.B., Ch.B., 1952.
 Entwistle, William, B.A. Hons. History II(ii), 1951.
 Epstein, Peter Francis, B.Sc. Hons. Chem. II., 1950.
 Evans, Owen Ellis, M.A. (*with distinction*), 1951.
 Evens, William Henry, B.A. Hons. Eng. III., 1952.
 Ewing, Alan Fraser, B.A., 1951.
 Exley, Frank, B.Sc., 1951.
 Fagerberg, Eivind Oluf Ernst, B.Sc. Hons. Textile Indus. III., 1950.
 Fairfoot, Alan Henry, B.Sc. Hons. Chem. Engrg. III., 1951.
 Falconer, Colin Stuart, B.A., 1951.
 Fall, Harry, B.D., 1951.
 Fancourt, Alan Geoffrey, B.Sc. Hons. Physics III., 1952.
 Fargus, Edwin William, B.Sc., 1952.

- Farnell, Eric Bernard, B.Sc. Hons. Physics II., 1952.
Farrand, Ronald, B.Sc. Hons. Elect. Engrg. II., 1950.
Farrar, Kenneth, B.Sc., 1950.
Farrell, Francis, B.Sc. Hons. Physics II., 1950.
Farrow, Derek Robert, B.A., 1951.
Fawcett, Gordon Raymond, B.Sc. Gen. Hons. II., 1952.
Fawcett, Peter, B.Sc., 1952.
Fayle, Cyril Sidney, B.Sc. Gen. Hons. II., 1952.
Feather, Harry Frederick, B.Sc., 1950.
Feather, John Alan, LL.B. Hons. II(i), 1952.
Feiweles, Lothar Joseph, B.A. Hons. History II(i), 1951.
Fennell, Harold, B.Sc., 1950.
Fenton, Jack, B.A. Hons. French III., 1950.
Fenwick, Eric Gordon, B.A. Hons. Eng. II(ii), 1950.
Ferguson, Roger Michael, B.Sc., 1951.
Fewster, Alan, B.Sc., 1951.
Field, Colin, B.Sc. Gen. Hons. II., 1952.
Field, Michael, LL.B., 1951.
Fielding, Edward, M.A., 1952.
Fielding, Michael Edward, B.Sc. Hons. Textile Indus. II., 1950.
File, Roy Stephen, B.A., 1950.
Findlay, Helen Margaret (Mrs. Ackroyd), B.A. Hons. Social Studies II(ii), 1950.
Finn, Kathleen Anne, B.A. Hons. Eng. II(i), 1952.
Finney, Clement Seymour, B.Sc., 1950.
Firth, Christopher Granville, B.Ch.D., Hons. II., 1950.
Firth, Geoffrey Victor, M.B., Ch.B., 1950.
Fisher, John Ernest, B.A. Hons. Hist. II(i), 1952.
Fisher, Kathleen Doris, B.Sc. Hons. Zoology II., 1951.
Fishwick, Brian, Ph.D., 1952.
Fitton, Edward Paul, M.B., Ch.B., 1952.
Fletcher, Albert Reginald, B.A., 1950.
Fletcher, Arthur William George, B.A., 1950.
Fletcher, Bernard, M.Ed., 1951.
Fletcher, Thomas William, B.Sc., 1951.
Flint, Frances Olga, B.Sc. Hons. Chem. of Leather Manufacture II., 1950.
Florentin, Joseph John, B.Sc. Hons. Physics II., 1951.
Flowers, Harold Marvin, Ph.D., 1950.
Fogg, Betty Kathleen, B.Sc. Gen. Hons. II., 1952.
Foley, Alan George, B.A., 1950.
Ford, Ernest, B.A. Hons. Hist. II(i), 1952.
Ford, Philip Adrian, B.A. Hons. French II(i), 1950.
Fordham, Paul Ellis, B.A. Hons. Geog. II(i), 1950.
Fordham, Sheila Moonyeen, B.A. Hons. Social Studies II(ii), 1951.
Forte, Silvio Samuel, B.Sc. Hons. Elect. Engrg. I., 1952.
Fortune, Pamela Yvonne, B.Sc. Hons. Zoology I., 1950.
Foster, Alan Roland, M.B., Ch.B., 1952.
Foster, Donald, B.A., 1950.

- Foster, George Michael Henderson, B.Sc., 1950.
 Foster, John Keith, LL.B. Hons. I., 1950.
 Foster, Margaret Jean, B.A. Hons. Social Studies II(ii), 1952.
 Foster, Paul Martyn, B.A., 1950.
 Foster, Philip Henderson, B.A., 1950.
 Fothergill, Bernard Henry, B.Sc. Hons. Chem. III., 1950.
 Fothergill, Derek Ivor, B.Sc. Hons. Chem. (*Aegrotat*), 1950.
 Fothergill, Thomas, B.Sc. Hons. Geog. II., 1950.
 Fowell, Edward Joseph Chalker, B.Sc. Hons. Elect. Engrg. I., 1951.
 Fowler, John Stuart, B.Sc., 1952.
 Fox, Frederick William, B.Sc., 1951.
 Fox, Herbert Frederick, B.A., 1950.
 Fox, John Michael, B.Sc., 1952.
 Fox, Mildred (Mrs. F. Berry), B.Com. Hons. II(ii), 1950.
 Fox, Reginald Dixon, B.A. Hons. Econ. and Polit. Science II(ii), 1951.
 Foxton, Herbert, B.Sc. Hons. Chem. II., 1950.
 Francis, Alun Wyn, B.A., 1952.
 Frankish, Charles Peter, B.A., Hons. History II(ii), 1951.
 Frankland, Brian, B.Sc. Hons. Agricultural Studies II., 1952.
 Frankland, James Robert Joseph, B.A. Hons. German III., 1952.
 Franklyn, Lionel Francis, B.A. Hons. Eng. II(ii), 1952.
 Frazer, Don, B.Ch.D., 1950.
 Frazer, Eric Ian, B.Ch.D., Hons. II., 1952.
 Freedman, Murray Phillip, B.Ch.D., 1951.
 Freeman, Peter John Gordon, B.Sc. Hons. Elect. Engrg. I., 1951.
 Freund, Alfred Otto Francis, B.Sc. Hons. Chem. III., 1950.
 Fricker, John Mirfin, B.A. Hons. Geog. III., 1950.
 Frost, Michael John, B.A. Hons. Eng. II(i), 1951.
 Fryers, Jean Margaret, B.A. Hons. Social Studies II(ii), 1950.
 Fuller, Tom Telford, B.A., 1952.
 Furness, Gerald Walter, B.Sc. Hons. Agricultural Studies II., 1952.
 Fyfe, Patricia Janet Duffield, B.A. Hons. Social Studies II(ii), 1952.
 Gabb, David Edward, B.A., 1950.
 Gabbutt, Peter Dickinson, B.Sc. Gen. Hons. II., 1952.
 Gaddes, Ethel, B.A. Hons. Eng. II(ii), 1952.
 Gaimster, Mary Margaret, B.A., 1950.
 Gale, George, B.A. (with Hons. in General Studies), 1952.
 Galinsky, Philip, B.Ch.D., 1952.
 Gallagher, John Ottaway, B.Sc., 1951.
 Galloway, William Henry, B.Com. Hons. II(ii), 1952.
 Galloway, Edward William Dawson, B.Sc. Hons. Textile Indus. I, 1950.
 Galvin, John, M.B., Ch.B., 1952.
 Garas, Roshdy Hakim, M.Com., 1950.
 Gardiner, John Ernest, Ph.D. 1952.

- Garratt, Basil Sanders, LL.B. Hons. II(ii), 1952.
 Garthwaite, Eric, B.Sc. Hons. Elect. Engrg. I., 1950.
 Gartside, Tom Edmondson, B.Sc. Hons. Civil Engrg. II., 1952.
 Gaskell, John Alan, B.Sc. Hons. Chem. III., 1952.
 Gasparics, Elizabeth, B.A., 1952.
 Gass, Ian Graham, B.Sc. Hons. Geol. II., 1952.
 Gatecliff, Hazel Ingram, B.A. Hons. Social Studies III., 1951.
 Gateley, Catherine, B.A., 1950.
 Gaukroger, John, B.Sc. Hons. Elect. Engrg. II., 1950.
 Gavade, Ankush Shankar, Ph.D., 1950.
 Gay, John Lindsey, B.Sc. Gen. Hons. II., 1951.
 Geddes, Derek Ross, B.A., 1952.
 Geddes, Kenneth Wilfred, Ph.D., 1952.
 Gelder, Frank Pickard, B.Sc. Hons. Chem. III., 1950.
 Gentle, Raymond Leslie, B.A. Hons. Eng. I., 1952.
 Ghali, Aziz Wassif, B.Sc., 1950.
 Ghosh, Barendra Nath, Ph.D., 1950.
 Gibbins, Rachel Elizabeth, LL.B. Hons. II(ii), 1952.
 Gibson, Alfred Bryce, B.Sc. Hons. Geol. I., 1950.
 Gibson, Francis Douglas, M.A., 1951.
 Gibson, John Kenneth, B.Sc. Hon. Elect. Engrg. II., 1951.
 Gibson, Patrick Robin, B.A. Hons. French II(ii), 1952.
 Gibson, Peter Hurst, B.A. Hons. Eng. II(ii), 1952.
 Gifford, Christopher, B.Sc. Hons. Mining Engrg. III., 1951.
 Gilbert, Joseph Alfred, B.A. Hons. Econ. II(ii), 1952.
 Gilbey, Ronald, B.A., 1951.
 Gilchrist, Robert Kenneth, B.Ch.D., 1952.
 Giles, Ronald, B.A. Hons. Econ. II(ii), 1952.
 Gilfillan, William Kenneth, B.A. Hons. Geog. II(ii), 1950.
 Gill, Dennis, B.A., 1950.
 Gill, Margaret June Sutton, B.A. Hons. French II(ii), 1950.
 Gill, William Daniel, D.Sc., 1950.
 Gillery, Frank Howard, B.Sc. Hons. Physics II., 1951.
 Gilmour, Richard Neil, B.A. Hons. Econ. III., 1952.
 Ginty, Bernard Keith, B.Sc. Hons. Elect. Engrg. II., 1952.
 Gittins, Edward Peter Wheldon, B.A. Hons. Spanish III., 1952.
 Gittins, Isabel Mary, B.A. Hons. Eng. II(ii), 1952.
 Gladstone, Margaret Layinka, M.B., Ch.B., 1951.
 Gladwin, Roy Harvey, B.A. (with Hons. in General Studies), 1952.
 Glaisby, Pamela Anne, B.A. Hons. Social Studies II(ii), 1950.
 Gleadall, Geoffrey Edmund, B.Sc., 1951.
 Gledhill, John Trevor, B.Sc. Hons. Electrical Engrg. II., 1951.
 Glick, Eric Nevil, M.B., Ch.B., Hons. II., 1951.
 Glover, Frederick James, B.A. Hons. Econ. II(i), 1952.
 Godman, Herbert Charles, B.Sc. Hons. Geol. III., 1952.
 Godrich, John, Ph.D., 1950.
 Goldthorpe, Nina Ethel, B.A., 1950.
 Gollom, Sidney, LL.B. Hons. III., 1950.
 Goodall, Ralph William, B.Sc., 1952.

- Goode, Charles Douglas, B.Sc. Hons. Civil Engrg. I., 1952.
 Gooder, Emma, B.Sc. Hons. Bacteriology III., 1952.
 Gooderson, Peter Hastings, B.A. Hons. Hist. II(ii)., 1951.
 Goodship, Kenneth Alwyne, B.Sc., 1951.
 Gordon, Robert Louis, Ph.D., 1950.
 Gore, John Charles, B.A. (with Hons. in General Studies), 1952.
 Gorse, Terrance Bradley, B.A. Hons. Eng. III., 1952.
 Goulden, Ann Martin, B.A., 1950.
 Goulding, Doreen Marjorie, M.B., Ch.B., 1951.
 Gower, Margaret, M.B., Ch.B., 1951.
 Grace, Alan James, B.Sc., 1951.
 Grace, Geoffrey, B.Sc. Hons. Mech. Engrg. II., 1951.
 Grainge, Billy, B.A. Hons. Hist. II(ii)., 1950.
 Grainger, Richard Fraser, B.Ch.D., 1952.
 Grant, Harold John, B.Sc. Hons. Mech. Engrg. III., 1952.
 Granville, Raymond Arthur, B.Sc. Hons. Physics II., 1951.
 Gray, Gilbert, LL.B. Hons. II(ii)., 1952.
 Graystone, Francis, B.Sc. Hons. Maths. II., 1951.
 Graziani, Rene Igor Claude, B.A. Hons. Eng. I, 1951; M.A., 1952.
 Green, Clifford, B.A., 1951.
 Green, Donald Pentney, B.A., 1950.
 Green, Eileen Margaret, B.Sc., 1952.
 Green, Elisabeth Mary, B.A. Hons. Social Studies II(ii)., 1950.
 Green, Harry, B.A. Hons. Geog. II(i)., 1951.
 Green, Margaret Helene, LL.B. Hons. II(ii)., 1950.
 Green, Norman Saville, M.B., Ch.B., 1950.
 Green, William Burton, B.Sc., 1950.
 Greenfield, Norman John Charles, B.A., 1951.
 Greenhalgh, William Kaye, B.Sc. Hons. Chem. Engrg. I., 1952.
 Greenwood, John Russell, B.Sc., 1951.
 Greenwood, William Dawson, B.Sc., 1951.
 Greer, Bernard, B.Sc. Hons. Chem. III., 1950.
 Gregory, Ivan Henry, B.A. Hons. German III., 1952.
 Gregory, Joyce Edith, B.A. Hons. Econ. and Polit. Science II(ii)., 1951.
 Gregson, Philip John, B.A., 1950.
 Greig, Derek John, B.Sc., 1952.
 Greig, Frederick William, B.A. Hons. Econ. and Polit. Science II(i)., 1951.
 Grenshaw, Christopher George, B.Sc., 1950.
 Grice, Michael Allan Kendell, B.Sc., 1952.
 Grice, Peter, B.A. Hons. Eng. II(ii)., 1951.
 Griffiths, Dorothy Anne, Ph.D., 1951.
 Griffiths, John Medwyn, B.A., 1950.
 Griffiths, John Royston, B.A., 1951.
 Griffiths, Sheila Margaret, M.B., Ch.B., 1950.
 Grimes, Hazel Dorothy, B.Sc. Hons. Zoology II., 1952.
 Grimshaw, Zenna Marie, B.A. Hons. French II(ii)., 1950.
 Gridale, Walter Stopforth, B.A., 1951.

- Groom, Roy, B.A. Hons. Eng. II(ii), 1950.
 Groome, Brian Reginald, B.A. Hons. Eng. II(i), 1952.
 Grundy, Michael Edward, Ph.D., 1952.
 Grunzweig, Jan, B.Sc. Hons. Physics II., 1950.
 Guy, Wilfred, Ph.D., 1950.
 Habberjam, Gerald Morley, Ph.D., 1950.
 Hackett, John Charles, B.Sc., 1951.
 Haden, Ian Estwick, B.Sc. Hons. Textile Industries II., 1952.
 Haggerty, Margaret Elizabeth, B.Sc., Gen. Hons. II., 1951.
 Haggith, John William, B.Sc. Hons. Physics I., 1952.
 Haigh, Albert Malcolm, B.Sc., 1950.
 Haigh, Cyril, Ph.D., 1950.
 Haigh, George Frederick, B.Sc., 1951.
 Haigh, John Desmond, M.A., 1950.
 Hainsworth, David, LL.B. Hons. II(i), 1951.
 Haley, Gordon, B.Sc. Hons. Physics II., 1950.
 Haley, Peter Ronald, B.A. Hons. German III., 1950.
 Hall, Adrian Thomas, B.A. Hons. Hist. II(i), 1952.
 Hall, Antony Philip, B.A. Hons. Econ. and Polit. Science II(ii), 1951.
 Hall, John Harold Bown, B.A., 1952.
 Hall, Kathleen Mary, M.A., 1950.
 Hall, Malcolm Stewart, B.Sc., 1950.
 Hall, Pauline, B.Sc., 1951.
 Hall, William, B.Sc., 1952.
 Halliday, John Clifford Walton, B.Com. Hons. II(i), 1952.
 Hallowell, Mary, M.B., Ch.B., 1950.
 Hamilton, Douglas, B.A. (with Hons. in Gen. Studies), 1951.
 Hamilton, Patrick Dennis, B.A. Hons. French II(ii), 1952.
 Hampshire, John Bernard, B.A., 1950.
 Hampson, Albert Graham, B.Sc. Hons. Maths. III., 1950.
 Hamza, Mukhtar, Ph.D., 1951.
 Hanania, George Issa Habib, B.Sc. Hons. Chem. II., 1950.
 Hancock, David Charles, B.A., 1951.
 Handforth, Wilby Jones, B.A., 1950.
 Hanna, Youssif Hanna, M.Com., 1950.
 Hannah, Dorothy Margaret, Ph.D., 1950.
 Hannam, James David, B.Sc., 1952.
 Hanson, Marion, M.B., Ch.B., 1950.
 Hardaker, Joshua Robert, B.Sc., 1950.
 Harding, John Henry, B.A., 1950.
 Hardisty, Douglas, B.Sc. Hons. Textile Industries II., 1952.
 Hardy, David, B.Sc., 1952.
 Hardy, Joan Lawrenson, B.A., 1951.
 Hardy, Nora Mary, B.Sc., 1952.
 Hargreaves, Kenneth, Ph.D., 1950.
 Hargreaves, Lucie Maureen, B.A. Hons. Social Studies II(i), 1951.
 Hargreaves, Peter, B.Sc., 1952.
 Harker, Kenneth Weekes, M.Sc., 1950.

- Harland, John Robert, B.Sc., 1952.
 Haroutunian, Shahan, B.Sc., 1952.
 Harper, Ernest Geoffrey, B.Sc. Hons. Maths. III., 1950.
 Harper, Joan Mary, B.A. Hons. Geog. III., 1952.
 Harrand, James Ian, B.A., Hons. Geog. III., 1951.
 Harris, Mary, B.Sc., 1950.
 Harris, Pamela, B.Sc., 1952.
 Harris, Raymond John, B.A., 1951.
 Harris, Ronald, M.D., 1951.
 Harrison, Arthur, B.Sc. Hons. Mining Engrg. III., 1951.
 Harrison, Barbara, B.A. Hons. Geog. III., 1950.
 Harrison, Dennis Arthur, B.Sc., 1952.
 Harrison, Ernest Spencer, B.A. Hons. Geog. II(ii), 1951.
 Harrison, Frederick William, B.Sc. Hons. Physics II., 1950.
 Harrison, Ian Robert, B.Sc. Hons. Zoology II., 1951.
 Harrison, James Geoffrey, B.Sc. Hons. Civil Engrg. III., 1950.
 Harrison, Patricia Muriel, B.A. Hons. Eng. II(i), 1952.
 Harrison, Philip Tennant, B.Sc., 1952.
 Harrison, Trevor, B.A., 1951.
 Harrison-Osborne, David, B.Sc., 1951.
 Hartley, Brian Selby, Ph.D., 1952.
 Hartley, Eric, B.Sc. Hons. Textile Industries II., 1952.
 Hartley, Thomas Nevil, B.Sc., 1950.
 Harvey, Enid (Mrs. Atkins), M.B., Ch.B., 1951.
 Haste, Mary Elizabeth, B.A. Hons. Eng. II(ii), 1951.
 Hatch, George Andrew, B.A., 1951.
 Haw, David William Martin, M.B., Ch.B., 1951.
 Haw, Marjorie Elise, M.B., Ch.B., 1950.
 Hawkes, Herbert Aubrey, M.Sc., 1950.
 Hawkins, Alfred Gordon, B.Sc. Hons. Physics III., 1951.
 Hawkins, Ruth Champion, B.Sc. Gen. Hons. III., 1951.
 Haworth, Alice Rosemary, B.A. Hons. Social Studies III., 1951.
 Haworth, John Vernon Stewart, B.Com. Hons. II(ii), 1950.
 Haworth, Joyce, M.A., 1950.
 Hayes, Kenneth, B.Sc. Hons. Mech. Engrg. III., 1951.
 Hayton, John Cuthbert, B.Sc. Hons. Civil Engrg. III., 1951.
 Hayward, Barbara Joan, B.Sc. Gen. Hons. III., 1952.
 Heath, Edgar Thomas, M.B., Ch.B., 1950.
 Heaton, John Brian, B.A. Hons. Eng. II(ii), 1952.
 Heaton, Maureen Bruce, B.A. Hons. Social Studies II(i), 1951.
 Hebblethwaite, Jean, B.A., 1951.
 Hedley, John Rutherford, B.A. Hons. Hist. II(ii), 1951.
 Hedley, Roderick Burnett, B.Sc., 1952.
 Heggs, Thomas Geoffrey, B.Sc. Hons. Chem. I., 1951.
 Hemingway, George David Teale, B.Sc., 1951.
 Hemingway, Leonard George, B.Sc., 1950.
 Hemingway, Reginald Gordon, M.Sc., 1952.
 Heppell, Elizabeth Eleanor, B.A. Hons. Social Studies II(ii),
 1952.
 Hepworth, Michael Edward, B.A. Hons. Geog. II(i), 1951.

- Herbert, Mollie Deborah, M.A., 1950.
 Herbert, Ronald Foster, B.Sc., 1952.
 Heslop, John, B.Sc. Hons. Metallurgy II., 1952.
 Hessayon, David Gerald, B.Sc. Hons. Botany I., 1950.
 Heu, Christoph Joseph Leopold, B.A. Hons. German II(ii), 1950.
 Hewetson, Patricia Mary, B.A. Hons. Geog. II(i), 1951.
 Hey, Leslie, B.A. Hons. Econ. and Polit. Science II(ii), 1950.
 Hey, Peter, Ph.D., 1952.
 Heywood, George Neville, B.Sc., 1951; Hons. Bacteriology II., 1952.
 Heywood, Peter Andrew, B.A. Hons. Eng. II(i), 1951.
 Hick, Colin Wightman, LL.B. Hons. III., 1952.
 Hicklenton, Brian Stuart, B.Sc. Hons. Civil Engrg. I., 1952.
 Higgins, James Stephen, B.Sc., 1951.
 Higginson, Gordon Robert, B.Sc. Hons. Mech. Engrg. I., 1950.
 Hill, Barry Lawrence, LL.B. Hons. III., 1950.
 Hill, Donald Morrison, B.A. Hons. Eng. I., 1952.
 Hill, John Brian, B.Sc., 1952.
 Hill, Norman Ernest, B.Sc., 1951.
 Hill, Patricia, B.A. Hons. Social Studies II(i), 1950.
 Hilton, John Hartley, B.Sc. Gen. Hons. II., 1951.
 Hilton, Tom Stanley Arthur, B.A., 1950.
 Hinchliffe, Charles, LL.B., 1950.
 Hinchliffe, Derrick, B.A. Hons. Geog. II(i), 1950.
 Hinchliffe, Neville William, B.Sc., 1950.
 Hinchliffe, Ronald, B.Sc., 1950.
 Hindley, Reginald, B.A. Hons. Geog. I., 1950; M.A. (*with distinction*), 1952.
 Hinton, Harry Richard, M.Sc. (*with distinction*), 1950.
 Hird, Joseph Henry, Ph.D., 1951.
 Hirst, John Michael, M.B., Ch.B., 1950.
 Hirst, Noel, M.Ed., 1952.
 Hoare, Derrick Ernest, Ph.D., 1951.
 Hobbs, Peter Major, B.A. Hons. Hist. II(ii), 1951.
 Hodge, Valerie Margot Dorothy, B.A. Hons. Spanish III., 1951.
 Hodges, Margaret, B.A., 1950.
 Hodges, Walter Albert, B.A. Hons. Eng. II(ii), 1951.
 Hodgkinson, Albert, B.Sc. Hons. Biochemistry II., 1951.
 Hodgkinson, John Keith, B.Com. Hons. III., 1951.
 Hodgson, Barbara Jane, B.Sc., 1950.
 Hodgson, Derek Raymond, B.Sc., 1950.
 Hodgson, Douglas Martin, B.Sc., 1952.
 Hodgson, Geoffrey Howard, B.Sc. Hons. Chem. III., 1950.
 Hodgson, Gordon Wilson, LL.B. Hons. III., 1950.
 Hoggett, Michael Francis Scotson, B.A., 1951.
 Holdsworth, Eric Spencer, Ph.D., 1950.
 Holland, Isobel Patricia, LL.B. Hons. II(i), 1951.
 Holliday, Alan Randolph, B.A., 1952.
 Hollingworth, Marie, B.A. Hons. Eng. II(ii), 1950.

- Hollingworth, Norman Wilfred, B.Sc. Hons. Chem. III., 1951.
 Holman, Roy Leslie, M.B., Ch.B., 1952.
 Holmes, George Ronald, B.A., 1952.
 Holmes, Malcolm, B.Sc. Hons. Civil Engrg. I., 1950.
 Holmes, Robert Lewis, M.B., Ch.B., Hons. II., 1951.
 Holroyd, Elaine, B.A. Hons. Eng. II(ii), 1950.
 Holt, John, B.Sc. Hons. Civil Engrg. I., 1951.
 Holt, William, B.Sc., 1952.
 Holti, Mrs. (see Elmer, Gillian Angela Zoë).
 Holti, Gunter, M.B., Ch.B., 1952.
 Holton, Moira June, B.A. Hons. Eng. II(ii), 1951.
 Hood, Raymond, B.Sc., 1952.
 Hoole, William, B.Sc., 1951.
 Hooton, George Lionel Vivian, M.A., 1950.
 Hopkinson, Francis, B.A. Hons. French II(ii), 1950.
 Hopwood, Roy, B.Sc., 1950.
 Horn, Peter Edwin, B.Sc. Gen. Hons. II., 1952.
 Hornsey, Geoffrey, LL.M., 1951.
 Horsell, Martin Peter, B.Com. Hons. II(ii), 1952.
 Horsley, Ronald Michael, Ph.D., 1951.
 Horton, John Ward, B.A., 1950.
 Hough, John Ewart Temple, B.A. Hons. Social Studies I., 1952.
 Hoult, William, B.Sc. Hons. Mech. Engrg. II., 1951.
 Houston, Finbarr Celestine, B.A. Hons. French II(i), 1951.
 Houtby, David Keith, B.Sc. Hons. Chem. Engrg. II., 1951.
 Howard, Alan Drake, B.Sc., 1952.
 Howard, John, B.A., 1952.
 Howard, Keith, B.Sc. Hons. Mining Engrg. I., 1952.
 Howard, Peter, Ph.D., 1952.
 Howarth, Alan Thomas, Ph.D., 1951.
 Howes, John Gordon Bernard, B.Sc. Hons. Chem. II., 1951.
 Howitt, Alan John, B.A., 1950.
 Howker, Fred Gerald, B.A. Hons. Hist. II(ii), 1951.
 Hubbard, Eustace Harvey, B.Sc. Hons. Fuel and Met. III., 1951.
 Hubbard, Mrs. (see Hull, Joyce Margaret).
 Hubbard, Terence Philip, B.Sc. Hons. Mech. Engrg. III., 1950.
 Huck, Michael John, B.Sc., 1951.
 Hudson, William Bradley, B.A. Hons. Social Studies II(i), 1951.
 Huffer, Arthur William, B.Com. Hons. II(ii), 1950.
 Hughes, Gillian Marcia, B.A., 1950.
 Hughes, Gruffydd, B.Com. Hons. III., 1950.
 Huitson, Alan, B.Sc. Hons. Maths. I., 1951.
 Hull, Joyce Margaret (Mrs. Hubbard), B.Sc., 1950.
 Hunt, Charles William, M.Sc., 1952.
 Hunt, Derrick Benjamin, B.Sc., 1950.
 Hunt, George Ernest, B.Sc., 1952.
 Hunt, Leslie James, B.A., 1950.
 Hunt, Margaret Ethel, B.Sc. Hons. Physics III., 1950.
 Hunter, Anne Margaret, B.A. Hons. Social Studies II(ii), 1952.
 Hunter, Gordon Leonard, B.Sc. Hons. Elect. Engrg. III., 1951.

- Hunter, Kenneth, B.Sc., Hons. Physics I., 1950.
Hurst, John Ronald, B.Sc., 1952.
Husein, Hasan Mohammed, Ph.D., 1951.
Husselby, Jack Kenneth, B.Sc. Hons. Chem. of Leather Manufacture II., 1951.
Hutchings, Sheila Margaret, B.A. Hons. Eng. II(ii), 1952.
Hutchinson, Brian Robert Galt, M.B., Ch.B., 1950.
Hutchinson, Mary, B.A., 1950.
Hyde, John Edmund, B.A. Hons. Geog. II(ii), 1950.
Hyde, Margaret, M.B., Ch.B., 1950.
Hyde, Norman Douglas, B.Sc. Hons. Elect. Engrg. III., 1951.
Ibbeson, Donald Basil, B.A., 1950.
Iliff, Thelma Dorothy, B.A. Hons. German II(i), 1952.
Illingworth, Bernard James, B.A., 1951.
Illingworth, David William, B.Sc., 1952.
Illingworth, Eric, Ph.D., 1952.
Ilmen, Mehmet Erdem, B.Sc., 1950.
Isley, James Malcolm, B.Sc., 1951.
Ind, Marjorie Olive, Ph.D., 1950.
Inebnit, Colette Marianne Luce Ellen, M.B., Ch.B., 1950.
Ingham, Albert Arthur, M.Ed., 1950.
Ingham, Hylda Patricia, B.A. Hons. Mod. Langs. II(i), 1950.
Ingram, Pamela Rosemary, B.A., 1951.
Inman, Eric Richard, B.Sc. Hons. Col. Chem. II., 1951.
Inman, Maurice Charles, B.Sc. Hons. Chem. II., 1951.
Inman, Raymond, B.A., 1951.
Ireland, Roland, B.Com., 1951.
Irvine, Dennis Horace, B.Sc. Hons. Chem. I., 1950.
Irvine, Ronald Aliston, M.B., Ch.B., Hons. II., 1952.
Irving, Laurence Trevor, B.A., 1952.
Isles, Geoffrey Lacy, Ph.D., 1951.
Israelstam, Samuel Joshua, B.A., 1950.
Jack, Harry Ross Scarlett, Ph.D., 1950.
Jack, Mavis Beatrice, LL.B. Hons. II(ii), 1951.
Jackman, James, B.Sc. Hons. Chem. of Leather Manufacture, I. 1952.
Jackson, Brian, B.Sc. Hons. Gas Engrg. I., 1950.
Jackson, John Michael, B.Sc. Hons. Civil Engrg. II., 1952.
Jackson, Neil, B.Sc. Hons. Civil Engrg. I., 1951.
Jackson, Norman Frank, B.Sc. Hons. Chem. III., 1952.
Jackson, Peter Gordon, B.Sc., 1952.
Jackson, Philip, M.Sc., 1950.
Jackson, Roger Harry, M.B., Ch.B., 1952.
Jackson, Thomas Malcolm, B.Sc., 1950.
Jackson, William, B.Sc. with Gen. Hons. II., 1950.
Jacobs, Stanley Arnold, LL.B. Hons. II(ii), 1951.
Jagger, Charles Frederick, B.A., 1950.
Jagger, Lillian Grant, Ph.D., 1952.
Jagger, Peter Lisle, B.Sc., 1951.
Jardine, Donald Johnstone, B.Ch.D., 1951.

- Jarvis, Gerald Henry, LL.B. Hons. I., 1950.
 Jasper, Ronald Claud Dudley, B.D., 1950.
 Jeffery, William Gordon, M.Sc., 1950.
 Jeffrey, George Malcolm, B.Sc. Hons. Physics II., 1951.
 Jeffrey, Stanley, B.Sc. Hons. Col. Chem. I., 1951.
 Tellinek, Susan, B.A., 1950.
 Jennings, Arthur John Derek, B.Sc. Hons. Chem. Engrg. II., 1951.
 Jennings, Joseph Brian, B.Sc. Hons. Zoology I., 1952.
 Jennings, Valerie, B.Sc., 1952.
 Jesper, Anthony Charles, B.Sc., 1950; Hons. Metallurgy III., 1951.
 Jobling, John Keith, B.A., 1950.
 Johns, David Godfrey, B.A. Hons. Spanish III., 1952.
 Johnson, Edward, Ph.D., 1950.
 Johnson, Margaret Helen, B.A., 1950.
 Johnston, David, B.Sc., 1952.
 Johnston, Joseph Bower, B.Sc. Hons. Chem. of Leather Manufacture II., 1950.
 Johnston, Robert Atkinson, B.Sc. Hons. Physics III., 1952.
 Jolleys, Katharine Mary, B.A. Hons. French II(ii), 1952.
 Jones, Alwyn Humphrey Griffith, B.Sc. Hons. Chem. III., 1951.
 Jones, Audrey Elizabeth Holden, B.A. Hons. Social Studies II(ii), 1952.
 Jones, Bernard, B.A. Hons. Eng. II(i), 1951.
 Jones, David Anthony, B.A. Hons. Geog. II(ii), 1951.
 Jones, Donald, M.A., 1950.
 Jones, Francis, B.A. Hons. French II(i), 1951.
 Jones, James Michael, B.Sc., 1950.
 Jones, June Iris, B.Sc. Gen. Hons. III., 1951.
 Jones, Kenneth Hern, B.A. Hons. Spanish III., 1952.
 Jones, Raymond Morgan, B.A., 1950.
 Jones, Sheila Mary, B.A., 1951.
 Jones, Thomas Elwyn, B.A., 1950.
 Jones, Wallace, B.Sc., 1951.
 Jones, William Eric, M.A., 1950.
 Jordan, Thompson Cyril, B.Sc., 1950.
 Jowett, Alan, Ph.D., 1950.
 Kastell, Richard Alan, B.Sc. Hons. Maths. III., 1951.
 Kay, Peter Anthony, B.Ch.D., 1950.
 Kaye, Clive, B.A. Hons. Econ. II(ii), 1952.
 Kealey, David Norman, B.Sc. Hon. Civil Engrg. III, 1950.
 Kean, John Herbert, B.Com., 1951.
 Kellett, David, LL.B., 1952.
 Kelly, Alexander, M.A., 1951.
 Kelly, Deryk Twibell, B.Sc., 1950.
 Kemp, John McLaren Elliott, B.A., 1951.
 Kendall, Barbara Mary, B.Sc., 1951.
 Kennedy, John, B.Sc. Hons. Elect. Engrg. I., 1951.
 Kennedy, Richard, B.Sc., 1951.
 Kenny, Philip, B.A. Hons. Geog. II(i), 1951.

- Kenyon, Thomas Procter, B.Sc., 1951.
 Kettlewell, Donald Arthur Hedley, B.A., 1951.
 Kettlewell, Frederick John, B.Com. Hons. II(ii), 1952.
 Kewley, Norma, B.Sc. Hons. Physics II., 1951.
 Keyte, Ronald Frederick, B.Sc., 1950.
 Khera, Krishna, M.Sc., 1950.
 Khera, Mahendra Parkash, Ph.D., 1950.
 Khoury, Freddy, B.Sc., 1952.
 Kidson, John Gordon, B.Sc. Hons. Civil Engrg. I., 1951.
 Killeen, John Paul, B.A. Hons. Eng. II(i), 1952.
 Kilner, Peter Howard Sydney, B.Sc. Hons. Chem. Engrg. II., 1951.
 King, Edward Joseph, B.A., 1950.
 King, Eileen Mary, M.B., Ch.B., 1951.
 King, Mary Joyce (Mrs. Watton), M.B., Ch.B., 1951.
 King, Monica Mary, B.A. Hons. French II(ii), 1950.
 King, William Eric Howard, B.Sc., 1952.
 Kingham, Charles, B.A. Hons. Eng. II(i), 1951; M.A., 1952.
 Kingston, Derek, B.Sc. Hons. Civil Engrg. III., 1952.
 Kirby, Alan Robert, B.A. (*with distinction*), 1952.
 Kirby, Colin Stephen, B.A. Hons. Econ. and Polit. Science III., 1951.
 Kirby, John Patrick, B.A., 1950.
 Kirk, John Edward Spencer, B.A. Hon. French II(i), 1952.
 Kitchen, Trevor, B.Sc., 1951.
 Kitching, Neil Hamilton, M.B., Ch.B., 1951.
 Knight, Peter Ernest, B.Sc. Hons. Agricultural Studies II., 1952.
 Knobil, Evelyn Ruth, B.Sc., 1952.
 Kubinski, Zbigniew, M.A., 1952.
 Lamb, Derek William, B.Sc., 1952.
 Lambert, Frank Green, B.Sc., 1950.
 Lambert, Lincoln Arthur, B.Sc. Hons. Civil Engrg. III., 1951.
 Lambert, Margaret Mary, B.A. Hons. Eng. II(i), 1950.
 Lancefield, Arthur George, B.A. Hons. Econ. and Polit. Science II (ii), 1950.
 Lanch, Harry, B.A. Hons. Hist. III., 1951.
 Landells, George, Ph.D., 1950.
 Landon, Wreford Ewart, B.Sc. Hons. Chem. III., 1952.
 Lane, Michael Richard, B.Sc. Hons. Chem. II., 1950.
 Lang, Charles Treble, B.A., 1951.
 Langford, Tom, M.B., Ch.B., 1952.
 Langton, Leonard, M.D., 1950.
 Larner, Brian Watford, Ph.D., 1950.
 Latham, Reginald, B.A. Hons. Geog. II(ii), 1952.
 Laverack, Jack, B.Sc., 1951.
 Law, John Kenneth, B.A. Hons. German III., 1952.
 Lawrence, John Gordon, B.A. Hons. Philos. III., 1950.
 Lawrenson, Mary Emily, B.Sc. Hons. Physics II., 1950.
 Lawson, David Furman, B.Sc. Hons. Mining Engrg. II., 1951.
 Lawson, James Arthur, M.A., 1952.

- Lawson, Peter, B.Com. Hons. II(ii), 1951.
 Leach, Mary Margaret, B.Sc., 1951.
 Leadley, John Martin, M.B., Ch.B., 1952.
 Leathley, John Alwyn, B.Sc. Hons. Textile Industries II., 1952.
 Leckie, Marion Isabel McGregor, B.Sc. Hons. Physics III., 1952.
 Lee, Anne Florence, B.Sc., 1950.
 Lee, Bernard Stanley, B.A., 1951.
 Lee, Denis, Ph.D., 1952.
 Lee, Joe, B.Sc. Hons. Chem. II., 1951.
 Lee, Margaret Smith, M.B., Ch.B., 1951.
 Leedal, Geoffrey Philip, Ph.D., 1950.
 Leeming, Peter, B.A., 1950.
 Lees, Charles Norman, LL.B. Hons. II(i), 1950.
 Leete, Edward, Ph.D., 1950.
 Leggott, George Fraser, B.Sc., 1951.
 Leigh, Lionel Howard, LL.M., 1951.
 Lenton, Aylmer Ingram, Ph.D., 1951.
 Leonard, Samuel, B.Sc., 1951.
 Lester, Derek, B.A. Hons. Mod. Langs. III., 1951.
 Le Sueur, John Philip, B.A., 1951.
 Lever, Raymond Arthur, B.A. Hons. Eng. II(ii), 1950.
 Levin, Albert Harvey, B.Sc. Hons. Textile Indus. III., 1950.
 Levin, Shirley (Mrs. H. M. Michaelson), LL.B. Hons. II(ii), 1950.
 Levin, Hilda May, B.A., 1952.
 Levine, Leon, B.Ch.D., 1952.
 Levine, Sydney, EL.B. Hons. II(ii), 1951.
 Lewis, Brian, B.A. Hons. Latin II(i), 1951.
 Lewis, Mary Rosa, B.Sc. Gen. Hons. III., 1951.
 Lewis, Winston, B.A. Hons. Econ. and Polit. Science II(ii), 1951.
 Liddle, Philip, B.A., 1951.
 Liggett, John Harold, B.A., 1952.
 Lightbown, Gordon, B.A., 1950.
 Lightowler, Joan, B.Sc., 1951.
 Lilley, Bernard Alfred, Ph.D., 1952.
 Linden, Ronald James, M.B., Ch.B. Hons. II., 1951.
 Liney, Ralph Selby, B.Sc., 1950.
 Lishman, John Raymond, B.Sc. Hons. Geol. II., 1951.
 Lister, Geoffrey, B.A., Hons. Social Studies II(ii), 1950.
 Lister, Gordon Hobson, Ph.D., 1950.
 Lister, Muriel, Ph.D., 1950.
 Littlewood, Roy Thomas, B.A. Hons. French III., 1950.
 Living-Taylor, Margaret Brenda, M.B., Ch.B., 1951.
 Lloyd, Janet Margaret, B.A. Hons. Social Studies III., 1952.
 Lockwood, Fred, B.Sc., 1951.
 Lockwood, Peter, M.B., Ch.B., 1951.
 Lockwood, Peter, B.Sc. Hons. Chem. III., 1952.
 Lockyer, John Keith, B.Ch.D., 1951.
 Lodge, Anne Elizabeth Thornton, M.B., Ch.B., 1950.
 Lofthouse, John Douglas, B.Sc., 1951.
 Long, Geoffrey, B.Sc. Hons. Chem. I., 1950.

- Long, Margaret Winifred, B.Sc., 1951.
 Longbone, Norman James, B.A. Hons. Hist. II(ii), 1951.
 Longfield, John Raymond, B.A. Hons. Econ. and Polit. Science II(ii), 1950.
 Lonsdale, Kenneth, B.Sc., 1951.
 Lorand, Laszlo, Ph.D., 1951.
 Lord, Geoffrey William, B.A. Hons. Eng. II(ii), 1951.
 Loudon, Margaret, B.A. Hons. Hist. II(ii), 1951.
 Lovell, Jean, B.A., 1950.
 Lowther, Dennis Arthur, B.Sc. Hons. Biochemistry II., 1951.
 Loy, Edmund Brian Wilson, B.A., 1951.
 Lucas, Clifford Noel Gordon, B.Sc. Hons. Mining Engrg. I., 1950.
 Luckins, John, B.Sc. Hons. Chem. Engrg. II., 1952.
 Ludlam, Leonard Wood, B.A. Hons. Eng. II(i), 1952.
 Lumb, Barbara Mary B.A. Hons. Hist. II(i), 1951.
 Lumb, Robert, B.Sc., 1951.
 Lund, Brian, B.A. Hons. Geog. II(ii), 1952.
 Lund, Ronald Arthur, B.A., 1952.
 Lyall, Gordon Vernon, B.Sc. Gen. Hons. III., 1951.
 Lyles, John, B.Sc., 1950.
 Lynch, Terence, M.B., Ch.B., 1951.
 Lyons, Edward, LL.B. Hons. II(ii), 1951.
 McCormack, Peter James, B.A., 1951.
 McCulloch, Ralph Kearsley, M.Sc., 1950.
 McDerimid, Ernest Michael, B.Sc. Gen. Hons. III., 1951.
 McDonald, Tom, B.Com. Hons. II(i), 1950.
 MacFadyen, Sheila, B.Sc., 1952.
 McGill, Noel Ian Murray, B.Sc. Hons. Civil Engrg. III., 1952.
 McGladdery, Arthur Leonard, B.A., 1950.
 McGrail, Mary Patricia, B.A. Hons. English I., 1952.
 McIntosh, Jean Catherine (Mrs. Thompson), B.A. Hons. Social Studies I., 1950.
 Mackenzie, Margaret Giulia Ord, B.Sc., 1951.
 McKeown, Sarah, B.A. (with Hons. in General Studies), 1952.
 Mackie, Peter, LL.B. Hons. II(ii), 1950.
 McKinnon, Donald Charles, B.Sc., 1951.
 MacLachlan, Ronald Alan, B.Com., 1952.
 MacLean, Sheina Audrey, M.B., Ch.B., 1951.
 MacLennan, William Gregor, B.Sc., 1952.
 McMenemy, Peter Edward, B.Sc., 1950.
 McMillan, Mary, M.B., Ch.B., Hons. II., 1950.
 McMorris, Clive Stuart, B.A., 1950.
 McNair, William Donald, B.Sc. Hons. Physics II., 1952.
 McNaught, Charles William, LL.B., 1952.
 McPherson, Ian James Neil, B.A. Hons. Social Studies II(i), 1952.
 Macer, Donald Sutcliffe, B.Sc. Gen. Hons. II., 1951.
 Machen, Donald, B.A. Hons. German II(i), 1952.
 Mackey, Sean, Ph.D., 1951.
 Mackley, Joyce, B.A. Hons. Social Studies III., 1950.

- Mahabir, Rodney Jules, M.B., Ch.B., 1950.
 Mahoney, James Emmanuel, LL.B. Hons. II(i), 1952.
 Mainman, Edwin Rodney, M.B., Ch.B., 1951.
 Maisey, Roy Frederick, B.Sc. Hons. Col. Chem. I., 1950.
 Maleham, John Dennis, B.Com. Hons. III., 1950.
 Mallinson, Roy, B.Sc. Hons. Chem. II., 1950.
 Mallpress, Ernest Phillip, B.A., 1950.
 Mann, George William, M.Sc., 1950.
 Mann, Peter Henry, B.A. Hons. Social Studies II(i), 1950.
 Manning, Leonard Frederick, LL.B. Hons. II(i), 1950.
 Mantle, Rex, B.A. Hons. Econ. and Polit. Science II(ii), 1951.
 Manwaring, David Brudenell, B.Sc. Hons. Elect. Engrg. I., 1950.
 Marlow, Stanley, B.Sc., 1951; B.Sc. Mining Engrg. I., 1952.
 Marsden, Henry Campbell, B.Sc. Hons. Elect. Engrg. II., 1952.
 Marsden, Philip Law, Ph.D., 1951.
 Marsden, Ruth, B.A. Hons. Geog. III., 1950.
 Marsden, William, B.Sc. Hons. Chem. II., 1950.
 Marshall, Arthur Henry, LL.B. Hons. II(ii), 1951.
 Marshall, John Stanley, LL.B. Hons. II(i), 1950.
 Marshall, Ronald, B.Ch.D. Hons. I., 1950.
 Marshall, Silvia Alison Mary, M.B., Ch.B., 1952.
 Marshall, Sydney Herbert, M.Ed., 1950.
 Martin, Eric Alfred, B.Sc., 1950.
 Martin, John, B.Sc., 1952.
 Martin, Laurence Harold, B.Sc. Hons. Civil Engrg. III., 1952.
 Martin, Monica Harvey, B.A., 1950.
 Mason, Edmund, B.Sc. Hons. Geol. III., 1950.
 Mason, Edward Preston, B.Sc. Gen. Hons. III., 1951.
 Massie, Doreen Slater, Ph.D., 1950.
 Mather, John, B.Sc. Hons. Chem. I., 1952.
 Mathur, Om Prakash, Ph.D., 1951.
 Matthews, Bryan Frank, M.B., Ch.B. Hons. II., 1950.
 Matthews, John Colin, Ph.D., 1952.
 Matthews, Mrs. (see Wallis, Joyce Winstanley).
 Maudsley, James Hodgson, B.Com., 1951.
 Maxcy, George Edwin, M.A., 1951.
 May, Kenneth, B.Sc. Hons. Mech. Engrg. II., 1951.
 May-Miller, Peter, B.A. Hons. French III., 1950.
 Mayhook, Kenneth Robert, B.A. Hons. Philos. II(ii), 1952.
 Maynard, Christopher William, B.Sc. Hons. Maths. III, 1951.
 Meadowcroft, Samuel Christopher, B.Sc., 1951.
 Meal, Peter Frederick, B.Sc. Hons. Geol. III., 1951.
 Meeres, John Reginald, B.D., 1950.
 Melia, Mark, B.A., 1950.
 Mellor, Colin, B.A. Hons. Geog. II(ii), 1951.
 Mellor, John Frederick, B.A. Hons. Geog. II(i), 1952.
 Mellor, John Walter, LL.B. Hons. II(i), 1951.
 Mellor, Lawrence, B.A. Hons. German III., 1951.
 Mellor, Mavis, B.A., 1952.
 Mellor, Pamela, B.A., 1951.

- Mellor, Paul, M.B., Ch.B., 1950.
Mendelsohn, Bertram Gerald, M.B., Ch.B., 1951.
Meredith, Sheila Coward Dornan, Ph.D., 1952.
Merrell, John Stanley, M.B., Ch.B., 1951.
Metcalf, Arnold, B.Sc. Hons. Physics III., 1951.
Metcalf, Frederick Dinsdale, B.A., 1951.
Metcalf, John Sydney, M.B., Ch.B., 1951.
Metcalf, June, B.A. Hons. French III., 1952.
Metcalf, Leonard Douglas, B.Com. Hons. II(i), 1952.
Mettrick, Suzette Maldon, M.B., Ch.B. Hons. II., 1951.
Meynell, James Albert Tarelli, B.A. Hons. Econ. III., 1952.
Michael, Ruth Yvonne, B.Sc., 1952.
Michaelson, Mrs. (see Levin, Shirley).
Middlebrook, Mavis Joan, Ph.D., 1950.
Middlebrook, William Robert, Ph.D., 1950.
Middleton, Connie, B.A. Hons. Eng. II(ii), 1951.
Middleton, Lilian Beryl, B.A. Hons. Social Studies I., 1950.
Midgley, Kenneth, B.A., 1951.
Midgley, Kenneth Norman, B.A., 1952.
Milburn, James Leslie, B.Sc., Hons. Chem. II., 1951.
Milburn, Mrs. (see Speakman, Alison Barbara).
Miles, Doreen Stella, B.A. Hons. French-Latin II(i), 1951.
Miles, Ruth, B.Sc. with Gen. Hons. II., 1950.
Miller, Alec John, B.Sc. Hons. Mining Engrg. II., 1952.
Miller, Beatrice, B.Sc., 1951.
Miller, Dennis Harold, M.B., Ch.B., 1951.
Miller, Hilda Mary, B.Com., 1951.
Millman, Edward Wilfred, B.Sc., 1952.
Mills, David Quinlan, LL.B. Hons. II(ii), 1952.
Mills, John Stuart, B.Sc. Gen. Hons. II., 1952.
Milnes, Charles, B.Sc. Hons. Agricultural Studies II., 1952.
Milnes, Donald Sims, B.Sc. Hons. Gas Engrg. I., 1950.
Milnes, Miles Rodney, B.Sc. Hons. Civil Engrg. II., 1951.
Minson, Dorothy, B.A. Hons. Eng. II(i), 1952.
Mitchell, John Philip, M.Sc., 1950.
Mitchell, Joyce, B.A., 1950.
Mitton, George Geoffrey, B.A., 1950.
Mohamed, Tengku Ngah, B.A., 1950.
Moisley, Henry Alan, M.Sc., 1950.
Monaghan, Peter, B.A., 1951.
Moody, Frederick William, M.A. (*with distinction*), 1950.
Moody, Philip Overton, B.A. Hons. Econ. and Polit. Science II (ii), 1950.
Moore, Derek, B.Sc. Hons. Geol. I., 1952.
Moore, Derek Stanley, B.Sc. Hons. Elect. Engrg. II., 1951.
Moore, John Christopher Martin, B.A. Hons. Geog. III., 1952.
Moorhouse, Doreen, M.B., Ch.B., 1951.
More, John Walter, B.Sc. Hons. Chem. II., 1950.
Morfitt, John Mather, M.B., Ch.B., 1952.
Morgan, Ancel Donald, B.Sc. Hons. Civil Engrg. III., 1951.

- Morgan, Gwynneth Elizabeth, B.A., 1950.
 Morley, Neil Anderson, B.A. Hons. Eng. II(i), 1952.
 Morris, David Vernon, B.A., 1952.
 Morris, Kenneth Edward, B.A., 1950.
 Morris, Pamela Rosemary, B.A., 1950.
 Morton, Edward, B.A., 1951.
 Morton, Edward, M.B., Ch.B., 1951.
 Morton, Leslie James, M.Sc., 1952.
 Moscovici, William, B.Sc. Hons. Col. Chem. II., 1950.
 Mosiewicz, Jan, B.Sc. Hons. Chem. of Leather Manufacture II., 1950.
 Mosley, Peter, B.Sc., 1950 ; Hons. Text. Industries I., 1951.
 Moss, Peter, B.A. Hons. Econ. and Polit. Science III., 1951.
 Moss, Peter Geoffrey, B.Sc., 1952.
 Mount, Kenneth David, B.A. Hons. Hist. II(ii), 1950.
 Moxon, Ronald Herbert, B.Sc., 1952.
 Mukherjee, Sourindra Mohan, Ph.D., 1951.
 Mulhim, Mohammad Haj Ayyash, LL.M., 1950.
 Mullen, Thomas Close, B.Sc. Hons. Chem. of Leather Manufacture II., 1951.
 Mulvaney, John Edward, B.Sc., Hons. Elect. Engrg. I., 1951.
 Mumtaz, Amin Begum, M.A., 1950.
 Muncey, Derek Thomas, B.A. Hons. Eng. II(ii), 1951.
 Munksgaard, Jens Jorgen, B.Com. Hons. II(ii), 1952.
 Murden, Henrik John Bernard, B.A., 1952.
 Murgatroyd, Jack, B.Ch.D., Hons. II., 1952.
 Murphy, Paula Cecilia, B.A. Hons. French II(ii), 1950.
 Murphy, Richard Denis, B.A. Hons. Hist. II(i), 1951.
 Murphy, Shelagh Margaret, B.A. Hons. Eng. II(ii), 1951.
 Murray-Williams, Gwenda, B.A. Hons. Social Studies II(i), 1952.
 Myatt, James Kenneth, B.Sc. Hons. Chem. III., 1950.
 Nanavati, Chandravadan Mohanlal, M.Sc., 1950.
 Nangle, John Benedict, B.Sc. Hons. Mining Engrg. I., 1952.
 Nathan-Marsh, Oladisun, LL.B. Hons. III., 1951.
 Natrass, Robert, B.Sc., 1950.
 Naylor, Harry, B.Sc. Hons. Mech. Engrg. II., 1951.
 Naylor, Kenneth Arthur, M.B., Ch.B., 1950.
 Neal, Ruth Elaine, M.B., Ch.B., 1951.
 Neale, Alan Jeffrey, B.Sc., Hon. Chem. I., 1951.
 Needham, Donald, B.Sc. Hons. Mech. Engrg. II., 1951.
 Neill, John B.Sc. Hons. Elect. Engrg. III., 1951.
 Nelson, Donald Irving, B.A. Hons. Eng. II(ii), 1950.
 Newbold, Josephine Alice, B.A., 1952.
 Newby, William Turner, B.A. Hons. Eng. II(ii), 1950.
 Newell, Christopher Martin, B.Sc., 1951.
 Newhouse, Vernon Leopold, Ph.D., 1952.
 Newman, Arnold, M.A., 1951.
 Newton, Gerald, B.Sc., 1952.
 Newton, Ronald, B.Sc. Hons. Civil Engrg. III., 1950.
 Newton, Thomas Leslie, B.A., 1952.

- Nicholls, Roy, B.Mus., 1950.
 Nicholson, Arthur, B.Sc., 1950.
 Nicholson, Basil John, B.Sc. Gen. Hons. II., 1951.
 Nicholson, George Anthony Sykes, B.A. Hons. Spanish II(i), 1950.
 Nicol, David Hamilton, B.A. Hons. Geog. II(ii), 1950.
 Nilssen, Sven, B.Sc., 1952.
 Niven, Ninian Charles, B.A., 1951.
 Nixon, Donald Watson, B.A. Hons. Hist. II(i), 1951.
 Nixon, Gerald Keith, M.B., Ch.B., 1951.
 Nixon, Kathleen Rima, B.Sc. (*Aegrotat*), 1951.
 Nolan, Terence, B.A. Hons. French III., 1950.
 Norris, Jean Rosemary, B.A. Hons. Social Studies I., 1951.
 Norris, Lorna Bradley, B.A. Hons. Social Studies III., 1952.
 North, John Bryan Cousen, B.A., 1951.
 Norton, Harold John, B.A., 1950.
 Norwood, Charles Lester, B.Sc., 1950.
 Norwood, Donald Anthony, M.Sc., 1952.
 Noton, John, B.A. Hons. Econ. and Polit. Science II(ii), 1951.
 Nugent, Anthony, M.B., Ch.B., 1950.
 Nunns, Arnold, B.Com. Hons. (*Aegrotat*), 1950.
 Nutter, Donald, B.A. Hons. Econ. and Polit. Science II(ii), 1950.
 Nutter, Geoffrey, M.Sc., 1950.
 Nyman, Harvey Leonard, B.Sc. Hons. Textile Industries II., 1952.
 Oakes, Olive Dorothy (Mrs. Dougherty), B.A. Hons. Spanish III., 1950.
 Oakland, William Hargreaves, B.Sc. Hons. Maths. II., 1952.
 Oates, Stanley Benjamin Fred, B.Com., 1950.
 Ogilvie, Graeme John, Ph.D., 1951.
 Oldroyd, Herbert Eric, B.Sc., 1951.
 O'Meara, Margaret, B.Sc., 1951.
 Orbaum, Eric Jack, LL.B. Hons. II(i), 1950.
 Orr, Muriel, B.Sc. Hons. Maths. III., 1951.
 Orton, Francis John, B.Sc. Hons. Agricultural Studies II., 1952.
 Osborne, Harold Stanley, B.A., 1950.
 Oshinibi, Ayotunde Olatunde, B.A. Hons. Econs. II(ii), 1952.
 Otty, William, B.Sc. Hons. Mech. Engrg. III., 1951.
 Oughton, Beryl Mary, Ph.D., 1950.
 Overington, Ian, B.Sc., 1952.
 Owen, Marian Mererid, B.A. Hons. Eng. II(i), 1951.
 Padget, Peter, M.Sc., 1950.
 Padgham, Molly, B.Sc. Hons. Physics II., 1951.
 Paget, David Michael, B.Sc. Hons. Civil Engrg. I., 1950.
 Paley, Ronald Geoffrey, Ph.D., 1950.
 Palin, Geoffrey, B.A., 1952.
 Paling, Douglas John, B.Mus., 1952.
 Palka, Jan Tadeusz, B.Sc., 1952.
 Pantzaris, Theophanis Petrou, B.Sc., 1950.

- Papp, Guido, B.Sc., 1952.
 Parker, Alan Scott, B.Sc. Hons. Civil Engrg. II., 1950; M.Sc., 1951.
 Parker, Charles David, B.Ch.D. Hons. II., 1952.
 Parker, Hermon, B.A., 1951.
 Parker, Leonard, B.A. Hons. French III., 1952.
 Parker, Maurice, B.Ch.D., 1951.
 Parker, Sheila Joan, M.B., Ch.B., 1951.
 Parkes, David John, B.Sc. Hons. Physics II., 1952.
 Parkin, Stanley Ian Johnson, B.Sc., 1951.
 Parkinson, Joseph Ernest, B.A. (with Hons. in General Studies), 1952.
 Parr, Elizabeth Ruth, B.A. Hons. French II(ii), 1950.
 Parslow, June Rosemary, B.A. Hons. Social Studies II(ii), 1951.
 Parsons, John Edward, B.A. Hons. Econ. and Polit. Science II(ii), 1951.
 Parsons, Shirley Winifred, LL.B. Hons. II(i), 1951.
 Pateman, Edward Brian, B.A., 1951.
 Pater-Lancucki, Witold Jan, M.Sc., 1951.
 Patterson, Donald, B.Sc., 1951.
 Patterson, George William Rowland, B.Sc. Hons. Elect. Engrg. III., 1951.
 Patyk, Henryk Wladyslaw, B.Com., 1951.
 Paulin, Douglas Medcalf, M.A., 1951.
 Payne, Jack, M.A., 1950.
 Peace, Anthony Graham, Ph.D., 1952.
 Peacock, Albert John, B.Sc. Hons. Elect. Engrg. II., 1951.
 Peacock, John, B.Sc. Hons. Chem. II., 1950.
 Pearce, Florence Mary, B.A. Hons. Eng. II(ii), 1952.
 Pearce, Harold, B.A. Hons. Eng. I., 1950.
 Pearson, Arthur George Greenwood, B.Sc., 1951.
 Pearson, Geoffrey Alan, B.A., 1950.
 Pearson, James Peter, B.A., 1950.
 Pearson, Ronald Ferguson, B.Sc. Hons. Physics I., 1951.
 Peckett, Robert Cornforth, B.Sc. Gen. Hons. I., 1951.
 Pengelly, Alan Ernest Shelley, B.Sc. Hons. Physics III., 1951.
 Penny, Margaret Elizabeth, M.B., Ch.B., 1950.
 Percival, Carrie Louisa Winifred, B.Sc., 1950.
 Percival, Walter Keith, B.A. Hons. German II(i), 1951.
 Perfect, John Richard Wade, B.Sc. Hons. Col. Chem. II., 1950.
 Perkins, James Howard, B.Sc., 1952.
 Peryman, Roland Verney, Ph.D., 1952.
 Peters, Leo, Ph.D., 1950.
 Petty, Ronnie, B.Sc. Hons. Chem. III., 1951.
 Pexton, Frank William, B.Sc. Hons. Col. Chem. II., 1950.
 Phealon, Patrick Ronald, B.Sc., 1952.
 Phelps, Gerald Eaton, B.Sc. Hons. Civil Engrg. III., 1952.
 Phillips, George, B.A. Hons. French II(ii), 1950.
 Pickard, Cecil, M.D., 1952.
 Pickard, Joyce Rhodes, B.A. (with Hons. in General Studies), 1952.

- Picken, Derrick Bernard, B.Sc. Hons. Geol. II., 1950.
Pickering, Donald Carrick, B.Sc. Hons. Agricultural Studies II., 1952.
Pickett, Jean Mary, B.A., 1952.
Pickles, Hilary Mira Josephine, B.Com., 1950.
Pike, Roy George, B.A., 1950.
Pilley, Bruce Ian, B.A. Hons. Econ. and Polit. Science II(ii), 1951.
Pilsworth, Alwyne, B.Sc., 1951.
Pinder, Philip Clive, B.Sc., Hons. Chem. Engrg. II., 1952.
Pinkney, Alexander, B.A., 1951.
Pisanti, Albert, B.Sc., 1951.
Pitt, Colin George, B.A. Hons. Econ. III., 1952.
Platt, Brenda, B.A. Hons. Social Studies III., 1950.
Platt, Kenneth, B.A. Hons. French II(i), 1951.
Platten, Peter William, B.Sc., 1952.
Pleasance, Geoffrey, B.Sc. Hons. Chem. III., 1951.
Pollock, Alan George, B.Sc., 1951.
Ponton, Betty Mabel Annie (Mrs. Delvin), M.B., Ch.B., 1951.
Poole, Brian Dickenson, B.A. Hons. Eng. II(ii), 1951.
Poole, Margaret Clare, B.A. Hons. Social Studies II(ii), 1951.
Poppewell, George Rowland, B.Sc., 1951.
Porter, John Moser, B.Sc. Hons. Metallurgy II., 1952.
Potts, Jean Elspeth, B.A., 1952.
Potts, Eric, B.Sc. Hons. Gas Engrg. I., 1950.
Potts, Sheila, B.A. Hons. Social Studies II(ii), 1952.
Powell, George Geoffrey, B.Sc., 1950.
Powell, Harry, B.Sc. Gen. Hons. II., 1951.
Powell, Joyce Hilary, B.A., 1951.
Powell, Margaret Ruth, B.A. Hons. Social Studies III., 1951.
Powell, Thomas Paul Stansfield, M.B., Ch.B., 1950.
Pratt, Antony, B.A. Hons. Eng. II(i), 1952.
Pratt, David, B.Sc. Hons. Anatomy I., 1951.
Pratt, Tom Michael, B.Mus., 1952.
Preger, Susan Felicia, B.Sc., 1950.
Preston, Bernard, B.A. Hons. Econ. and Polit. Science III., 1950.
Preston, Kenneth, B.Sc., 1952.
Preston, Ronald, B.Sc. Hons. Chem. II., 1951.
Price, Charles Antony, M.B., Ch.B., 1952.
Price, Gilbert, B.Sc., 1950.
Price, Stanley Adrian, M.B., Ch.B., 1951.
Price, William Tudor, B.A. Hons. Hist. II(ii), 1952.
Pridmore, Gordon Oxley, B.A., 1950.
Priest, Arthur Richard Raymond, B.Sc. Hons. Colour Chem. II., 1952.
Prince, Eric, B.Sc., 1950.
Pritchett, Gerald Ralph, M.A., 1950.
Proctor, Lawrence, Ph.D., 1952.
Prooth, Henry, B.Sc., Hons. Chem. of Leather Manufacture I., 1951.
Prooth, Victor Samuel, B.A. Hons. Eng. II(i), 1950; M.A., 1951.

- Pudsey, David Graham, B.Sc. Hons. Elect. Engrg. II., 1950.
 Pullan, Gertrude Mary, M.B., Ch.B., 1950.
 Pullan, Mollie, B.Sc. Gen. Hons. II., 1952.
 Pumford, Vera, B.A., 1952.
 Purcell, Margaret Johanna Imelda, B.Sc., 1951.
 Purvis, Ernest William, B.Sc. Hons. Civil Engrg. II., 1951.
 Pyecroft, Valerie, B.A., 1952.
 Pyrah, Geoffrey Barker, Ph.D., 1952.
 Quested, Derek Ray, B.Sc. Hons. Physics with Elect. Engrg. II., 1950.
 Raafat, Mohamed Nessim, Ph.D., 1952.
 Radcliffe, James, B.A. Hons. Geog. II(ii), 1952.
 Ramsden, Philip, B.A. Hons. Geog. I., 1951.
 Rankin, Cecil, B.A., 1951.
 Raper, Alan Humphrey, B.Sc. Gen. Hons. I., 1951.
 Rayner, John Brian, B.Sc. Hons. Agricultural Studies II., 1952.
 Rayner, Rubie Ann, B.Sc., 1951.
 Readman, Ian William, B.Sc., 1952.
 Record, Eric Harold James, LL.B. Hons. II(i), 1950.
 Redcliffe, Gertrude Mary Teresa, B.A. Hons. German III., 1952.
 Reddiford, Gordon, B.A. Hons. Philos. II(i), 1952.
 Redfearn, Stanley Laxton, B.Sc. Hons. Chem. of Leather Manufacture II., 1950.
 Reid, David Bertram, B.A. Hons. Hist. II(ii), 1951.
 Reid, Thomas Gordon, B.Sc. Hons. Civil Engrg. III., 1950.
 Reisler, Ronald, M.B., Ch.B., 1950.
 Reiss, Ewald, B.Sc., 1952.
 Rennie, Geoffrey Keith, B.Sc., 1950.
 Reuben, Boris, LL.B. Hons. III., 1950.
 Reynolds, Francis David, B.A., 1952.
 Rhodes, Geoffrey William, B.A., Hons. Social Studies II(i), 1952.
 Rhodes, Keith Vernon, B.Mus., 1952.
 Rhymer, Joseph, B.A. Hons. Philos. II(ii), 1952.
 Richardson, Anne, B.Sc. Hons. Maths. III., 1951.
 Richardson, Henry Anthony, LL.B. Hons. II(i), 1950.
 Richardson, John Robert, B.Sc. Hons. Elect. Engrg. II., 1952.
 Richardson, Sheila Edith, B.Sc., 1951.
 Riddell, John Anthony, B.Sc., 1950.
 Riggott, Pauline Mary, B.A., 1950.
 Rigley, Thomas, M.A., 1951.
 Riley, Derek Henry, B.Sc. Hons. Agricultural Studies II., 1952.
 Rippingale, Denis Michael, B.A. Hons. Eng. I., 1952.
 Ritchie, Anne Patricia, B.A. Hons. Hist. II(ii), 1952.
 Ritchie, Jean Elizabeth, M.B., Ch.B. Hons. II., 1952.
 Ritchie, Rosemary Sheila, B.A. Hons. Social Studies II(i), 1951.
 Roberts, Jean, B.Sc. Hons. Chem. III., 1950.
 Roberts, John Bernard Michael, M.B., Ch.B., 1952.
 Roberts, John Edgar, Ph.D., 1950.
 Roberts, John Hugh, B.A., 1952.
 Roberts, Megan, B.A. Hons. Eng. II(ii), 1950.

- Roberts, Michael Manks, B.Sc., 1952.
Roberts, Michael Ralph Pakenham, B.Sc., 1952.
Robertshaw, Sheila, B.A. Hons. Social Studies III., 1950.
Robertshaw, Walter Howard, B.Sc. Hons. Mech. Engrg. I., 1952.
Robinson, Edith, Ph.D., 1951.
Robinson, Geoffrey William Newton, B.Sc. Hons. Chem. III., 1951.
Robinson, George Leslie, B.Sc. Hons. Civil Engrg. I., 1952.
Robinson, George William, B.Sc., 1951.
Robinson, Gerald Wilson, B.Sc. Hons. Civil Engrg. II., 1951.
Robinson, Harry, M.Ed., 1952.
Robinson, Keith, B.A. Hons. Hist. II(ii), 1952.
Robinson, Peter, B.Sc. Hons. Col. Chem. II., 1951.
Robinson, William Leslie, B.Sc. Hons. Agricultural Studies II, 1952.
Robshaw, Charles William, B.Sc., 1951.
Robson, Colin, B.A., 1952.
Rode, Reginald William, B.A. Hons. German III., 1950.
Rodgers, Alan, B.Sc. Hons. Biochemistry II., 1951.
Rodican, Jack, B.Sc. Hons. Bacteriology I., 1952.
Rodgers, Walter Shaw, B.Com. Hons. III., 1950.
Rogers, Dennis Leslie, B.A., 1950.
Rogers, George Malcolm, B.A., 1952.
Rogers, Margaret Yvonne, M.B., Ch.B., 1950.
Rollett, John Sydney, Ph.D., 1952.
Roper, Derrick Anderton, B.Sc. Hons. Chem. II., 1952.
Rose, Sydney, B.Com. Hons. III., 1951.
Rosindale, John Henry Walter, B.Sc. Hons. Chem. II., 1952.
Rossall, Richard Edward, M.B., Ch.B., Hons. II., 1950.
Rossiter, Arnold, B.A., 1952.
Rounthwaite, Cecil, Ph.D., 1950.
Rouse, Edmund Alexander, B.Sc., 1951.
Rowan, Grenville, B.Sc. Hons. Civil Engrg. II., 1950.
Rowbotham, Duncan William, B.Sc. Chem. Engrg. I., 1950.
Rowe, Margaret Mary, B.A., 1950.
Rowe, Peter Brian, M.B., Ch.B., 1950.
Rowell, Albert John, B.Sc. Hons. Mining Engrg. I., 1950.
Rowell, Jack Alan, B.Sc. Hons. Geol. I., 1952.
Rowland, Thomas Henry, B.A., 1950.
Rowlands, Annie, Ph.D., 1950.
Royle, Allen Graham, B.Sc. Hons. Mining Engrg. I., 1950.
Ruddock, John Sharman, B.Sc., 1951.
Rumney, Jon, B.Ch.D., 1951.
Rundle, Maurice, B.Sc., 1950.
Rushdy, Mohamad Rashad Ph.D., 1950.
Russell, Reginald Barry, B.Sc. Hons. Elect Engrg. II., 1950.
Ryan, Mary Elizabeth, B.A., 1951.
Rycroft, Ruth Elizabeth, M.B., Ch.B., 1951.
Ryden, Raymond, B.Sc. Hons. Biochemistry I., 1951.
Ryder, Charles, B.Sc., 1951.

- Ryder, Michael Lawson, B.Sc., 1951.
 Rylands, Anthony John, LL.B. Hons. II(i), 1952.
 Sacks, Derek, B.Ch.D., 1952.
 Sadler, Arthur Graham, B.Sc., 1951.
 Sagar, Constance Eileen, B.Sc., 1950.
 Sahn, Abdel Fattah Mohamed El, B.Com., 1952.
 Sahni, Inder Mohan, M.Com., 1951.
 Sains, Harry, B.Sc., 1952.
 Saleh, Aziza Tacout, M.A., 1950.
 Sampath, Martin Sylvanus, M.B., Ch.B., 1950.
 Sampson, Barry Guy, B.Sc., 1951.
 Sanders, Kenneth, M.B., Ch.B., 1951.
 Sanderson, Albert Edward, B.A. Hons. Social Studies II(ii), 1950.
 Sanderson, Arthur Clarence, B.Sc., 1952.
 Sanderson, David Bowness, B.A., 1951.
 Sarkar, Asim Kumar, Ph.D., 1952.
 Saunders, Bernard, B.Sc. Hons. Col. Chem. II., 1950.
 Saunders, Helen, B.Sc. Gen. Hons. III., 1952.
 Saville, Gillian Mary, B.Sc., 1952.
 Sawyer, Brian, B.A., 1951.
 Saxton, Arnold, B.A. Hons. French I., 1952.
 Scarth, John Fairburn, B.A. Hons. Geog. II(ii), 1950.
 Scholefield, Derek Arthur, Ph.D., 1950.
 Scholefield, John, B.Sc. with Gen. Hons. III., 1950.
 Scothorne, Raymond John, M.D. (*with distinction*), 1951.
 Scothorne, Audrey Winifred, M.B., Ch.B., 1950.
 Scott, Alan, B.Sc. Hons. Agricultural Studies II., 1952.
 Scott, Daniel Ritson, B.Sc., 1952.
 Scott, Dan, M.B., Ch.B., 1951.
 Scott, John Michael, B.Sc. Hons. Chem. I., 1951.
 Seal, Roy Gilbert, B.Sc. Hons. Geol. II., 1950.
 Seaman, Bryan Alfred, B.Sc., 1951.
 Seaman, Peter Herbert, B.Sc. Hons. Chem. II., 1951.
 Searle, Wendy Ann Cecilia, B.Sc., 1951.
 Seddon, Peter Eastham, B.A. Hons. Geog. III., 1951.
 Seel, Dennis Edward, B.Sc., 1952.
 Semple, Valerie, B.A. Hons. Geog. II(i), 1950.
 Senior, John Kenneth, B.Sc., 1951.
 Senior, Kenneth Brian, B.Sc., 1951.
 Senior, Miriam, B.A. Hons. Social Studies III., 1952.
 Senior, Wilfrid Stuart, B.Sc., 1950.
 Senn, Gustave Theodore, B.A. Hons. German II(ii), 1950.
 Sermon, Thomas David Leslie, B.Sc., 1952.
 Sewell, Maxwell Stanley, M.B., Ch.B., 1952.
 Shackleton, Joseph Brian, B.A. Hons. Eng. II(i), 1952.
 Shackleton, Paul, B.Sc., 1950.
 Sharman, Keith Grant, B.Sc., 1951.
 Sharp, Barrington Wilson, B.Sc., 1951.
 Sharp, John Anthony, M.B., Ch.B., 1950.

- Sharp, Michael William, M.B., Ch.B., 1950.
Sharp, Stanley, M.A., 1952.
Sharpe, Mrs. (see Baldwick, Sheila).
Sharpe, William Malcolm, B.A. Hons. Eng. II(ii), 1952.
Shaw, George Stuart, B.A., 1950.
Shaw, James Edward Victor, B.Ch.D., 1952.
Shaw, Janet, M.B., Ch.B., 1951.
Shaw, Norman, M.B., Ch.B., 1951.
Shaw, Robert Cudworth, LL.B. Hons II(ii), 1950.
Shaw, Trevor, B.Sc. Hons. Physics I., 1950.
Sheard, Dennis Richard, B.Sc. Hons. Chem. II., 1951.
Sheard, Philip, M.Sc., 1950.
Sheehan, Jeremiah Bernard, B.A. Hons. Hist. II(ii), 1952.
Sheffrin, Stanley, M.B., Ch.B., 1950.
Shepherd, John, B.Sc. Hons. Physics III., 1951.
Sheppard, Colin Frank, B.Com., 1951.
Sherman, Philip, M.Sc., 1950.
Sherwin, Jean Mary Morley, B.Sc., 1950.
Shipp, Cecil Owen, B.A. Hons. Mod. Langs. III., 1951.
Shorrocks, Alan Alexander, B.A. Hons. Geog. II(ii), 1951.
Shutrick, Hubert Bernard, B.Sc. Hons. Maths. I., 1950.
Shuttleworth, Elizabeth Helen, B.Mus., 1951.
Siddle, Dorothy Heylin, B.A., 1951.
Sidney, Peter Gordon, B.Sc. Hons. Chem. III., 1952.
Sigvaldason, Benedikt, B.A., 1952.
Silverman, Maurice, M.D., 1952.
Simmons, Eric, B.A. Hons. Philos. II(ii), 1951.
Simon, Ernest, B.Com., 1951.
Simpson, Mark Stothard, B.Sc., 1950.
Simpson, Michael Herd, B.A., 1952.
Sinclair, Powell Derek, M.B., Ch.B., 1950.
Singh, Kartar, Ph.D., 1950.
Singleton, Frederick Bernard, B.A. Hons. Geog. II(i), 1950;
M.A., 1952.
Skelton, Robin, B.A. Hons. Eng. I., 1950; M.A., 1951.
Skinner, Kenneth, B.Sc., 1951.
Skipsey, Eric, B.Sc. Hons. Geol. II., 1951.
Skirrow, Brian Clayton, B.Sc., 1952.
Slack, Margaret, B.A. Hons. Social Studies III., 1950.
Slater, Jack, B.A., 1950.
Slator, John Ramsden, B.Ch.D., 1951.
Sloane, Ronald, B.Ch.D. Hons. II., 1950.
Sloman, Geoffrey Stuart, LL.B. Hons. II(ii), 1952.
Small, Leonard, B.A. Hons. Hist. III., 1950.
Smart, Jeanette Mary, B.A. Hons. Eng. II(ii), 1951.
Smee, Alan, B.Sc. Hons. Mining Engrg. II., 1950.
Smith, Alan, M.A., 1951.
Smith, Alan, B.Sc. Hons. Mech. Engrg. II., 1951.
Smith, Arthur Leslie, B.A. (*with distinction*), 1951.
Smith, Denis Edward Thomas, B.Sc., 1951.

- Smith, Douglas Brian, M.Sc., 1952.
 Smith, Douglas Cyril, B.Ch.D., 1951.
 Smith, Ian Walker, B.A., 1952.
 Smith, Ida, B.A. Hons. Social Studies II(ii), 1951.
 Smith, John Bryan, LL.B. Hons. II(ii), 1951.
 Smith, John Vernon, B.Sc., 1950.
 Smith, Julien Clifford, B.Sc., 1952.
 Smith, Kenneth Terry, B.Ch.D., 1952.
 Smith, Muriel Irene, B.Sc. Gen. Hons. I., 1952.
 Smith, Norman, B.Sc. Hons. Agricultural Studies II., 1952.
 Smith, Pamela Joy, B.A. Hons. Eng. III., 1951.
 Smith, Paul David Bryan, LL.B. Hons. II(i), 1951.
 Smith, Peter, B.Ch.D., 1951.
 Smith, Philip Bryan, B.Mus., 1950.
 Smith, Raymond, B.Sc., 1952.
 Smith, Raymond Allan Cowley, B.Sc., 1950.
 Snape, Robert, M.A., 1951.
 Sneath, Sidney Dennis, B.A., 1950.
 Snell, Jeanne Adair, B.A. Hons. Hist. II(ii), 1950.
 Sneyd, Evelyn Marion, B.A., 1950.
 Soderberg, Ralph Gordon, M.A., 1951.
 Somers, Emmanuel Samuel, M.Sc., 1950.
 Southworth, Charles Peter, B.Sc. Hons. Physics II., 1950.
 Southworth, Gerald David Noble, B.A., 1952.
 Speakman, Alison Barbara (Mrs. Milburn), B.Sc., 1951.
 Speight, Alan Mottershaw, B.Sc., 1951.
 Speight, Elizabeth Margaret, B.A., 1952.
 Spelman, Edward Munro, M.A., 1952.
 Spenceley, Robert Herbert, B.Sc. Hons. Chem. Engrg. II., 1951.
 Spencer, Brian Watson, B.A. Hons. Hist. I., 1952.
 Spencer, Charles Peter, Ph.D., 1951.
 Spencer, Dorothy, B.A., 1952.
 Spencer, Francis Gerald, B.A., 1950.
 Spencer, Kenrick Parker Grant, B.A., 1952.
 Spencer, Stewart Bernard, B.Ch.D., 1952.
 Stables, Philip, B.Sc. Hons. Physics III., 1950.
 Stacey, John Michael, B.A. Hons. Hist. III., 1952.
 Stanbank, Derek James, B.Sc. Hons. Chem. III., 1952.
 Standen, Avis Maureen, B.A. Hons. Eng. II(i), 1952.
 Standeven, Joel Roy, B.A., 1950.
 Stanley, Robert Henry, B.Com. Hons. II(ii), 1950.
 Stanners, Molly Kathleen, B.A. Hons. Eng. II(ii), 1951.
 Starling, George Edmund, B.Sc., 1950.
 Statman, Harry, LL.B. Hons. I., 1950.
 Stead, Gordon Bradford, B.Sc., 1951.
 Stead, Joan Rita, B.A. Hons. Hist. II(i), 1952.
 Stead, John Cawthorn, B.Sc. Hons. Physics II., 1951.
 Stell, Robert Duncan, B.Sc. Hons. Textile Industries III., 1951.
 Sterne, Ernest Claude, B.A. Hons. Hist. II(i), 1950.

- Stewart, Ian Senior, M.D., 1950.
Stewart, Kenneth, M.B., Ch.B., 1951.
Stockdale, John Ramsden, LL.B. Hons. II(ii), 1951.
Stockdale, June, B.A. Hons. Eng. II(i), 1950.
Stones, Bernard, B.Sc. Hons. Civil Engrg. I., 1950.
Stones, Walter, B.Sc. Hons. Elect. Engrg. I., 1951.
Stott, Barbara, B.A. Hons. Social Studies II(ii), 1952.
Stott, James Pearson, Ph.D., 1951.
Stott, Victor, B.A. Hons. French II(ii), 1950.
Stott, Walter Trevor, B.Sc., 1951.
Street, John, B.A. Hons. Geog. II(i), 1952.
Strickland, John Redman, B.A., 1950.
Strong, Brian Keith, B.A. Hons. Econ. and Polit. Science III., 1950.
Stuttard, Roland Morgan, B.A. Hons. Social Studies II(ii), 1951.
Sudarsanan, Andipat Pavithran, B.Sc., 1951.
Sugden, Brenda, Ph.D., 1950.
Sugden, Mary, M.B., Ch.B., 1951.
Sumerling, Michael Derek, M.B., Ch.B., Hons. II. 1951.
Summersgill, Gordon Brian, B.Ch.D., 1950.
Sunderland, George Derek, B.A., 1952.
Sunderland, Ian McKenzie, B.Sc. Hons. Anatomy II., 1951.
Sunderland, Michael Henry, M.B., Ch.B., 1952.
Sunderland, Norman, B.Sc. with Gen. Hons. II., 1950.
Surry, Deryck Magee, B.A. Hons. Geog. II(i), 1951.
Sutcliffe, Frank Kenneth, Ph.D., 1951.
Sutcliffe, James Frederick, Ph.D., 1950.
Sutcliffe, Leslie Howard, Ph.D., 1950.
Sutcliffe, Malcolm, B.A. Hons. French II(ii), 1950.
Sutherland, Angus Edward, B.Sc., 1951.
Sutherland, James McNeill, B.Ch.D., 1952.
Sutton, Patricia May, B.Sc. with Gen. Hons. III., 1950.
Swales, John Bretherton, B.Sc., 1951.
Swales, Kenneth Horace Gordon, B.A., 1952.
Swani, Narinder Mohan, B.Sc., 1951.
Sweeting, Leslie George, B.A., 1950.
Swift, George Edward, B.Sc. Hons. Chem. III., 1950.
Swinton, Ralph Lewis, B.A., 1951.
Swire, Margaret, M.Sc., 1950.
Syddall, Denis, B.A. Eng. Hons. II(ii), 1950.
Sykes, Charles Geoffrey Wood, M.B., Ch.B., 1951.
Sykes, Geoffrey Douglas, B.Sc. Hons. Zoology III., 1952.
Sykes, Herbert, B.Sc. Hons. Colour Chem. II., 1952.
Sykes, Joseph Donald, B.Sc., 1952.
Sykes, Robert Leonard, B.Sc. Hons. Chem. of Leather Manufacture I., 1950.
Symes, Percy Peter, B.A., 1950.
Talling, John Francis, B.Sc. Hons. Botany I., 1950.
Tansley, Albert Edward, M.Ed., 1951.
Tate, Charles Wilfred, B.Sc. Hons. Civil Engrg. III., 1951.

- Tate, Geoffrey Thompson, M.B., Ch.B., 1952.
 Tate, Leslie Marsh, B.A. Hons. Hist. II(ii), 1951.
 Tatham, Mary, B.A. Hons. Social Studies II(ii), 1952.
 Taylor, Anthony Desmond, B.Sc., 1950.
 Taylor, Bernard, B.A. Hons. Hist. II(i), 1952.
 Taylor, Charles Stuart, B.Sc., 1950.
 Taylor, Christine Margaret, B.A. Hons. Eng. II(ii), 1951.
 Taylor, Douglas, B.A., 1951.
 Taylor, Edward Graham, B.A. Hons. French I., 1952.
 Taylor, Ethel Gillian, B.A. Hons. Social Studies III., 1951.
 Taylor, George William, B.Sc. Hons. Elect. Engrg. I., 1950.
 Taylor, Harold, B.Sc. Hons. Maths. II., 1952.
 Taylor, Harry, B.A., 1952.
 Taylor, Philip, Ph.D., 1952.
 Taylor, Philip Hampson, B.A., 1950.
 Taylor, Philip Morris, LL.B. Hons. III., 1951.
 Taylor, Rachel Betty, M.B., Ch.B., 1950.
 Taylor, Robert Graham, Ph.D., 1950.
 Taylor, Thomas Ashworth, B.Sc. Gen. Hons. II., 1951.
 Teal, Marion, B.A. Hons. Geog. II(ii), 1952.
 Teale, Richard William, B.Sc. Hons. Physics with Elect. Engrg. II., 1952.
 Teanby, Francis Bernard, B.Sc. Hons. Metallurgy II., 1952.
 Tebby, Dorothy Margaret, B.A. Hons. Hist. II(i), 1950; M.A., 1952.
 Teece, Alan Reginald, B.A., 1951.
 Teeman, Ronald, LL.B. Hons. II(ii), 1950; LL.M., 1952.
 Teesdale, Alan Francis, B.Sc., 1951.
 Tempest, Michael Antony, B.Sc. Hons. Chem. III, 1951.
 Temple, Alan Keith, B.Sc. Hons. Geol. II., 1951.
 Tench, John Read, B.A. Hons. Eng. II(i), 1952.
 Terry, Roland James, Ph.D., 1952.
 Terry, Trevor Barnard, B.Sc. with Gen. Hons. II., 1950.
 Teviotdale, Alan, B.Sc. Hons. Physics I., 1950.
 Tew, Betty, B.A. Hons. French I., 1952.
 Thackray, Peter Michael, B.A., 1952.
 Thackray, Malcolm, B.Sc. Hons. Chem. III., 1950.
 Thackray, Ronald, B.A., 1951.
 Thackray, Thomas William Peel, B.A. Hons. Geog. II(i), 1952.
 Thomas, Lionel Hugh Christopher, Ph.D., 1952.
 Thomas, Margaret Dorothy, B.A. Hons. Social Studies II(i), 1951.
 Thomas, Olga Dilys, B.A. Hons. Social Studies II(ii), 1950.
 Thomas, Patricia, Ph.D., 1952.
 Thomas, Victor, B.A. Hons. French II(i), 1950.
 Thompson, Brian Hoyle, B.Sc. Hons. Chem. Engrg. I., 1951.
 Thompson, Charles Colin, B.Sc. Hons. Biochemistry, II. 1952.
 Thompson, Mrs. (see Docker, Frances Mary).
 Thompson, Hazel Margaret, B.A., 1952.
 Thompson, Mrs. (see McIntosh, Jean Catherine).

- Thompson, Michael Casburne, B.Sc. Hons. Chem. of Leather Manufacture I., 1951.
Thompson, Peter Anthony, B.A. Hons. Econ. II(i), 1952.
Thompson, Roy, B.A., 1951.
Thompson, Walter, M.D., 1950.
Thompson, William Alan, B.Sc. Hons. Mining Engrg. III., 1951.
Thomson, Neilson McAllister, B.Sc. Hons. Mech. Engrg. III., 1951.
Thorne, Harold Gervase, B.Sc., 1950.
Thornhill, Barbara Betty, B.Ch.D., 1950.
Thornley, Tom, B.Sc., 1951.
Thornton, Hedley, B.Sc. Hons. Civil Engrg. I., 1951.
Thornton, Ian Walter Boothroyd, B.Sc. Gen. Hons. I., 1951.
Thornton, Kenneth Richard, M.B., Ch.B., Hons. II., 1950.
Thornton, Peter Austin, LL.B. Hons. II(i), 1950.
Thorp, Tony Harrison, B.Sc., 1950.
Throup, Betty Overend, B.A. Hons. Eng. II(i), 1951.
Thwaites, Colin Edward, B.Sc., 1952.
Thynne, Gordon Walter, B.A. Hons. Philos. II(i), 1952.
Tibbs, Jack, Ph.D., 1951.
Tiffin, Arthur Ian, B.Sc. Hons. Chem. II., 1950.
Tillotson, Harry Beverley, B.Com., 1951.
Tillott, Shirley, M.B., Ch.B., 1950.
Tinner, Gerald, B.A., 1950.
Tiwari, Brajmohan Prasad, Ph.D., 1950.
Tobin, John Francis, B.A., 1951.
Tolson, John, B.Sc. with Gen. Hons. II., 1950.
Tomson, Charles Henry, B.Sc., 1950.
Tonks, Francis, B.A., 1951.
Topham, Anthony John, B.A. Hons. Econ. and Polit. Science II(i), 1950.
Towler, Eric Arthur, B.Sc. Hons. Civil Engineering II., 1950.
Townend, John Law, B.Ch.D., 1952.
Townend, Peter, B.A. Hons. Geog. III., 1951.
Townson, Cyril John Francis, B.A. Hons. Geog. II(ii), 1952.
Tremaine, James Noel, B.Sc., 1950.
Trenholme, Constance Patricia, B.A. Hons. French II(ii), 1952.
Trickett, John Michael, B.Sc. Hons. Agricultural Studies II., 1952.
Trimble, John, B.Sc., 1950.
Truscott, Montague Tony, B.Sc. Hons. Mech. Engrg. II., 1952.
Tuff, Donald Medgley, B.Sc., 1952.
Turner, Frank, B.Sc., 1950.
Turner, George Herbert, B.A., 1951.
Turner, Harold, B.Sc., 1950.
Turner, Thomas Francis, B.A. Hons. German II(ii), 1950.
Turner, William, M.B., Ch.B., Hons. II., 1950.
Tweed, Ronald Braithwaite, LL.B. Hons. II(i), 1951.
Twist, Donald Chisnall, M.B., Ch.B., 1950.
Tyerman, Miriam, B.A., 1951.
Uren, Francis Alastair, B.Sc., 1951.

- Usher, George Lawry, B.Sc. Hons. Col. Chem. II., 1950.
 Vallow, Peter Warneford, M.B., Ch.B., 1951.
 Varley, Eric Geoffrey, B.Sc., 1950.
 Varley, John Colin, B.Sc. Hons. Chem. III., 1952.
 Veeder, Jack Isaac, B.Sc. Hons. Physics III., 1951.
 Veevers, Elizabeth Anderson Hynd, B.A., 1950.
 Verity, George David, B.Com. Hons. II(i), 1950.
 Vickers, John Graham, B.Sc., 1951.
 Vickers, Peter, B.A. Hons. Econ. and Polit. Science II(ii), 1951.
 Vincent, Colin, B.A. Hons. Geog. II(ii), 1951.
 Vincent, Michael, B.A. Hons. Mod. Langs. III., 1952.
 Vine, Peter James, B.Sc. Hons. Elect. Engrg. II., 1951.
 Virgo, Gerald Denzil, B.Sc. Hons. Colour Chem. II., 1952.
 Vokes, Frank Marcus, M.Sc., 1950.
 Waddington, Michael Hugh Guy, M.B., Ch.B., 1951.
 Waddington, Reginald Hewitt, B.Sc., 1951; Hons. Textile Industries I., 1952.
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 Waghorn, Geoffrey Charles Seymour, Ph.D., 1950.
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 Waite, Clifford Anthony, B.A. Hons. Eng. I., 1950.
 Wakefield, Anne Beryl, B.A. Hons. Eng. II(ii), 1952.
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 Walker, Charles Trevor, Ph.D., 1952.
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 Walker, George Milne, B.A. Hons. Geog. II(ii), 1952.
 Walker, George Patrick, B.A. Hons. Latin II(i), 1951.
 Walker, Margaret Steward, B.Sc. Hons. Botany II., 1952.
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 Wall, Arthur, B.Sc. Hons. Mech. Engrg. I., 1950.
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 Walling, Catherine, B.A. Hons. Eng. II(i), 1950.
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 Wallis, Joyce Winstanley (Mrs. Matthews), M.B., Ch.B., 1950.
 Walmsley, Alan, B.A., 1952.
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- Walmsley, Nancy, B.A. Hons. French II(ii), 1952.
Walsh, Gordon Raymond, B.Sc. Hons. Maths. I., 1950; M.Sc., 1951.
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Walton, Jim, B.Sc., 1951.
Warburton, Betty Nuttall, B.A. Hons. Hist. (*Aegrotat*), 1951.
Ward, Alan, B.A., 1950.
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Wastell, John Roger, B.Sc., 1952.
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Watson, Frank Hugill, B.Sc., 1951.
Watson, Ian James, B.Sc. Hons. Mining Engrg. I., 1952.
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Watson, Kenneth William, B.Sc., 1952.
Watt, James Alastair Crichton, Ph.D., 1951.
Watt, John Anthony, B.A. Hons. Hist. I., 1950.
Watton, Mrs. (see King, Mary Joyce).
Way, Ronald George, B.A., 1950.
Weatherell, John Arnold, B.Sc. Hons. Chem. III., 1952.
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Webster, Anthony Cooper, M.B., Ch.B., Hons. II., 1952.
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Webster, Mary Louise, B.A. Hons. Hist. II(i), 1951.
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Weidmann, Steven Michael, Ph.D., 1952.
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Weston, Geoffrey, B.Sc. Hons. Mining Engrg. I., 1952.
Westwell, Frank, B.Sc., 1950.
Whalley, Henry, B.A., 1950.
Wheeldon, William Dennis, B.A. Hons. Philos. II(i), 1951.

- Whitaker, George, B.Sc., 1951.
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 White, Alan Giles, B.Sc., 1950.
 White, Colin Lawrence, B.Ch.D., 1950.
 White, Dennis Edward, B.Sc. Hons. Geol. II., 1951.
 White, Derek, B.Sc., 1951.
 White, Frederick, B.Sc. Hons. Bacteriology I., 1951.
 White, Ian Robert, B.Sc., 1950.
 White, Michael Norman, B.A. Hons. Hist. II(i), 1950.
 White, Peter Galpin Cecil, B.A. Hons. Hist. II(ii), 1950.
 Whiteley, John Stuart, M.B., Ch.B., 1950.
 Whiteley, Raymond, B.A. Hons. Eng. II(ii), 1950.
 Whiteley, Ronald, Ph.D., 1951.
 Whitelock, Michael James Simpson, B.Sc., 1951.
 Whiteside, Lilian Patricia, B.A., Hons Hist. II(ii), 1950.
 Whitfield, Harry, B.Ch.D., 1952.
 Whiting, Charles Henry, B.A. Hons. German II(i), 1952.
 Whitlock, Dennis David, B.Sc., 1951.
 Whittaker, Alan Reid, B.A. Hons. Eng. II(i), 1951.
 Whittaker, Peter Thomas, B.A., 1951.
 Whitworth, John Robert, B.Sc., 1950.
 Wiechula, Bernard Augustyn Kazimierz, Ph.D., 1950.
 Wiener, Raymond, B.Ch.D., 1950.
 Wigglesworth, Charles Bateson, B.Sc., 1950.
 Wigglesworth, George, B.Sc. Gen. Hons. III., 1952.
 Wigney, David Alexander, B.A. Hons. Econ. and Polit. Science II(i), 1950.
 Wilby, George Paton, B.Sc. Hons. Elect. Engrg. I., 1950.
 Wilcock, John Desmond B.Sc. Hons. Chem. Engrg. II., 1952.
 Wilcox, Michael Allan, B.Sc., 1950.
 Wilkinson, Britton, B.Sc. Hons. Chem. III., 1951.
 Wilkinson, Mollie, B.A., 1950.
 Willey, George Lawrence, B.Sc., 1951; Hons. Pharmacology I, 1952.
 Williams, Alan George, B.Sc., 1950.
 Williams, Douglas, B.Sc., 1951.
 Williams, Henry Howard, Ph.D., 1951.
 Williams, James Eccles, M.A., 1951.
 Williams, Judith Ann, B.A. Hons. Social Studies II(i), 1950.
 Williams, Margaret Isabel, B.Sc., 1951.
 Williamson, Norman William, B.Sc. Hons. Civil Engrg. II., 1950.
 Willis, Horace George, B.A., 1950.
 Wilman, John Cecil, LL.B. Hons. II(i), 1951.
 Wilmhurst, Beverley Robley, B.Sc. Hons. Chem. II., 1950.
 Wilson, Arthur Ronald, B.Sc., 1950; Hons. Gas Engrg. II., 1952.
 Wilson, David Hedley, M.B., Ch.B., 1951.
 Wilson, George Edward, M.Ed., 1952.
 Wilson, George Michael, LL.B. Hons. II(i), 1950.
 Wilson, Ian Douglas, B.Sc., 1950.
 Wilson, John, B.Com., 1950.

- Wilson, John Batey, B.Sc., 1950.
Wilson, John Crawshaw, B.Sc., 1952.
Wilson, Margaret Lomax, B.A., 1952.
Wilson, Mrs. (see Windsor, Joan Patricia).
Wiltshire, Edwin Howard, B.A., 1952.
Winder, Brian Michael, B.Sc., 1952.
Windsor, Joan Patricia (Mrs. J. Wilson), B.A., 1951.
Winfield, Eileen Mary, B.Sc. Hons. Chem. III., 1950.
Winkworth, Tyrrell Stanley, B.Sc. Hons. Agricultural Studies II., 1952.
Winton, John, Ph.D., 1951.
Wise, Anthony, B.A., 1951.
Wolfe, Cyril, B.A., 1951.
Wood, Brian Frederick, B.A., 1952.
Wood, Derrick Lewis, B.Sc. Hons. Elect. Engrg. II., 1952.
Wood, Edward Geoffrey, B.Com., 1951.
Wood, Frank Chiltern, Ph.D., 1951.
Wood, Geoffrey Charles, Ph.D., 1952.
Wood, Gilbert, M.B., Ch.B., 1951.
Wood, Jack Trevor, B.Sc. Hons. Chem. Engrg. I., 1951.
Wood, John Edwin, Ph.D., 1951.
Wood, June Kathleen, B.A. Hons. Hist. II(ii), 1951.
Wood, Malcolm, B.Sc., 1951.
Woodcock, Brian Hanson, B.Sc. Hons. Physics III., 1950.
Woodcock, Donald Bernard, B.Sc. Hons. Mech. Engrg. II., 1950.
Woodcock, Stewart, B.Sc., 1950.
Woodhead, Harry, B.Sc., 1950.
Woodhead, June Marjorie, B.A. Hons. German III., 1952.
Woodhouse, John Thomas, B.Sc., 1950.
Woodhouse, Maurice Tanton, Ph.D., 1952.
Wooding, Norman Samuel, Ph.D., 1950.
Woods, Colin Gerard, M.B., Ch.B., 1951.
Woodward, James Stuart, B.A., 1951.
Woodwark, Arthur, B.Sc. Hons. Chem. Engrg. I., 1950.
Woof, Thomas Milton, B.Sc., 1951.
Wormald, Peter Shaw, B.Sc. Hons. Civil Engrg. I., 1950; M.Sc., 1951.
Worrall, Joseph Raymond Waistill, B.Com., 1950.
Worth, Harold Douglas Haigh, B.A., 1950.
Worthington, Andrew Ralph, M.B., Ch.B., 1952.
Worthington, Bernard William, B.A., 1950.
Worton, David Albert, B.A. Hons. Econ. and Polit. Science II(i), 1950.
Wrennall, James Harry, B.A. (with Hons. in General Studies), 1952.
Wright, Colin John Eliot, M.Sc. (*with distinction*), 1950.
Wright, Ethel May, M.B., Ch.B., 1951.
Wright, Ian, B.Sc. Hons. Colour Chem. I., 1952.
Wright, Joseph, B.A. Hons. French-Latin II(i), 1951.
Wright, Malcolm, M.B., Ch.B., 1951.
Wright, Maurice Lawson, Ph.D., 1950.

- Wright, Neville Walter, B.A. (*with distinction*), 1950.
 Wrigley, Gordon, B.Sc. Hons. Agric. Botany II., 1951.
 Wyatt, Leslie Edward, B.A., 1951.
 Wyngard, Ernest Clive, B.A., 1952.
 Yates, Barbara Mary, B.A. Hons. Social Studies II(i), 1951.
 Yates, Bernard, B.Sc. Hons. Physics. I., 1952.
 Yates, Miriam, B.Sc., 1952.
 Yen, Chang-Tai, M.Sc., 1950.
 York, Mary, B.Sc., 1952.
 Youatt, Gordon, B.Sc. Hons. Chem. II., 1950.
 Young, Jeanette, B.Ch.D., 1951.
 Young, Nell, B.A. Hons. Eng. II(ii), 1950.
 Young, Philip William, B.Sc., 1952.
 Zermansky, Victor David, LL.B. Hons. II(i), 1951.

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