



UNIVERSITY OF LEEDS

**Ordinance and Regulations
and Programmes of Study
for Research Degrees
2011-2012**

Disclaimer

In exceptional circumstances the University reserves the right, without notice or liability, to withdraw or alter programmes or parts of programmes at any time. If the demand for a programme or parts of a programme is such that it is not viable to run it, the University retains the right to withdraw offers made without liability. The University also retains the right to withdraw offers made without liability where demand for a programme or parts of a programme has exceeded expectations.

The University's contract with its students does not confer third party benefits for the purposes of the Contracts (Rights of Third Parties) Act 1999.

Learning Outcomes

All students who commenced study prior to September 2011 started their development with learning outcomes based on the Joint Skills Statement of the Research Councils
<http://www.vitae.ac.uk/policy-practice/1393-3063/Joint-Skills-Statement.html>

For students commencing study from September 2011 onwards the University's learning outcomes must be viewed in the context of the Researcher Development Framework and Researcher Development Statement

<http://www.vitae.ac.uk/researchers/428241/Researcher-Development-Framework.html>

The University's 'generic' learning outcomes/level indicators for its different academic awards have been developed in the expectation that the learning outcomes will be achieved irrespective of the manner and location of the research and/or delivery of the programme followed by the students concerned. These general statements will be subject to continuous review by the Graduate Board.

ACCESS

An electronic version of this Handbook is available at:
www.leeds.ac.uk/rsa/policies.html

Should you require information in an alternative format (e.g. braille, large print, e-text or audio formats) please contact Research Student Administration.

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The University of Leeds - Ordinances and Regulations

INTRODUCTION

This document contains details of all research degrees of the University of Leeds governed by Ordinance X. Details of higher doctorates (governed by Ordinance XII), are available in a separate document.

The University's Graduate Board formulates and implements policies and procedures for all research degrees. It also monitors and reviews all arrangements for research degrees and aspects of a candidature. The Board is Chaired by the Dean for Postgraduate Research Studies, and is responsible for implementing policy and regulations via Research Student Administration (RSA), Faculty Graduate School Committees and Postgraduate Research Tutors.

Admission, progress, examination and a decision regarding the award of the degree also fall within the remit of the Graduate Board. Postgraduate research students are represented on the Board and upon Faculty Graduate School Committees.

For further information about the Graduate Board and its Groups, please visit the website: www.leeds.ac.uk/rsa/graduate_board/graduate_board.html

ORDINANCE X

Within the following Ordinance and its associated Regulations the following phrases have the significance stated:

- *'relevant committee'* means the committee empowered for the purpose concerned by the Senate i.e. normally the Graduate Board
- *'designated authority'* means the member of staff authorised to act in accordance with the relevant Ordinances, Regulations, Rules, Procedures and Codes of Practice of the University for the purpose concerned by the Senate or the relevant committee i.e. the appropriate Head of Faculty/School/Affiliated Institution/Recognised Institution or other designated member of staff.

1. The research degrees shall be:

Doctorates

Doctor of Medicine (MD)
Doctor of Philosophy (PhD)

Professional Doctorates:

Doctor of Education (EdD)
Doctor of Clinical Psychology (DClinPsychol)
Doctor of Public Management (DPM)
Doctor of Business and Management (DBM)
Doctor of Clinical Dentistry (DClinDent)
Doctor of Health and Social Care (DHSC)

*The Integrated Degrees of Doctor of Philosophy and Master (MA, PhD;
LLM, PhD or MSc, PhD)*

Masterships

Master of Philosophy (MPhil)
Masters Degrees by Research:
Master of Arts (MA (by research))
Master of Education (MEd (by research))
Master of Science (MSc (by research))
Master of Science (Engineering) (MSc (Eng) (by research))

General

2. A research degree may be conferred on payment of the proper fee, upon candidates who have:
 - (a) fulfilled the requirements of the Ordinance and the relevant regulations as to study, training, research under supervision or advice approved by the relevant committee, and examinations, and
 - (b) presented a thesis or approved alternative form of submission satisfactory to the relevant Committee, and
 - (c) where the approved work for the degree includes a substantial element of advanced study, satisfied the examiners in the written examination thereon.

3. Before commencing their studies and research at the University or at a College, Institution or teaching establishment affiliated to or recognised by the University (under the provisions of Ordinance XX Articles 8 or 9), or at another institution approved as a partner to offer joint degrees with the University, all candidates for a research degree of the University shall be required to satisfy the requirements for entry upon a research degree. Such requirements, which will include acceptable levels of literacy and numeracy, will be prescribed from time to time for the programme of research and study for which the prospective candidate is seeking admission by the relevant committee, in accordance with the provisions of the Regulations governing Research Degrees.

4. Unless otherwise stated in the relevant prescribed programme of study, normally candidates wishing to proceed to a research degree will, in the first instance, either be required to apply for acceptance as provisional candidates for the degree concerned or be asked to register as postgraduate research students¹. All such provisionally registered students may, with the approval of the relevant committee, subsequently be accepted as candidates for the degree concerned on their completion to the satisfaction of the designated authority concerned of a period of study not normally in excess of the period stated in the relevant prescribed programme of study.

The relevant committee may waive or modify this requirement in the case of

- (a) persons already holding a higher degree of an approved university or institution awarded on completion of a course of advanced study or research which provides evidence of aptitude for research at doctoral level, or
- (b) persons whose academic qualifications reach the required standard and who have, in addition, industrial, clinical or other experience of special relevance to their proposed subject of research and who are recommended by the designated authority concerned on these grounds, *or*
- (c) persons undertaking degrees involving substantial elements of study, research training and research, *or*

¹ For the purposes of this Ordinance the term 'postgraduate research students' excludes those candidates accepted and registered for any postgraduate degree or diploma governed by any other Ordinance.

ORDINANCE X

(d) members of staff of the University who are submitting under the arrangements approved by the relevant committee for the award of the degree of Doctor of Philosophy by published work.

5. Except as hereinafter provided,

(a) all full-time candidates for a research degree of the University are required to pursue approved full-time study, training and research in residence in the University under such supervision and direction as may be prescribed, for a period which shall be determined in each case by the relevant committee but which, unless otherwise specified in the prescribed programme of study concerned, shall normally be as specified in (c) below from the date of initial registration as a research degree candidate;

(b) candidates may be permitted to undertake study on a part-time basis provided that the relevant committee is satisfied with the frequency of their attendance for supervision and the facilities available for their research. Candidates so accepted are required to pursue approved study, training and research under such arrangements for their study, research, supervision and direction as may be prescribed, for a period which shall be determined in each case by the relevant committee but which unless otherwise specified in the prescribed programme of study concerned, shall normally be as specified in (c) below from the date of initial registration as a research degree candidate;

(c)

	<i>Normal Minimum Period of Full-Time Study in calendar years unless otherwise prescribed</i>	<i>Normal Minimum Period of Part-Time Study in calendar years unless otherwise prescribed</i>
Doctorates		
MD	2	3
Doctor of Philosophy	3	5
<i>Professional Doctorate</i>		
EdD	3	5
DClinPsychol	3	not applicable
DPM	3	5
DBM ¹	not applicable	5
DClinDent	3	5
DHSC	3	5

¹ DBM is suspended with effect from 2011-12

ORDINANCE X

Integrated PhD and Master	4	not applicable
Masterships		
Master of Philosophy	2	4
<i>Masters Degrees by Research</i> MA, MEd, MSc or MSc(Eng)	1	2

- (d) where candidates have been permitted to transfer between the full-time and part-time modes of study, or have been granted permission by the relevant committee to intercalate periods of leave of absence on academic or health grounds, the minimum periods of study for their programme will be determined normally in proportion to the minimum period of study applicable to the relevant mode of each calendar year they are required to complete.
6. In special circumstances, persons working in approved academic institutions or in approved scientific, clinical or industrial locations may be eligible for acceptance as full-time students for a research degree other than one of the Masters Degrees by Research under the relevant articles of this Ordinance provided that they are able to devote their whole time to research for the degree concerned and that they spend one calendar year or such periods as the relevant committee may prescribe in residence at the University.
 7. In appropriate circumstances candidates for a research degree other than one of the Masters Degrees by Research who are full-time students may undertake a limited amount of research away from the University, either on approved fieldwork or in approved academic institutions or scientific, clinical or industrial locations, whilst remaining under the direction of the University. Permission to spend up to a total of twelve months studying outside the University during the period of study determined under article 5a above will be at the discretion of the designated authority concerned; periods in excess of this must be approved by the relevant committee unless specified in the prescribed programme of study.
 8. When the progress and quality of the candidate's research justify it the relevant committee is empowered to reduce the required minimum period of study for certain research degrees provided that no candidate shall present for examination for the degree concerned before the completion of the period of study stated in the relevant prescribed programme of study.
 9. Except with the special permission of the relevant committee every candidate for a research degree shall be required to have completed all study and examination requirements, including any re-examinations within the period stated in the relevant prescribed programme of study.
 10. Research degree candidates who have passed the examinations prescribed for the award of a taught postgraduate award under Ordinance XI *Taught Postgraduate Awards*, may, in conformity with the provisions laid down and the arrangements

ORDINANCE X

approved for the programme concerned by the relevant committees, be permitted to transfer to candidature for that award.

The Professional Doctorates

11. Professional Doctoral Degrees shall be awarded upon satisfactory completion of a prescribed programme of advanced study, training, supervised practice and research which may include applied research and/or professional or clinical practice. Such programmes will lead to the award of either:
 - (a) The Degree of Doctor of Education, *or*
 - (b) The Degree of Doctor of Clinical Psychology, *or*
 - (c) The Degree of Doctor of Public Management, *or*
 - (d) The Degree of Doctor of Business and Management, *or*
 - (e) The Degree of Doctor of Clinical Dentistry.
 - (f) The Degree of Doctor of Health and Social Care.

Integrated Degrees of Doctor of Philosophy and Master

12. The integrated degrees of Doctor of Philosophy and the relevant degree of Master shall be awarded upon satisfactory completion of a prescribed programme of advanced study, training, supervised practice and research.

The degree of Master of Philosophy

13. A candidate for the degree of Doctor of Philosophy who has not been successful in his/her submission for that degree may:
 - (a) where recommended by the examiners, and where the criteria for the award of the degree of Master of Philosophy have been satisfied, be awarded the degree of Master of Philosophy, subject to the correction of any minor errors and to the rebinding of the thesis in the appropriate format;
 - (b) with the approval of the relevant committee, and on the recommendation of the designated authority, present his/her doctoral thesis in revised form for examination for the award of the degree of Master of Philosophy. Such candidates will not be required to pay fees other than an examination fee.

ORDINANCE X

Regulations for Ordinance X

General

1. *Admission Requirements*

In order to qualify for admission to a programme of study, training and research leading to a research degree, all applicants must demonstrate that they have the qualifications and/or experience which are acceptable to the relevant committee as an appropriate preparation for the particular study envisaged through meeting the normal minimum entry requirements for admission to candidature for the research degree concerned which require candidates to:

- (a) be graduates of the University of Leeds or of any approved university or institution with normally at least a first or second class Honours degree of Bachelor in an appropriate discipline, **or**
- (b) hold qualifications approved for this purpose by the relevant committee, provided that the course of study in the subject for which the qualification has been awarded has extended over not less than three years of full-time study or equivalent part-time study and is acceptable to the Senate as being an adequate preparation for the research proposed, **or**
- (c) hold such other qualifications and/or experience as may be deemed by the relevant committee to be acceptable as equivalent to or in lieu of a degree. Unless otherwise stated in the prescribed programme of study and research such candidates will normally be required to satisfy the relevant committee that their educational attainments and experience qualify them to undertake an approved course of supervised research and research training at the appropriate level normally through reaching a satisfactory standard in a special preliminary examination, **and**
- (d) meet any requirements for admission to an individual programme of study stipulated in the relevant prescribed programme of study and by any relevant professional statutory or accreditation body, **and**
- (e) where the applicant's first language is not English, to fulfil the following conditions in order to provide evidence that they have a sufficient knowledge of both written and spoken English:
 - i. Applicants for admission to a programme leading to a research degree award of the University must, before they can be admitted to the University, provide evidence that they have attained normally at least a band score of 6.0 (with not less than 5.5 in any component) in the British Council IELTS or equivalent qualifications, which have been approved by the University¹. In addition some Faculties may require English language qualifications above this stipulated minimum. Candidates who wish to pursue a research degree candidature under split-site arrangements are

¹ Equivalent qualifications, approved by the University, are published on RSA website http://www.leeds.ac.uk/rsa/prospective_students/apply/entrance_requirements.html

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normally required to provide evidence that they have attained a band score of 6.5 in IELTS with no component below 6.0;

- ii. Upon admission to courses of research in the University all applicants must undergo a test in English as soon as possible and in any case not later than one month after registration. Students who fail to reach a satisfactory standard in this test will be required to complete satisfactorily appropriate courses, as may be required. These may require a year of study additional to the period required for a qualification of the University.
2. Applicants who wish to proceed to the degree in a subject not studied as a substantial part of their first degree or equivalent level work may be required, before acceptance as candidates, to reach a satisfactory standard in a preliminary examination on that subject.
3. Applicants who have not reached the honours standard in a first degree examination may be required, not less than one year after the date of their acceptance, to pass a qualifying examination in a subject prescribed by the relevant committee.
4. Applicants under the provisions of paragraphs (b) and (c) of regulation 1 above may be required to present to the relevant committee evidence of a satisfactory general education or, in the absence of such evidence, may be required to pass an examination to be prescribed in each case by that committee before his/her acceptance.
5. Candidates accepted for part-time study in the Faculties of Biological Sciences, Environment, Mathematics and Physical Sciences, Engineering and Medicine and Health shall normally be members of the staff of a teaching, scientific, clinical or industrial establishment where appropriate research facilities are available and shall undertake research both at their place of work and in the University as prescribed by the relevant committee under the supervision of a member of the staff of the University.
6. Before entering on the programme of advanced study and research for a research degree, a candidate must:
 - (a) unless other arrangements are laid down in the prescribed programme of study, submit to the relevant committee for its approval his/her proposed programme of advanced study and research, *and*
 - (b) register as a student of the University and pay the prescribed fee for tuition, *and thereafter*
 - (c) undertake the approved programme of advanced study and research, as prescribed by the relevant committee, under the supervision of a member of staff of the Faculty/resource centre/affiliated or recognised institution concerned, *and*
 - (d) give evidence of satisfactory progress by such means as the designated authority may prescribe.

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7. Candidates for research degrees will not normally be permitted to register concurrently for another programme of study at this or another Higher Education Institution.
8. Full-time candidates must devote their whole time during the course to their advanced study and research in the University but, in exceptional circumstances, the relevant committee may allow the candidate to undertake a limited amount of other work which, in its judgement, would not interfere with the course of study. Subject to the provisions of Regulation 23, members of staff holding contracts for full-time employment at the University will be required to register as candidates for a research degree on a part-time basis.
9. Candidates who have completed their required period of study for the degree, but who have not yet completed the requirements for the award of the degree, are required whilst their candidatures continue to:
 - (a) register as students of the University, *and*
 - (b) pay fees either at the full-time or part-time rate as is deemed appropriate by the designated authority concerned.

Such candidates may be permitted, at the discretion of the designated authority concerned, to pay the specially reduced overtime fee.

10. Candidates must not submit as their thesis one for which another degree or similar qualification has been awarded, or which is under consideration for such an award, but they will not be precluded from incorporating any part of such work provided that they state their wish to do so at the time of application for acceptance as a candidate by submitting a statement indicating how earlier work will be incorporated and in the thesis itself indicate the part of the work so incorporated. In addition to any earlier work the thesis must include a substantial new body of research.
11. Unless otherwise required by the prescribed programme of study, not less than three months before the submission of the thesis, a candidate undertaking a research degree must make application to the University Secretary to be examined. The thesis, which shall be specially written for the purpose, must be written in English and must contain a critical account of original studies carried out personally by the candidate. In the case of research degrees in the modern languages, if the particular subject so demands, and in the case of specific arrangements approved for the award of joint degrees with other higher education institutions, the relevant committee may be prepared to grant permission at the time of an applicant's acceptance as a research degree candidate for a thesis to be submitted in a language other than English.
12. The candidate must submit his/her thesis for examination in accordance with the University's requirements and guidance for the particular degree programme current at the time of submission. Following a successful examination a hard bound copy of the thesis approved for the degree will be retained in the University Library. In the case of a doctoral award a further, digital copy of the thesis approved for the degree must also be deposited, in accordance with the University's requirements and

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guidance on thesis submission¹. There may be additional requirements in the case of joint awards with other institutions.

13. The examination of the thesis shall include an oral examination conducted in the English language except in cases where, under the provisions in Regulation 11, a candidate has been granted permission to submit his/her thesis in a language other than English in which case the examiners may determine, at their discretion, to conduct the oral examination in whole or in part in the language used in the thesis.
14. Research Degrees will be awarded by the relevant committee after recommendations from the examiners that the research contained in the thesis and the performance in the oral examination are of a sufficiently high standard and that any other requirements of the prescribed programme of study and learning outcomes have been met satisfactorily. Pass lists for research degrees shall be published by programme of study.
15. Where a candidate's submission is not considered to be of a sufficiently high standard to merit the award of the research degree concerned then, on the recommendation of the examiners, *either*
 - i. the degree will not be awarded and there will be no further opportunity for resubmission, *or*
 - ii. the candidate will be granted permission to re-submit the work on one occasion only in a revised form within a period as prescribed by the relevant committee and on the payment of an additional fee.
16. Research degree candidates must present themselves for the examinations and assessments arranged in connection with any module/course prescribed in their programme of study, except that candidates will not be permitted to present themselves for such examination or assessment unless they have satisfactorily attended the prescribed module/course and performed any required class, practical and/or clinical work to the satisfaction of the designated authority for the module/course. Candidates must present themselves for such oral examinations as may be required by the examiners in accordance with any requirements laid down in relation to the modules/courses prescribed in their programme of study.
17. Subject to the provisions of the relevant programme of study and research a first attempt at examinations as prescribed for individual modules/courses will ordinarily be held at the end of either Semester 1 or Semester 2 upon completion of the module/course. Additionally, candidates may be required to present for examinations and assessments at other times in accordance with the individual requirements of their programme of study.
18. Subject to the provisions of the relevant programme of study and research, candidates who do not achieve a satisfactory standard at the first attempt in module/course examinations or assessments which are part of their prescribed

¹ for all candidates commencing study in 2009/10 onwards. Other doctoral candidates are, however, also encouraged to submit a digital copy of their thesis.

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programme of study and research may be permitted a second attempt in individual assessments and examinations, normally when the assessment or examination is next offered. In any re-examination of any module/course taken as part of a research degree programme the grade achieved may not exceed the minimum pass grade for postgraduate awards/modules as designated on the University scale of grades.

19. Where permissible in a prescribed programme of study for a research degree, a candidate who has failed the first assessment but not a re-assessment for an optional or elective study module may present for another such module as if it were a first attempt and retain the opportunities for re-examination as provided by Regulations 17 and 18.
20. A candidate who fails any re-examination in a module/course which it is required be passed before progression to the award of a research degree will be required to withdraw from the programme of study and research concerned.
21. The examination performance of candidates at any stage in their programme of study and research may be taken into account in assessing their final award in accordance with the provision for that programme approved by the relevant committee.

The degree of Doctor of Medicine

22. To qualify for the award of the degree of Doctor of Medicine each candidate must meet the required learning outcomes and satisfy the examiners that his/her achievement is of sufficient merit and that his/her thesis contains evidence of originality and independent critical ability and matter suitable for publication through:
 - (a) presenting a thesis on the subject of his/her advanced study and research, *and*
 - (b) presenting him/herself for an oral examination and such other tests as the examiners may prescribe.

The degree of Doctor of Philosophy

23. Members of staff of the University who wish to submit published work for examination for the degree of Doctor of Philosophy may be accepted as candidates for the degree under arrangements approved for their candidature by the relevant committee for the award of the degree of Doctor of Philosophy. Such accepted candidates for the degree of PhD by published work may present for examination at any stage, after consultation with their adviser.
24. To qualify for the award of the degree of Doctor of Philosophy each candidate must meet the required learning outcomes and satisfy the examiners that his/her achievement is of sufficient merit and that his/her thesis contains evidence of originality and independent critical ability and matter suitable for publication through:
 - (a) presenting a thesis or alternative form of thesis as prescribed under regulation 25 on the subject of his/her advanced study and research, *and*
 - (b) presenting him/herself for an oral examination and such other tests as the examiners may prescribe.

In the case of joint awards with other institutions candidates may be subject to additional examination processes.

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25. Candidates in certain disciplines and staff candidates by published work may be granted permission by the relevant committee to present for examination an alternative form of thesis as follows:
- (a) *for practice-led research*: a body of work demonstrating an original contribution to knowledge and scholarship, which comprises of a substantial body of creative practice¹ produced by the candidate in pursuit of the degree, displaying critical understanding and being worthy of public presentation, together with a written submission, which provides an exploration of the research question(s) and indicates the manner in which the research is embodied in the practice, which will normally be between 15,000-50,000 words,
 - (b) *for the degree of PhD by published work (available for certain members of staff)*: a submission in the form specified by the relevant committee, which makes a contribution to knowledge in a coherent and related subject area, demonstrates originality and satisfies the examiners that it is of sufficient merit to qualify for the degree of Doctor of Philosophy,

The Professional Doctorates

26. In addition to meeting the general requirements for admission to a research degree under Regulation 1 applicants for acceptance as candidates for any of the Professional Doctorate degrees are also required to have any relevant career experience and/or professional qualifications as may be laid down in the prescribed programme of study concerned.
27. Applicants for Professional Doctorate programmes who have successfully attended certain courses of study either at the University of Leeds or at an approved educational establishment or who have attained appropriate levels of registration status with a relevant and recognised professional body may be eligible for special consideration under the University's policies and procedures for credit accumulation and transfer (CATS)/ accreditation of Prior Experiential Learning (APEL) for the granting of exemption from some or a proportion of the modules/ courses and their examinations which comprise the study element of their prescribed programme of study provided always that no such exemptions will apply to any statutory qualifying examinations for registrable awards or to the research components of their programme.

¹ Areas of creative practice are currently offered in the following Schools: School of English, School of Fine Art, History of Art & Cultural Studies, School of Music, School of Performance & Cultural Industries, and School of Design; and at York St John University. Requirements for practice-led research degree candidatures are available in the relevant School/ York St John University Handbooks and from Research Student Administration.

The degree of Doctor of Education

28. To qualify for the award of the degree of Doctor of Education each candidate must complete the requirements of the prescribed programme of study, training, professional practice and supervised research in education, must meet the required learning outcomes and satisfy the examiners that his/her achievement is of sufficient merit and that his/her thesis contains evidence of originality and independent critical ability and matter suitable for publication through:
- (a) presenting a thesis on the subject of his/her advanced study and research, *and*
 - (b) presenting him/herself for an oral examination and such other tests as the examiners may prescribe.

The degree of Doctor of Clinical Psychology

29. To qualify for the award of the degree of Doctor of Clinical Psychology each candidate must complete the requirements of the prescribed programme of study, training, clinical practice and supervised research in clinical psychology, must meet the required learning outcomes and satisfy the examiners that his/her achievement is of sufficient merit and that his/her thesis contains evidence of originality and independent critical ability and matter suitable for publication through:
- (a) presenting a thesis on the subject of his/her advanced study and research, *and*
 - (b) presenting him/herself for an oral examination and such other tests as the examiners may prescribe.

The degree of Doctor of Public Management

30. To qualify for the award of the degree of Doctor of Public Management each candidate must complete the requirements of the prescribed programme of study, training and supervised research in public management, must meet the required learning outcomes and satisfy the examiners that his/her achievement is of sufficient merit and that his/her thesis contains evidence of originality and independent critical ability and matter suitable for publication through:
- (a) presenting a thesis on the subject of his/her advanced study and research, *and*
 - (b) presenting him/herself for an oral examination and such other tests as the examiners may prescribe.

The degree of Doctor of Business and Management¹

31. To qualify for the award of the degree of Doctor of Business and Management each candidate must complete the requirements of the prescribed programme of study, training and supervised research in business and management, must meet the required learning outcomes and satisfy the examiners that his/her achievement is of sufficient merit and that his/her thesis contains evidence of originality and independent critical ability and matter suitable for publication through:

¹ The DBM is suspended with effect from 2011-12

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- (a) presenting a thesis on the subject of his/her advanced study and research, *and*
- (b) presenting him/herself for an oral examination and such other tests as the examiners may prescribe.

The degree of Doctor of Clinical Dentistry

32. To qualify for the award of the degree of Doctor of Clinical Dentistry each candidate must complete the requirements of the prescribed programme of study, training and supervised research in dentistry, must meet the required learning outcomes and satisfy the examiners that his/her achievement is of sufficient merit and that his/her thesis contains evidence of originality and independent critical ability and matter suitable for publication through:

- (a) presenting a thesis on the subject of his/her advanced study and research, *and*
- (b) presenting him/herself for an oral examination and other such tests as the examiners may prescribe.

The degree of Doctor of Health and Social Care

33. To qualify for the award of the degree of Doctor of Health and Social Care each candidate must complete the requirements of the prescribed programme of study, training and supervised research in health and social care, must meet the required learning outcomes and satisfy the examiners that his/her achievement is of sufficient merit and that his/her thesis contains evidence of originality and independent critical ability and matter suitable for publication through:

- (a) presenting a thesis on the subject of his/her advanced study and research, *and*
- (b) presenting him/herself for an oral examination and other such tests as the examiners may prescribe.

The degrees of Doctor of Philosophy and Master (Integrated)

34. To qualify for the award of the integrated degrees of Doctor of Philosophy and the relevant degree of Master the candidate must complete the requirements of the prescribed programme of advanced study, training and supervised research as approved by the relevant committee, must meet the required learning outcomes and satisfy the examiners that his/her achievement is of sufficient merit and that his/her thesis contains evidence of originality and independent critical ability and matter suitable for publication through:

- (a) presenting a thesis on the subject of his/her advanced study and research, *and*
- (b) presenting him/herself for an oral examination and such other tests as the examiners may prescribe.

The degree of Master of Philosophy

35. To qualify for the award of the degree of Master of Philosophy, each candidate must meet the required learning outcomes and satisfy the examiners that his/her achievement is of sufficient merit and that his/her thesis contains an independent contribution to knowledge and scholarship and material at a level suitable for publication through:

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- (a) presenting a thesis or alternative form of thesis as prescribed under regulation 36 on the subject of his/her advanced study and research, *and*
 - (b) presenting him/herself for an oral examination and such other tests as the examiners may prescribe.
36. Candidates in certain disciplines may be granted permission by the relevant committee to present for examination an alternative form of thesis as follows:
- For practice-led research:* a body of work demonstrating an independent contribution to knowledge and scholarship, which comprises of a substantial body of creative practice¹ produced by the candidate in pursuit of the degree, displaying critical understanding and being worthy of public presentation, together with a written submission, which provides an exploration of the research question(s) and indicates the manner in which the research is embodied in the practice, which will normally be between 10,000-30,000 words.
37. The degree of Master of Philosophy may be awarded with distinction for work of exceptional merit.

Masters degrees by research

Master of Arts, Master of Education, Master of Science, Master of Science (Engineering)

38. Applicants for acceptance for the degree under regulation 1c) must present themselves for interview by the appropriate committee before taking the special preliminary examination: both the interview and the preliminary examination may include questions outside the immediate subject of research or programme of research training which the candidate wishes to pursue.
39. To qualify for the award of a Masters degree by research each candidate must meet the required learning outcomes and satisfy the examiners that his/her achievement is of sufficient merit through:
- (a) presenting a thesis on the subject of his/her research which contains material at a level suitable for publication in accordance with the requirements of the relevant prescribed programme of study, *and*
 - (b) presenting him/herself for oral examination and other such tests as the examiners may prescribe.
40. Masters degrees by research may be awarded with distinction for work of exceptional merit.

¹ Areas of creative practice are currently offered in the following Schools: School of English, School of Fine Art, History of Art & Cultural Studies, School of Music, School of Performance & Cultural Industries, and School of Design; and at York St John University. Requirements for practice-led research degree candidatures are available in the relevant School/ York St John University Handbooks and from Research Student Administration.

REGULATIONS

Doctor of Philosophy

Programme of Study for the degree of Doctor of Philosophy

1. Candidates may undertake study for the degree of PhD in any Faculty of the University or accredited Institution, or in association with another institution approved as a partner to offer Joint degrees with the University, under the supervision of a member of staff who satisfies the eligibility requirements specified by the relevant committee. Supervisors will be appointed at the commencement of the programme of study.
2. The requirements for the degree, including periods of study and examination requirements are set out in Ordinance X and its associated regulations¹.
3. All candidates for the degree of PhD are expected to undertake appropriate generic training. Candidates in some Faculties may be required to undertake some elements of advanced study and complete written examinations satisfactorily before proceeding to the submission of a thesis.
4. Only members of staff of the University and affiliated institutions may apply for candidature for the degree of PhD undertaken by published work. The University publishes the detailed arrangements on an annual basis.

Split-site Candidatures

(i) for those who commenced study before September 2007

5. Prior to acceptance for the degree, applicants for the degree of PhD under the International 'Split-Site' arrangements are required to demonstrate that, whilst not in Leeds, they are able to work within an appropriate academic environment and are required, before acceptance, to furnish a statement from an official in a position to guarantee access to appropriate academic and research facilities. Whilst not in residency in the University candidates under the international "split-site" arrangements are permitted to study either on a full-time or part-time basis. A period between 4 and 12 months should normally be spent in full-time residency in the University.

(ii) for those who commenced study from September 2007 onwards

6. Three models of split-site PhD study are available:
 - (a) Model A involving a Strategic Partnership with another University, Research Institute or Commercial/Industrial Organisation (available from September 2007) Subject to an agreement being reached between the University and the other organisation, applicants may be accepted for full-time PhD research degree study for a standard period of study of 3.5 years. Applicants will normally be required to have obtained a relevant degree of at least equivalent to a UK second class honours degree as well

¹ The normal standard period of study for a full-time PhD is 3 calendar years, except for certain schemes including some within the Faculty of Biological Sciences and within Doctoral Training Centres where the normal period of full-time study is 4 calendar years. Special arrangements may also apply to the split-site programmes and to programmes leading to joint awards with other institutions.

as at least 6.5 on IELTS (with no component below 6.0) or an equivalent English language qualification. Some Schools may require higher levels of English language. There is normally a minimum requirement of 18 months full-time study in residence at the University of Leeds but overall the candidate is normally required to spend 50% of the candidature in each organisation.

(b) Model B involving a Capacity Building Partnership normally with an international academic, research or commercial/industrial organisation (available from September 2010)

Subject to an agreement being reached between the University and the other organisation, applicants may be accepted for PhD research degree study. Such applicants will normally be required to have obtained a relevant degree of at least equivalent to a UK second class honours degree as well as at least 6.5 on IELTS (with no component below 6.0) or an equivalent English language qualification. Some Schools may require higher levels of English language. Study will normally be by full-time study over a period of 3.5 years. There is normally a minimum requirement of 18 months full-time study at residence at Leeds but overall the candidate is normally required to spend 50% of the candidature in each organisation.

(c) (Model C involving individual students studying mainly on a part-time basis Subject to a statement of support from the applicant's employer, which guarantees, with appropriate evidence, that relevant resources and facilities are in place for the research, applicants may be accepted for PhD research degree study. Applicants will normally be expected to have obtained a relevant degree at least equivalent to a UK upper second class honours and a Master's degree as well as at least 6.5 on IELTS (with no component below 6.0) or an equivalent English language qualification. Some Schools may require higher levels of English language. The period of study will extend over a standard period of five years and the method of study will be mainly part-time with normally full-time attendance in residence at the University of Leeds for a period of at least 8 months over the course of the programme. The first two months should normally be undertaken at the commencement of the candidature in full-time attendance in residence at Leeds.

Progress and Monitoring

7. Candidates will in the first instance be accepted either as a provisional candidate for the degree of PhD or as a postgraduate research student. After the initial period of provisional registration, candidates are subject to the process whereby they are formally assessed¹ and, if successful in the assessment, are transferred to the specific degree category of PhD or MPhil. Full-time candidates must undergo assessment by no later than 12 months of study. Part-time candidates must undergo assessment by no later than 24 months of study. Candidates studying under the 'Split-Site' arrangements must present at the University of Leeds for transfer assessment. If they are unable to do so

¹ Some programmes in certain Doctoral Training Centres and in the Faculty of Biological Sciences have a standard period of study of four years full-time and the assessment for transfer to a specific degree category of either PhD or MPhil takes place towards the end of the second year.

their studies may have to be suspended until such a time as they are able to attend for assessment.

8. The decision to transfer will be based on the submission of appropriate material for assessment and all students must undergo an oral examination by an Assessment Panel which must include at least one independent individual who has not been involved in the supervisory support of the candidate. The student will be interviewed by the Assessment Panel in the form of a viva voce examination.
9. A case for an extension to the period of provisional registration would have to be made on academic grounds to the relevant committee. In such cases any period of extension will be no more than six months.
10. The arrangements for formal reports on progress by the supervisor(s) are described in the University Code of Practice for Research Degree Candidatures which is published in the Research Student Handbook.

Examination and Assessment

11. Candidates must present a thesis¹ (100,000 words maximum) on the subject of his/her research and satisfy the examiners as specified in Ordinance X and its associated Regulations.
12. Except with the special permission of the relevant committee, every candidate is required to submit his/her thesis for examination for the degree of Doctor of Philosophy by no later than:
 - (i) the end of the fourth year after his/her entry upon the approved course of full-time study and research which includes Model A and Model B of the split-site arrangements;
or
 - (ii) the end of the fifth year after his/her entry upon an approved course of full-time study and research within a Doctoral Training Centre where the standard period of study is four years;
or
 - (iii) the end of the seventh year after his/her entry upon the approved course of part-time study and research including Model C of the split-site arrangements;
or
 - (iv) staff candidates for the degree of PhD by published work may present for examination at any stage, after consultation with their adviser.
13. As permitted in Ordinance X (Article 8), when the progress and quality of the candidate's research justify it, the relevant committee is empowered to reduce the required minimum period of study provided that no candidate shall submit for examination of the thesis before the completion of:
 - (i) a total of two calendar years of full-time study;

¹ Except where an alternative method of submission is stipulated in the Regulations for Ordinance X. In Schools where an alternative form of submission is permitted, specific regulations for the binding and presentation of the work are published.

DOCTOR OF PHILOSOPHY

- (ii) a total of three calendar years of part-time study;
 - (iii) a total of three calendar years for candidates studying under the split-site arrangements;
 - (iv) staff candidates for the degree of PhD by published work may present for examination at any stage, after consultation with their adviser.
14. Following examination, the examiners will be asked to make one of the following recommendations
- (a) Pass.
 - (b) Pass (subject to the correction of 'minor editorial corrections' or 'stated minor deficiencies'): these corrections must be made within four or twelve weeks respectively from the date of the oral examination. The internal examiner is responsible for ensuring that minor errors or minor deficiencies are corrected by the candidate. The degree will not be awarded until confirmation that the corrections have been completed is received.
 - (c) Referral (see 15 below)
 - (d) Recommend award of MPhil¹: for those candidates who fail to achieve the standard for the award of a PhD but who nevertheless satisfy the criteria for the award of the degree of MPhil.
 - (e) Recommend award of MPhil¹ (subject to the correction of 'minor editorial corrections' or 'stated minor deficiencies'): These corrections must be made within four or twelve weeks respectively from the date of the oral examination. The internal examiner is responsible for ensuring that minor errors or minor deficiencies are corrected by the candidate. The degree will not be awarded until confirmation that the corrections have been completed is received
 - (f) Referral for MPhil¹ (see 15)
 - (g) Fail: the candidate has no further opportunity for submission.
15. If the thesis is not considered to be of sufficiently high standard to recommend the award of the degree of Doctor of Philosophy but there is evidence of the potential of a successful PhD or MPhil submission, then on the recommendation of the examiners either (a) the candidate will be granted permission to resubmit the work in a revised form for the degree of PhD within a period of eighteen months, on one occasion only and on payment of an additional fee, or (b) the candidate will be granted permission to resubmit the work in a revised form for the degree of MPhil within a period of twelve months, on one occasion only and on payment of an additional fee.
16. Any candidate whose thesis has been referred for the degree of PhD may, subject to approval by the Head of their School, exercise the option of resubmitting a revised thesis for consideration for the award of the degree of Master of Philosophy.

¹ In these circumstances the degree of MPhil may not be awarded with distinction

17. The recommendation of the examiners is subject to confirmation by the Graduate Board's Examinations Group which will consider the examiners' report. In the case of joint awards with another institution the recommendation of the Examiners is also subject to confirmation by the other institution.
18. The Learning Outcomes for the degree of Doctor of Philosophy are published below.

Learning Outcomes / Transferable Key Skills / Learning Context / Assessment for PhD

1. Learning Outcomes

On completion of the research programme students should have shown evidence of being able:

- to discover, interpret and communicate new knowledge through original research and/or scholarship of publishable quality which satisfies peer review;
- to present and defend original research outcomes which extend the forefront of a discipline or relevant area of professional/clinical practice;
- to demonstrate systematic and extensive knowledge of the subject area and expertise in generic and subject/professional skills;
- to take a proactive and self-reflective role in working and to develop professional relationships with others where appropriate;
- to independently and proactively formulate ideas and hypotheses and to design, develop, implement and execute plans by which to evaluate these;
- to critically and creatively evaluate current issues, research and advanced scholarship in the discipline;
- to demonstrate systematic knowledge of and be able to critically assess, analyse and engage with the ethical and legal context of their research and any ethical and legal implications of their research.

2. Transferable (Key) Skills

Students will have had the opportunity to acquire the following abilities through the research training and research specified for the programme

- the skills necessary for a career as a researcher and/or for employment in a senior and leading capacity in a relevant area of professional/clinical practice or industry;
- evaluating their own achievement and that of others;
- self-direction and effective decision making in complex and unpredictable situations;
- independent learning and the ability to work in a way which ensures continuing professional development;

3. Learning Context

This will include the critical analysis of, and decision making in, complex and unpredictable professional and/or clinical situations. The structure of the programme will provide research and/or professional training, breadth and depth of study and opportunities for drawing upon appropriate resources and techniques. Opportunities will be provided for students to:

- develop to a high level interests and informed opinions

DOCTOR OF PHILOSOPHY

- develop to a high level their design and management of their learning activities
- develop to a high level their communication of their conclusions;
- make an original contribution to the field

Students will be expected to engage in the exercise of autonomous initiative in their study and work in professional environments.

4. Assessment

Achievement will be assessed by the examination of the candidate's thesis¹ and performance under oral examination. Assessment will involve the achievement of the candidate in:

- evidencing an ability to conduct original and independent broad and in-depth enquiry within the discipline or within different aspects of the area of professional/clinical practice normally leading to published work;
- drawing on and/or developing a range of research techniques and methodologies appropriate to enquiries into the discipline/area of professional practice;
- demonstrating independent critical ability in the application of breadth and depth of knowledge to complex issues within the discipline or specialist area of professional/clinical practice;
- drawing on a range of perspectives on the area of study;
- evaluating and criticising received opinion;
- making reasoned and well-informed judgements on complex issues within the specialism whilst understanding the limitations on judgements made in the absence of complete data
- the written style and overall presentation of the thesis.

¹ or alternative form of thesis as prescribed under regulation 25

Integrated degrees of PhD and Master (MA, LLM or MSc)

Programme of Study for Integrated degrees of PhD and Master (MA, LLM or MSc)

See the Programme of Study entry for the individual integrated PhD and Masters programmes in subsequent sections for further information.

1. The Integrated degrees of PhD and Master, which provide for the double award of both degrees, are undertaken by a combination of taught specialist modules, training and skills courses and research study. This integrated approach offers students a learning environment in which to broaden and deepen subject knowledge while providing the opportunity for inter-disciplinary study to extend their expertise in new directions.
2. The University currently offers 9 programmes leading to the Integrated degrees of PhD and Master:
 - Integrated degree of PhD and MA (Educational Studies) (see page 27)
 - Integrated degree of PhD and LLM (Legal Studies) (see page 33)
 - Integrated degree of PhD and MSc (Studies at the Life Science/Physical Sciences Interface) (see page 39).
 - Integrated degree of PhD and MSc (Oral Sciences) (see page 41)
 - Integrated degree of PhD and MSc (Low Carbon Technologies) (see page 45)
 - Integrated degree of PhD and MSc (Nuclear Fuel Cycle) (see page 51).
 - Integrated degree of PhD and MSc (Chemical Process Research and Development) (see page 57).
 - Integrated degree of PhD and MSc (Medical and Biological Engineering) (see page 63).
 - Integrated degree of PhD and MSc (Molecular-scale Engineering) (see page 69).
3. Applicants for the degrees must normally possess the equivalent of a good honours degree (minimum Iii or equivalent) and appropriate English language qualifications to meet the University's entry requirements. There will be one entry point for the Integrated degrees of PhD and Master that will be in September/October at the beginning of each session.

Programme of Study, Progress and Monitoring

4. The integrated degrees of PhD and Master are normally 4 year full-time programmes of study.
5. Progress is formally reviewed at appropriate stages and, at least annually, candidates are required to undergo a thorough review process, emphasising the different stages in the progress, development and training. The arrangements for formal reports on progress by the supervisors are described in the University Code of Practice for Research Degree Candidatures.
6. The relevant committee has modified the arrangements for provisional registration for the Integrated degrees of PhD and Master in accordance with article 4(c) of Ordinance X. Candidates are accepted for study to the registration category of Postgraduate Research. Upon completion of the first year, candidates are required to undergo an assessment for transfer to Provisional PhD status. If successful in transfer to Provisional

PhD status, candidates will be required to undergo the formal, rigorous assessment procedure for transfer to full PhD status before the end of the second year of study. The decision to transfer to full PhD status will be based on the submission of appropriate material for assessment and all students must undergo an oral examination by an Assessment Panel which must include at least one independent individual who has not been involved in the supervisory support of the candidate. The student will be interviewed by the Assessment Panel in the form of a viva voce examination.

Supervision

7. Two supervisors will be appointed for each student at the commencement of the candidature to guide the student through an appropriate pathway of optional courses and to assist with planning for the integration of all the elements of the programme.
8. The supervisors will play a key role throughout in integrating all the elements of the programme. In all years of study the supervisors will take responsibility for ensuring that appropriate skills and other training is undertaken and that the University's policy on Personal Development Planning is applied.

Examination and Assessment

9. The normal expectation is that candidates will successfully complete a number of modular courses before the commencement of Year 3 of study and submit their theses for examination by the end of Year 4, although an additional overtime period of up to 12 months will be available if necessary. Some candidates may leave the programme at an earlier stage and may be awarded an alternative qualification, subject to fulfilling the relevant requirements (see 21 below).
10. Candidates are required to submit a thesis (100,000 words maximum) for examination by no later than the end of the fifth year after entry upon the approved course of study and research.
11. When the progress and quality of the candidate's research justify it, the relevant committee is empowered to reduce the required period of study provided that no candidate shall submit a thesis for examination before the completion of a total of three calendar years of study.
12. Following final examination of the thesis and after completion of the programme of study the examiners will be asked to select a maximum of two from the following recommendations:
 - (a) Pass for the Integrated programme.
 - (b) Pass (subject to the correction of 'minor editorial corrections' or 'stated minor deficiencies' in the PhD thesis): these corrections must be made within four or twelve weeks respectively from the date of the oral examination. The internal examiner is responsible for ensuring that minor errors or minor deficiencies are corrected by the candidate. The degree will not be awarded until confirmation that the corrections have been completed is received.
 - (c) Referral (see 13 below).

INTEGRATED DEGREES OF PhD AND MASTER (MA, LL.M or MSc)

- (d) Recommend award of MPhil¹: for those candidates who fail to achieve the standard for the award of a PhD but who nevertheless satisfy the criteria for the award of the degree of MPhil.
 - (e) Recommend award of MPhil¹ (subject to the correction of 'minor editorial corrections' or 'stated minor deficiencies'): these corrections must be made within four or twelve weeks respectively from the date of the oral examination. The internal examiner is responsible for ensuring that minor errors or minor deficiencies are corrected by the candidate. The degree will not be awarded until confirmation that the corrections have been completed is received.
 - (f) Referral for MPhil¹ (see 13 below)
 - (g) Confirm the award of the degree of Master (if the candidate has satisfied the regulations for the award of that degree under Ordinance XI (Taught Postgraduate Awards) under the relevant rules for award).
 - (h) Fail: the candidate has no further opportunity for submission for the Integrated degrees of PhD and Master.
13. If the thesis is not considered to be of sufficiently high standard to recommend the award of the degree but there is evidence of the potential of a successful PhD or MPhil submission, then on the recommendation of the examiners either (a) the candidate will be granted permission to resubmit the work in a revised form for the degree of PhD within a period of eighteen months, on one occasion only and on payment of an additional fee, or (b) the candidate will be granted permission to resubmit the work in a revised form for the degree of MPhil within a period of twelve months, on one occasion only and on payment of an additional fee.
14. Any candidate whose thesis has been referred for the degree of PhD may, subject to approval by the Head of their School, exercise the option of resubmitting a revised thesis for consideration for the award of the degree of Master of Philosophy.
15. The degree of PhD or MPhil may only be awarded on the submission of a thesis which satisfies the examiners, as detailed in Ordinance X and its associated regulations.
16. The recommendation of the examiners is subject to confirmation by the Examinations Group of the Graduate Board which will consider the examiners' report normally at the next meeting.
17. Candidates for the Integrated degrees of PhD and Master are required to meet the learning outcomes for both the degrees of PhD and Master, which are described in the additional information for the specific Integrated degree programme.

Award of MPhil

18. Candidates for the Integrated Degrees of PhD and Master, who have fulfilled the requirements for the award of the degree of Master and then proceed to examination for the award of the degree of PhD, but who are not successful in the PhD examination are eligible for the award of the degree of MPhil if they satisfy the requirements for

¹ In such cases the degree of MPhil may not be awarded with distinction

examination set out in Article 13 of Ordinance X. If successful in the examination for the MPhil degree such candidates will receive two separate degree awards, namely the relevant degree of Master (MA, LLM or MSc) and the award of the degree of Master of Philosophy.

Course Failure

19. Candidates will normally be deemed to have failed the Programme of Study for the Integrated degree of PhD and Master and be asked to withdraw from the programme if:
- (i) they fail to meet the requirements for the award of the degree of Master (as set out in Ordinance XI (Taught Postgraduate Awards)); or
 - (ii) unless otherwise stated in the programme of study entry for the specific subject area, they fail to Pass at least 180 taught credits with at least 50% in each course undertaken¹; or
 - (iii) they fail to satisfy the transfer panels in Year 1 or 2; or
 - (iv) they fail to satisfy the examiners in the research thesis (there is no opportunity for resubmission where the examiners recommend that a research degree thesis be failed).
20. Candidates who do not achieve a satisfactory standard at the first attempt in examinations or assessments for modular courses must undertake any re-examination, as set out in Regulation 18 of the Regulations for Ordinance X. They must achieve the required standard before being permitted to submit a thesis for examination.
21. Candidates are required to pass to the required standard all compulsory courses and modules which form part of their prescribed programme of study.

Exit Paths

22. Candidates are eligible for the award of Postgraduate Certificate, Postgraduate Diploma and Mastership qualifications at certain exit points in the programme, provided that they have satisfied the relevant regulations for the award of these qualifications as set out in Ordinance XI (Taught Postgraduate Awards) and the Rules for award, if they either decide to leave or do not progress beyond the relevant stages.
- Postgraduate Certificate (60 taught credits)
 - Postgraduate Diploma (120 taught credits)
 - MA and MSc (Candidates must achieve an average of 50% over all 180 credits of which 150 credits must be passed at 50% or more).

¹ The precise wording of this requirement came into force for candidates entering from September/October 2006.

Integrated degree of PhD and MA (Educational Studies)¹

Programme of Study for Integrated degree of PhD and MA (Educational Studies)²

Year One (a total of 90 credits in taught modular courses will be taken as well as the research training, induction and general skills training)

- The candidate will commence research under the direction of their supervisor(s)
- Compulsory training and skills modules (30 credits): Foundations of Educational Research 1 (EDUC 5028M)
- At least two SDDU/ISS/Library Courses, including “Starting your research degree” and other courses identified by the supervisor(s) in response to students’ needs.
- Compulsory specialised subject modules (60 credits) which are route specific. Candidates will study one of the following routes:

TESOL

Investigating Language for TESOL (30 credits): EDUC 5902M:

Or Teaching & Learning in TESOL (30 credits): EDUC 5901M:

Candidates are also required to choose a further 30 credits from a list of optional modules

Science Education

Science Education: Teaching and Learning (30 credits): EDUC 5146M

Science Education: Curriculum & Professional Development (30 credits): EDUC5148M

Mathematics Education

Trends in Research in Mathematics Education (30 credits): EDUC 5769M

and Either

Mathematics: Curriculum and Assessment (30 credits): EDUC 5765M

Or

Learning and Teaching Mathematics (30 credits): EDUC 5767M

Special Educational Needs

Learning Difficulties (30 credits): EDUC 5815M

and Either

Principles and Practices (30 credits): EDUC 5804M

Or

SEN: International Perspectives (30 credits): EDUC 5808M

Development Disorders

Development Disorders I: Dyslexia & Developmental Coordination Disorder (30 credits): EDUC 5811M

¹ Programme not offered in 2011-12

² See also the general Programme of Study for the Integrated degrees of PhD and Master (MA, LLM or MSc, page 23) which specifies the overall arrangements for the University Integrated PhD and Masters programme.

INTEGRATED DEGREE OF PhD AND MA (EDUCATIONAL STUDIES)

Developmental Disorders II: Attention Deficit Disorder and Autistic Spectrum Disorder (30 credits): EDUC 5812M

Lifelong Learning

Lifelong Learning in Changing Contexts (30 credits): EDUC 5485M

Researching Lifelong Learning (30 credits): EDUC 5495M

ICT and Education

Either = Issues in ICT and Education (30 credits): EDUC 5251M

Or = Learning with Virtual Worlds (30 credits): EDUC 5252M

And either:

Design and Evaluation of Web-based Learning Environments (30 credits): EDUC 5253M

Or

E-Learning: Principles and Practices (30 credits): EDUC 5254M

ICT and TESOL

Language Learning and Teaching with ICT (30 credits): EDUC 5979M

And either:

Investigating Language for TESOL (30 credits): EDUC 5902M

Or

Teaching & Learning in TESOL (30 credits): EDUC 5901M

Year Two (a total of 90 credits in taught modular courses will be taken as well as the research project, together with at least two SDDU/ISS/Library Courses identified by the supervisor(s) in response to students' needs):

- The candidate will continue research under the direction of their supervisor(s)
- Compulsory training and skills modules (up to 30 credits): Foundations of Educational Research 2 (EDUC 5029M)
- A compulsory Mastership Report Dissertation (60 credits) (EDUC 5004M).

Years Three and Four

- The candidate will continue research under the direction of their supervisor(s)
- Optional and compulsory non-credit bearing training and skills modules selected as appropriate from the wide-range of training courses provided at the University of Leeds.

Changes may be made from time to time to the title of modular courses and the optional modular courses that are available.

Learning Outcomes / Transferable Key Skills / Learning Context / Assessment – overall programme PhD and MA (Educational Studies)

1. Learning Outcomes

Students will be able to

- discover, interpret and communicate new knowledge through original research of publishable quality which would satisfy peer review and/or contribute to scholarship within a professional context;
- independently and proactively formulate ideas and design, develop, implement and execute plans by which to evaluate these;

INTEGRATED DEGREE OF PhD AND MA (EDUCATIONAL STUDIES)

- demonstrate systematic and extensive knowledge of the subject and expertise in generic and subject/professional skills;
- critically and creatively evaluate current issues, research and advanced scholarship in the relevant field of education;
- demonstrate a comprehensive understanding of techniques applicable to own research and engage with the relevant ethical or legal issues in the specialist educational field;
- present and defend research outcomes which extend the forefront of the discipline and/or relevant area of professional practice;
- take a proactive and self reflective role in working and develop professional relationships with others where appropriate;

2. Transferable (Key) Skills

Students will have had the opportunity to acquire the following abilities through the research training and research specified for the programme

- the skills necessary for a career as a researcher and/or for employment in a senior and leading capacity in a relevant area of professional practice or industry;
- evaluating their own achievement and that of others;
- self-direction and effective decision making in complex and unpredictable situations;
- independent learning and the ability to work in a way which ensures continuing professional development;

3. Learning Context

The learning context will include the critical analysis of, and decision making in, complex and unpredictable professional situations. The structure of the programme will provide research and/or professional training, breadth and depth of study and opportunities for drawing upon appropriate resources and techniques. Opportunities will be provided for students to:

- develop to a high level interests and informed opinions
- develop to a high level their design and management of their learning activities
- develop to a high level their communication of their conclusions;
- make an original contribution to the field

Students will be expected to engage in the exercise of autonomous initiative in their study and work in professional environments.

4. Assessment

Achievement will be assessed by the examination of the candidate's thesis and performance under oral examination. This will also include the assessment of achievement by a variety of methods in accordance with the learning outcomes of any taught modules specified for the programme. Assessment will involve the achievement of the candidate in:

- evidencing an ability to conduct original and independent broad and in-depth enquiry within the discipline or within different aspects of the area of professional practice normally leading to published work;
- drawing on and/or developing a range of research techniques and methodologies appropriate to enquiries into the discipline/area of professional practice;

- demonstrating independent critical ability in the application of breadth and depth of knowledge to complex issues within the discipline or specialist area of professional practice;
- drawing on a range of perspectives on the area of study;
- evaluating and criticising received opinion;
- making reasoned and well-informed judgements on complex issues within the specialism whilst understanding the limitations on judgements made in the absence of complete data
- the written style and overall presentation of the thesis

Learning Outcomes / Transferable Key Skills / Learning Context / Assessment for MA (Educational Studies)

As the degree programme contains a Masters level qualification, candidates are required to achieve the Masters learning outcomes at the appropriate stage within the Integrated PhD and Masters programme.

1. Learning Outcomes

Students will be able to

- demonstrate in-depth, specialist knowledge and mastery of techniques relevant to the discipline and/or to demonstrate a sophisticated understanding of concepts, information and techniques at the forefront of the discipline;
- exhibit mastery in the exercise of generic and subject-specific intellectual abilities;
- demonstrate a comprehensive understanding of techniques applicable to their own research or advanced scholarship;
- take a proactive and self-reflective role in working with and developing professional relationships with others;
- proactively formulate ideas and hypotheses and develop, implement and execute plans by which to develop these;
- critically and creatively evaluate current issues, research and advanced scholarship in the discipline.

2. Transferable (key) skills

Masters (Taught) students will have had the opportunity to acquire the following abilities as defined in the modules specified for the programme:

- the skills necessary to undertake a higher research degree and/or for employment in a higher capacity in industry or area of professional practice;
- evaluating their own achievement and that of others;
- self direction and effective decision making in complex and unpredictable situations;
- independent learning and the ability to work in a way which ensures continuing professional development;
- critically to engage in the development of professional/disciplinary boundaries and norms.

3. Learning Context

For Masters (Taught) students the learning context will include the analysis of, and decision making in, complex and unpredictable situations. The structure of the programme will provide breadth and/or depth of study and opportunities for drawing upon appropriate resources and techniques. Opportunities will be provided for students to develop:

- interests and informed opinions
- their involvement in the design and management of their learning activities
- their communication of their conclusions.

Students will be expected to progress to fully autonomous study and work.

4. Assessment

Achievement for the degree of Master (taught programme) will be assessed by a variety of methods in accordance with the learning outcomes of the modules specified for the year/programme and will involve the achievement of the students in:

- evidencing an ability to conduct independent in-depth enquiry within the discipline;
- demonstrating the ability to apply breadth and/or depth of knowledge to a complex specialist area;
- drawing on a range of perspectives on an area of study;
- evaluating and criticising received opinion;
- make reasoned judgements whilst understanding the limitations on judgements made in the absence of complete data.

Integrated degree of PhD and LL.M (Legal Studies)

Programme of Study for Integrated degree of PhD and LL.M (Legal Studies)¹

A minimum of 180 credits in modular courses will be taken in Years One and Two:

Year One (a total of 90 credits in taught modular courses will be taken as well as the research project)

- The candidate will commence research under the direction of their supervisor(s)
- Compulsory training and skills modules (30 credits): Research Methods (LAW 5660M) and Generic Training and Skills I (LAW 5001M)
- Compulsory specialised subject modules (60 credits) which are route specific. Candidates will study one of the following routes:

Cyberlaw

Advanced Cyberlaw (LAW5231M, 30 credits)

E-Commerce Law and Policy (LAW5236M, 15 credits)

And candidates are required to choose 15 credits from the list of optional modules

Criminal Law

Advanced Criminal Law (LAW5740M, 30 credits)

Criminal Justice Processes (LAW5010M, 30 credits)

European Legal Studies

European Business Law (LAW5320M, 15 credits)

European Human Rights (LAW5330M, 15 credits)

Introduction to the Constitutional and Institutional Structures of the EU (LAW5480M, 15 credits)

And candidates are required to choose 15 credits from the list of optional modules

European and International Business Law

European Business Law (LAW5320M, 15 credits)

Business and Institutional Transactions Law (LAW5595M, 15 credits)

Insolvency Law (LAW5460M, 15 credits)

And candidates are required to choose 15 credits from the list of optional modules

International Business Law

Business and Institutional Transactions Law (LAW5595M, 15 credits)

Insolvency Law (LAW5460M, 15 credits)

And candidates are required to choose 15 credits from the list of optional modules

Insolvency Law

Insolvency Law (LAW5460M, 15 credits)

Advanced Insolvency Law (LAW5465M, 15 credits)

International Corporate Rescue (LAW5567M, 15 credits)

And candidates are required to choose 15 credits from the list of optional modules

¹ See also the general Programme of Study for the Integrated degrees of PhD and Master (MA, LL.M or MSc, page 23) which specifies the overall arrangements for the University Integrated PhD and Masters programme.

INTEGRATED DEGREE OF PhD AND LLM (LEGAL STUDIES)

International Law

International Law (LAW5870M, 30 credits)

International Human Rights (LAW5860M, 15 credits)

And candidates are required to choose 15 credits from the list of optional modules

International Trade Law

World Trade Organisation Law (LAW5655M, 15 credits)

International Economic Law (LAW5830M, 15 credits)

International Law of Foreign Investment (LAW5465M, 15 credits)

And candidates are required to choose 15 credits from the list of optional modules

Human Rights

The Protection of Rights in National and International Law (LAW5900M, 30 credits)

And candidates are required to choose 30 credits from the list of optional modules.

This list of optional modules can be viewed at

<http://webprod1.leeds.ac.uk/banner/modulesearch.asp?L=TP&Y=201112&F=M&E=LAW&N=all&Elect=no&S=&A=any>

Year Two (a total of 90 credits in taught modular courses will be taken as well as the research project)

- The candidate will continue research under the direction of their supervisor(s)
- Compulsory training and skills modules (15 credits): Generic Training and Skills II (LAW 5002M)
- Compulsory specialist skills modules (75 credits): A 60 credit Mastership Report Dissertation (LAW 5780) and 15 credit Negotiated Study (LAW 5101M)

Years Three and Four

- The candidate will continue research under the direction of their supervisor(s)
- Optional and compulsory non credit bearing training and skills modules selected as appropriate from the wide-range of training courses provided at the University of Leeds, including SDDU: Thesis presentation (in Year 3) and SDDU: The final stages of your research degree (Year 4)

Changes may be made from time to time to the title of modular courses and the optional modular courses that are available.

Learning Outcomes / Transferable Key Skills / Learning Context / Assessment – overall programme PhD and LLM (Legal Studies)

1. Learning Outcomes

Knowledge & Understanding

- Demonstrate a comprehensive understanding of techniques and methodologies relevant to the discipline expressed through the presentation and defence of research outcomes which can potentially extend the forefront of academic research in Law and/or relevant area of professional practice;
- Demonstrate a systematic and extensive knowledge informed by the forefront of the discipline

INTEGRATED DEGREE OF PhD AND LLM (LEGAL STUDIES)

- analyse and engage with the implications of ethical issues to inform interpretation of own legal research

Academic/ Intellectual Skills

- critically and creatively evaluate current issues, research and advanced scholarship in the chosen specialist domain
- independently and proactively formulate ideas and hypotheses and design, develop, implement and execute plans by which to evaluate these

Other Skills/Attributes

- communicate clearly and effectively to a specialist audience
- to take a proactive and self-reflective role in working and to develop professional relationships with others where appropriate

Goals

- an individual, high quality academic research proposal (in Law) that contributes to the development and explanation of new knowledge through original research of publishable quality which satisfies peer review (Year 1)
- complete chapter, table of contents, abstract and bibliography of sufficient quality for transfer to PhD student status (year 2)

2. Transferable (Key) Skills

Students will have had the opportunity to acquire the following abilities through the research training and research specified for the programme

- the skills necessary for a career as a researcher and/or for employment in a senior and leading capacity in a relevant area of professional practice or industry;
- evaluating their own achievement and that of others;
- self-direction and effective decision making in complex and unpredictable situations;
- independent learning and the ability to work in a way which ensures continuing professional development;

3. Learning Context

The learning context will include the critical analysis of, and decision making in, complex and unpredictable professional situations. The structure of the programme will provide research and/or professional training, breadth and depth of study and opportunities for drawing upon appropriate resources and techniques. Opportunities will be provided for students to:

- develop to a high level interests and informed opinions
- develop to a high level their design and management of their learning activities
- develop to a high level their communication of their conclusions;
- make an original contribution to the field

Students will be expected to engage in the exercise of autonomous initiative in their study and work in professional environments.

4. Assessment

Achievement will be assessed by the examination of the candidate's thesis and performance under oral examination. Assessment will involve the achievement of the candidate in:

INTEGRATED DEGREE OF PhD AND LLM (LEGAL STUDIES)

- evidencing an ability to conduct original and independent broad and in-depth enquiry within the discipline or within different aspects of the area of professional practice normally leading to published work;
- drawing on and/or developing a range of research techniques and methodologies appropriate to enquiries into the discipline/area of professional practice;
- demonstrating independent critical ability in the application of breadth and depth of knowledge to complex issues within the discipline or specialist area of professional practice;
- drawing on a range of perspectives on the area of study;
- evaluating and criticising received opinion;
- making reasoned and well-informed judgements on complex issues within the specialism whilst understanding the limitations on judgements made in the absence of complete data
- the written style and overall presentation of the thesis.

Learning Outcomes / Transferable Key Skills / Learning Context / Assessment for LLM (Legal Studies)

As the degree programme contains a Masters level qualification, candidates are required to achieve the Masters learning outcomes at the appropriate stage within the Integrated PhD and Masters programme.

1. Learning Outcomes

- formulation of appropriate research questions and adoption of critical and analytical approach in legal research and writing
- formation of effective relationships with one's supervisor and others in the academic community
- enhanced understanding of the nature of academic research in law, including in depth knowledge of relevant legal research and current issues
- enhanced understanding of the various ways in which academic research is carried out: qualitative and quantitative research, comparative research, doctrinal approaches, and theoretical research, and the advantages and disadvantages of each of these
- ability to assess the ethical, moral and politics aspects of legal research and the implications of these for one's own research
- ability to engage critically with the products of legal research, in the form of scholarly books and academic articles acquisition of in depth knowledge of relevant legal research and current issues
- ability to engage critically with the products of legal research, in the form of scholarly books and academic articles acquisition of in depth knowledge of relevant legal research and current issues

2. Transferable (key) skills

LLM (Taught) students will have had the opportunity to acquire the following abilities as defined in the modules specified for the programme:

- the skills necessary to undertake a higher research degree and/or for employment in a higher capacity in industry or area of professional practice;

INTEGRATED DEGREE OF PhD AND LLM (LEGAL STUDIES)

- evaluating their own achievement and that of others;
- self direction and effective decision making in complex and unpredictable situations;
- independent learning and the ability to work in a way which ensures continuing professional development;
- critically to engage in the development of professional/disciplinary boundaries and norms

3. Learning Context

For LLM (Taught) students the learning context will include the analysis of, and decision making in, complex and unpredictable situations. The structure of the programme will provide breadth and/or depth of study and opportunities for drawing upon appropriate resources and techniques. Opportunities will be provided for students to develop:

- interests and informed opinions
- their involvement in the design and management of their learning activities
- their communication of their conclusions.

Students will be expected to progress to fully autonomous study and work.

4. Assessment

Achievement for the degree of LLM (taught programme) will be assessed by a variety of methods in accordance with the learning outcomes of the modules specified for the year/programme and will involve the achievement of the students in:

- evidencing an ability to conduct independent in-depth enquiry within the discipline;
- demonstrating the ability to apply breadth and/or depth of knowledge to a complex specialist area;
- drawing on a range of perspectives on an area of study;
- evaluating and criticising received opinion;
- make reasoned judgements whilst understanding the limitations on judgements made in the absence of complete data

Integrated degree of PhD and MSc (Studies at the Life Science/Physical Sciences Interface)¹

Programme of study for Integrated degree of PhD and MSc (Studies at the Life Science/Physical Sciences Interface)²

The programme is a collaborative research degree offered by the Universities of Leeds and Sheffield, which provides access to courses and supervision at both Institutions. Students will register for the award of the degree at either Leeds or Sheffield, depending on the location of their principal supervisor.

Year One (a total of up to 90 credits in taught modular courses will be taken as well as the research project)

- The candidate will commence research under the direction of their supervisor(s)
- Compulsory training and skills modules covering core topics (up to 75 credits) and other non-credit bearing training activity.
- Compulsory specialised subject modules (up to 15 credits) from the following list:

Either one optional Doctoral Training Centre self-study module taken under the “shell” module Structure, or an approved existing module. Specifically:

Either PHYS5610M (Structure/function of nucleic acids, Folding and assembly, Biocatalysis, Bioinformatics, Membrane proteins, Protein Engineering, Tissue Engineering, Protein DNA interactions)

Or one taken from the following list:

SOMS5500M Self-assembling nano-structured molecular materials and devices

SOMS5800M Bio-nanotechnology

SOMS5100M Generic methodologies for nanotechnology

Year Two (a total of up to 55 credits in taught modular courses will be taken, plus a 60 credit Preliminary Research Project, as well as the continuing research)

- Compulsory training and skills modules (25 credits), these will include research planning, presentation and management, taken under the transferable skills “shell” module (PHYS5630M)
- Compulsory specialised subject modules (up to 30 credits) selected from an extensive list from the two Universities taken under the “shell” module structure
- Preliminary Research Project (PHYS5700M) (60 credits)
- Continuing research towards PhD

Years Three and Four

- The candidate will continue research under the direction of their supervisor(s)

¹ No further candidates to be admitted to this programme. The final intake was in 2008-9.

² See also the general Programme of Study for the Integrated degrees of PhD and Master (MA, LL.M or MSc, page 23) which specifies the overall arrangements for the University Integrated PhD and Masters programme.

INTEGRATED DEGREE OF PhD AND MSc (STUDIES AT THE LIFE SCIENCE/PHYSICAL SCIENCES INTERFACE)

- Optional and compulsory non-credit bearing training and skills modules selected as appropriate from the wide range of training courses provided at the Universities of Leeds and Sheffield

Changes may be made from time to time to the title of modular courses and the optional modular courses that are available.

Integrated degree of PhD and MSc (Oral Sciences)

Programme of study for Integrated degree of PhD and MSc (Oral Sciences)¹

Year One (a total of 120 credits in taught modular courses will be taken as well as the research project)

- The candidate will commence research under the direction of their supervisor(s)
- Compulsory training and skills modules (30 credits).
- Compulsory specialised subject modules (90 credits) from a wide range of masters' level modules in the specialist areas of:

Dental Public Health,
Oral and Maxillofacial Surgery,
Oral Sciences,
Craniofacial Biology,
Paediatric Dentistry and Restorative Dentistry,

A wide range of Masters' level modules area also available from the Faculty of Biological Sciences.

- Optional course on the essentials of Learning and Teaching (and assessment). These courses are intended to prepare those candidates who wish to enter an academic career in Higher Education.

Year Two (a total of 60 credits in taught modular courses will be taken as well as the research project)

- The candidate will continue research under the direction of their supervisor(s)
- Compulsory training and skills modules (30 credits)
- Compulsory specialised subject modules (30 credits), from those available for Year One (excluding those taken during Year One)

Years Three and Four

- The candidate will continue research under the direction of their supervisor(s)
- Optional and compulsory non-credit bearing training and skills modules (e.g. Writing for Research Students in the Sciences, Thesis Presentation).

During the programme it is possible for candidates to attend optional courses on the essentials of Learning and Teaching (and assessment). These courses may assist those candidates who intend to enter an academic career in Higher Education.

Changes may be made from time to time to the title of modular courses and the optional modular courses that are available.

¹ See also the general Programme of Study for the Integrated degrees of PhD and Master (MA, LL.M or MSc, page 23) which specifies the overall arrangements for the University Integrated PhD and Masters programme.

Learning Outcomes / Transferable Key Skills / Learning Context / Assessment – overall programme PhD and MSc (Oral Sciences)

1. Learning Outcomes

To meet the Learning Outcomes through a combination of taught components, transferable skills training and research components the students will:

- interpret and communicate knowledge through research and scholarship of publishable quality that would satisfy peer review
- present and defend research outcomes which extend the forefront of the scientific discipline and/or area of clinical practice
- demonstrate a detailed knowledge of the subject area and expertise in generic and subject or professional skills
- be able to undertake decision-making in complex and unpredictable situations including, for clinical candidates, diagnosis and treatment planning (together with the limitations of treatment) and patient management
- be able to underpin clinical practice with theoretical knowledge (clinical candidates) and understand the relevance of their research and theoretic knowledge to clinical dentistry
- take a proactive and self-reflective role in working and develop professional relationships with others, particularly in relation to functioning within a multi-disciplinary team
- formulate ideas and hypotheses proactively and develop, implement and execute plans by which to evaluate these
- be able to articulate complex ideas and discuss them with peers and other professionals
- critically evaluate current issues, research and advanced scholarship
- understand relevant ethical and legal issues and be able to apply them in their research
- understand relevant health and safety issues
- demonstrate responsible working practice

2. Transferable (Key) Skills

Students will have had the opportunity to acquire the following abilities through the research training and research specified for the programme

- the skills necessary for a career as a researcher and/or for employment in a senior and leading capacity in a relevant area of professional/clinical practice or industry;
- evaluating their own achievement and that of others;
- self-direction and effective decision making in complex and unpredictable situations;
- independent learning and the ability to work in a way which ensures continuing professional development;

3. Learning Context

The learning context will include the critical analysis of, and decision making in, complex and unpredictable professional and/or clinical situations. The structure of the programme will provide research and/or professional training, breadth and depth of study and opportunities for drawing upon appropriate resources and techniques. Opportunities will be provided for students to:

INTEGRATED DEGREE OF PhD AND MSc (ORAL SCIENCES)

- develop to a high level interests and informed opinions
- develop to a high level their design and management of their learning activities
- develop to a high level their communication of their conclusions;
- make an original contribution to the field

Students will be expected to engage in the exercise of autonomous initiative in their study and work in professional environments.

4. Assessment

Achievement will be assessed by the examination of the candidate's thesis and performance under oral examination. Assessment will involve the achievement of the candidate in:

- evidencing an ability to conduct original and independent broad and in-depth enquiry within the discipline or within different aspects of the area of professional/clinical practice normally leading to published work;
- drawing on and/or developing a range of research techniques and methodologies appropriate to enquiries into the discipline/area of professional practice;
- demonstrating independent critical ability in the application of breadth and depth of knowledge to complex issues within the discipline or specialist area of professional/clinical practice;
- drawing on a range of perspectives on the area of study;
- evaluating and criticising received opinion;
- making reasoned and well-informed judgements on complex issues within the specialism whilst understanding the limitations on judgements made in the absence of complete data
- the written style and overall presentation of the thesis.

Learning Outcomes / Transferable Key Skills / Learning Context / Assessment for MSc (Oral Sciences)

As the degree programme contains a Masters level qualification, candidates are required to achieve the Masters learning outcomes at the appropriate stage within the Integrated PhD and Masters programme.

1. Learning Outcomes

On completion of the programme students should have shown evidence of being able:

- to demonstrate in-depth, specialist knowledge and mastery of techniques relevant to the discipline and/or to demonstrate a sophisticated understanding of concepts, information and techniques at the forefront of the discipline;
- to exhibit mastery in the exercise of generic and subject-specific intellectual abilities;
- to demonstrate a comprehensive understanding of techniques applicable to their own research or advanced scholarship;
- to take a proactive and self-reflective role in working and to develop professional relationships with others;
- proactively to formulate ideas and hypotheses and to develop, implement and execute plans by which to evaluate these;

INTEGRATED DEGREE OF PhD AND MSc (ORAL SCIENCES)

- critically and creatively to evaluate current issues, research and advanced scholarship in the discipline.
- to understand relevant ethical and legal issues
- to understand relevant health and safety issues
- to demonstrate responsible working practice

2. Transferable (key) skills

Masters (Taught) students will have had the opportunity to acquire the following abilities as defined in the modules specified for the programme:

- the skills necessary to undertake a higher research degree and/or for employment in a higher capacity in industry or area of professional practice;
- evaluating their own achievement and that of others;
- self direction and effective decision making in complex and unpredictable situations;
- independent learning and the ability to work in a way which ensures continuing professional development;
- critically to engage in the development of professional/disciplinary boundaries and norms.

3. Learning Context

For Masters (Taught) students the learning context will include the analysis of, and decision making in, complex and unpredictable situations. The structure of the programme will provide breadth and/or depth of study and opportunities for drawing upon appropriate resources and techniques. Opportunities will be provided for students to develop:

- interests and informed opinions
- their involvement in the design and management of their learning activities
- their communication of their conclusions

Students will be expected to progress to fully autonomous study and work.

4. Assessment

Achievement for the degree of Master (taught programme) will be assessed by a variety of methods in accordance with the learning outcomes of the modules specified for the year/programme and will involve the achievement of the students in:

- evidencing an ability to conduct independent in-depth enquiry within the discipline;
- demonstrating the ability to apply breadth and/or depth of knowledge to a complex specialist area;
- drawing on a range of perspectives on an area of study;
- evaluating and criticising received opinion;
- make reasoned judgements whilst understanding the limitations on judgements made in the absence of complete data.

Integrated degree of PhD and MSc (Low Carbon Technologies)

Programme of study for the Integrated degree of PhD and MSc (Low Carbon Technologies)¹

Year One (a total of 135 credits in taught modular courses will be taken as well as the research project)

- The candidate will commence research under the direction of their supervisor(s) from term 3.
- Compulsory training and skills module PEME5480 Transferable Skills & Professional Development 1 (15 credits). Candidates undertake a number of non-credit bearing generic skills courses from a range provided by central training providers (SDDU, ISS, Library), the Faculty of Engineering or outside bodies.
- Compulsory specialised subject modules as follows:

PEME5400 Interdisciplinary Research Projects (60 credits)
PEME5431 Sustainable Energy Processes (30 credits)
PEME5445 Climate Change Control Technology (15 credits)
PEME5561 Climate Change Mitigation (15 credits)

Year Two (a total of 45 credits in taught modular courses will be taken as well as the research project)

- The candidate will continue research under the direction of their supervisor(s)
- Compulsory training and skills module PEME5485 Transferable Skills & Professional Development 2 (15 credits) (including industrial/research organisation placement) with further non-credit bearing training courses being taken as appropriate.
- Compulsory specialised subject modules (30 credits) selected from the following list:

SOEE5600 Sustainability assessment: Tools and Techniques (15 credits)
PEME5420 Advanced Energy Systems (15 credits)
SOEE5051 Business, Environment & Sustainability (15 credits)
TRAN5031 Transport data collection and analysis (15 credits)
CCFD5170 Commercial Software (15 credits)
SOEE5193 Engineering Geology & Geophysics (15 credits)
PEME5470 Engine Emissions Measurement (15 credits)
TRAN5230 Transport and the Environment (15 credits)

Other approved modules may be added to the list of optional modules from time to time.

Candidates will be permitted to transfer to full PhD status provided they satisfy the transfer panel and they also achieve an average of 50% over all 180 credits of which 150 credits must be passed at 50% or more in each and every module undertaken and of these 135 credits must be at M Level.

¹ See also the general Programme of Study for the Integrated degree of PhD and Master (MA, LLM or MSc, page 23).

Years Three and Four

- The candidate will continue research under the direction of their supervisor(s)
- Optional and compulsory non-credit bearing training and skills modules selected as appropriate from the wide-range of training courses provided at the University of Leeds (e.g. Writing for Research Students in the Sciences, Thesis Presentation).

Changes may be made from time to time to the title of modular courses and the optional modular courses that are available.

Learning Outcomes / Transferable Key Skills / Learning Context / Assessment – overall programme PhD and MSc (Low Carbon Technologies)

1. Learning Outcomes

On completion of the Integrated PhD with MSc as a whole, students should have shown evidence of being able to:

- discover, interpret and communicate new knowledge through original research in the field of low carbon technologies and produce scholarship of publishable quality which satisfies peer review;
- independently and proactively formulate ideas and hypotheses and to design, develop, implement and execute plans by which to evaluate these;
- demonstrate systematic and extensive knowledge across the four interdisciplinary themes of Transport and Energy, Carbon Storage, Low Carbon Enabling Technologies and Climate Change & Energy Systems Research;
- critically and creatively evaluate current issues, research and advanced scholarship in the above themes;
- exhibit generic and subject specific skills and techniques necessary for effective working in an interdisciplinary research-intensive environment, in liaison with academic and industrial partners, ensuring widening participation through engagement in public events, enterprise and knowledge transfer;
- demonstrate a portfolio of transferable professional skills through the use of Personal Development Plans including, for example, communication and presentation skills, ethics, networking and team development, commercial awareness; to take a proactive and self-reflective role in working and to develop professional relationships with others where appropriate;
- undertake an individual research project in the area of Low Carbon Technologies, incorporating research in a specific area, but also including reference to the wider context of low carbon technologies policy, legislation and environmental impact; to present and defend research outcomes which extend the forefront of the low carbon technologies discipline and professional practice;
- demonstrate the skills necessary for a career as a researcher and/or for employment in a senior and leading capacity in a relevant area of professional practice or industry;
- evaluate their own achievement and that of others;
- exhibit self-direction and effective decision making in complex and unpredictable situations;
- demonstrate independent learning and the ability to work in a way which ensures continuing professional development;

2. Transferable (Key) Skills

Students will have had the opportunity to acquire the following abilities through the research training and research specified for the programme

- the skills necessary for a career as a researcher and/or for employment in a senior and leading capacity in a relevant area of professional practice or industry;
- evaluating their own achievement and that of others;
- self-direction and effective decision making in complex and unpredictable situations;
- independent learning and the ability to work in a way which ensures continuing professional development;

3. Learning Context

The learning context will include the critical analysis of, and decision making in, complex and unpredictable professional and situations. The structure of the programme will provide research and/or professional training, breadth and depth of study and opportunities for drawing upon appropriate resources and techniques. Opportunities will be provided for students to:

- develop to a high level interests and informed opinions
- develop to a high level their design and management of their learning activities
- develop to a high level their communication of their conclusions;
- make an original contribution to the field

Students will be expected to engage in the exercise of autonomous initiative in their study and work in professional environments.

4. Assessment

Achievement will be assessed by the examination of the candidate's thesis and performance under oral examination. Assessment will involve the achievement of the candidate in:

- evidencing an ability to conduct original and independent broad and in-depth enquiry within the discipline or within different aspects of the area of professional practice normally leading to published work;
- drawing on and/or developing a range of research techniques and methodologies appropriate to enquiries into the discipline/area of professional practice;
- demonstrating independent critical ability in the application of breadth and depth of knowledge to complex issues within the discipline or specialist area of professional practice;
- drawing on a range of perspectives on the area of study;
- evaluating and criticising received opinion;
- making reasoned and well-informed judgements on complex issues within the specialism whilst understanding the limitations on judgements made in the absence of complete data
- the written style and overall presentation of the thesis.

Learning Outcomes / Transferable Key Skills / Learning Context / Assessment for MSc (Low Carbon Technologies)

As the degree programme contains a Masters level qualification, candidates are required to achieve the Masters learning outcomes at the appropriate stage within the Integrated PhD and Masters programme.

1. Learning Outcomes

On completion of the MSc programme students should have shown evidence of being able to:

- demonstrate in-depth specialist knowledge and mastery of techniques and information relevant to low carbon technologies in the four interdisciplinary themes of: Transport and Energy, Carbon Storage, Low Carbon Enabling Technologies and Climate Change & Energy Systems Research; demonstrate a sophisticated understanding of concepts, information and techniques at the forefront of these disciplines;
- exhibit a wide breadth of knowledge of generic and specific industry related skills such as the use of modelling software, data collection, aspects of legislation;
- demonstrate a comprehensive understanding of techniques applicable to their own research or advanced scholarship in the fields of low carbon technologies;
- take a proactive and self-reflective role in working and developing professional relationships with others;
- critically and creatively evaluate current issues, research and advanced scholarship in the field of low carbon technologies;
- undertake an individual and team research project and be able to plan, research, execute and analyse the results from an appropriate programme of work.

2. Transferable (key) skills

Masters (Taught) students will have had the opportunity to acquire the following abilities as defined in the modules specified for the programme:

- the skills necessary to undertake a higher research degree and/or for employment in a higher capacity in industry or area of professional practice;
- evaluating their own achievement and that of others;
- self direction and effective decision making in complex and unpredictable situations;
- independent learning and the ability to work in a way which ensures continuing professional development;
- critically to engage in the development of professional/disciplinary boundaries and norms.

3. Learning Context

For Masters (Taught) students the learning context will include the analysis of, and decision making in, complex and unpredictable situations. The structure of the programme will provide breadth and/or depth of study and opportunities for drawing upon appropriate resources and techniques. Opportunities will be provided for students to develop:

- interests and informed opinions
- their involvement in the design and management of their learning activities

- their communication of their conclusions.;

Students will be expected to progress to fully autonomous study and work.

4. Assessment

Achievement for the degree of Master (taught programme) will be assessed by a variety of methods in accordance with the learning outcomes of the modules specified for the year/programme and will involve the achievement of the students in:

- evidencing an ability to conduct independent in-depth enquiry within the discipline;
- demonstrating the ability to apply breadth and/or depth of knowledge to a complex specialist area;
- drawing on a range of perspectives on an area of study;
- evaluating and criticising received opinion;
- make reasoned judgements whilst understanding the limitations on judgements made in the absence of complete data.

Integrated degree of PhD and MSc (Nuclear Fuel Cycle)

Programme of Study for the Integrated degree of PhD and MSc (Nuclear Fuel Cycle)¹

Year One (a total of 120 credits in taught modular courses (including 60 credit MSc Research Project) will be taken as well as commencement of the PhD research project)

- The candidate will commence research under the direction of their supervisor(s) during Year 1.
- Compulsory training and skills module:
PEME5480M Transferable Skills & Professional Development 1 (15 credits).
Candidates also undertake a number of non-credit bearing generic skills courses from a range provided by central training providers (SDDU, ISS, Library etc), the Faculty or outside bodies.
- Compulsory specialised subject modules as follows:
PEME5361M Nuclear Fundamentals (15 credits)
PEME5385M Nuclear Reactor Engineering (30 credits)
PEME5000M Research Project (MSc) (60 credits)

Year Two (a total of 60 credits in taught modular courses will be taken as well as continuation of the PhD research project)

- The candidate will continue research under the direction of their supervisor(s)
- Compulsory training and skills module:
PEME5485M Transferable Skills & Professional Development 2 (15 credits).
- Further non-credit bearing training courses will be taken as appropriate.
- Compulsory specialised subject modules:
PEME5395M Nuclear Futures (15 credits)
PEME5371M Nuclear Operations (15 credits)

Plus 15 credits selected from the following list chosen for relevance to the PhD:

PEME5611M Particle Process Engineering (15 credits)
PEME5310M Multi-Scale Modelling (15 credits)
PEME5315M Batch Process Engineering (15 credits)
PEME5420M Advanced Energy Systems (15 credits)
PEME5350M Computational Transfer Processes (15 credits)
CIVE5025M Advanced Concrete Design (15 credits)
CIVE5026M Deterioration and Maintenance of Concrete Structures (15 credits)
CIVE5977M Advanced Steel & Composite Design (15 credits)
MECH5510M Computational and Experimental Methods (15 credits)
MECH5550M Research Methods (15 credits)
COMP5320M Computational Modelling (15 credits)

Other approved modules may be added to the list of optional modules from time to time.

Candidates will be permitted to proceed to assessment for transfer to full PhD status if they achieve 50% in all assessed credit-bearing modules.

¹ See also the general Programme of Study for the Integrated degrees of PhD and Master (MA, LL.M or MSc, page 23) which specifies the overall arrangements for the University Integrated PhD and Masters programme.

Years Three and Four

- The candidate will continue research under the direction of their supervisor(s)
- Optional and compulsory non-credit bearing training and skills modules selected as appropriate from the wide-range of training courses provided at the University of Leeds.

Changes may be made from time to time to the title of modular courses and the optional modular courses that are available.

Learning Outcomes / Transferable Key Skills / Learning Context / Assessment – overall programme PhD and MSc (Nuclear Fuel Cycle)

1. Learning Outcomes

On completion of the Integrated PhD with MSc as a whole, students should have shown evidence of being able to:

- discover, interpret and communicate new knowledge through original research and/or scholarship of publishable quality which would satisfy peer review;
- present and defend research outcomes which extend the forefront of a discipline or relevant area of professional practice;
- demonstrate systematic and extensive knowledge of the subject area and expertise in generic and subject/professional skills;
- take a proactive and self reflective role in working and to develop professional relationships with others where appropriate;
- independently and proactively formulate ideas and hypotheses and to design, develop, implement and execute plans by which to evaluate these;
- critically and creatively evaluate current issues, research and advanced scholarship in the discipline.
- demonstrate systematic knowledge of and be able to critically assess, analyse and engage with the ethical and legal context of their research and any ethical and legal implications of their research.
- understand the baseline and advanced principles of a particular engineering discipline (e.g. Chemical, Civil, Mechanical) and how these are applied in the nuclear industry;
- perform accurate analyses, within the rigorous standards expected by the nuclear industry;
- define problems and develop and evaluate solutions for both basic and complex engineering issues in the nuclear industry;
- have demonstrated the capability to use techniques to acquire and analyse data and engineering information relevant to the nuclear industry;
- demonstrate the range of professional competencies that are relevant to the nuclear industry and show a clear understanding of the regulatory, safety and professionalism expectations of that industry;

2. Transferable (Key) Skills

Students will have had the opportunity to acquire the following abilities through the research training and research specified for the programme

INTEGRATED DEGREE OF PhD AND MSc (NUCLEAR FUEL CYCLE)

- the skills necessary for a career as a researcher and/or for employment in a senior and leading capacity in a relevant area of professional practice or industry;
- evaluating their own achievement and that of others;
- self-direction and effective decision making in complex and unpredictable situations;
- independent learning and the ability to work in a way which ensures continuing professional development;

3. Learning Context

The learning context will include the critical analysis of, and decision making in, complex and unpredictable professional and situations. The structure of the programme will provide research and/or professional training, breadth and depth of study and opportunities for drawing upon appropriate resources and techniques. Opportunities will be provided for students to:

- develop to a high level interests and informed opinions
- develop to a high level their design and management of their learning activities
- develop to a high level their communication of their conclusions;
- make an original contribution to the field

Students will be expected to engage in the exercise of autonomous initiative in their study and work in professional environments.

4. Assessment

Achievement will be assessed by the examination of the candidate's thesis and performance under oral examination. Assessment will involve the achievement of the candidate in:

- evidencing an ability to conduct original and independent broad and in-depth enquiry within the discipline or within different aspects of the area of professional practice normally leading to published work;
- drawing on and/or developing a range of research techniques and methodologies appropriate to enquiries into the discipline/area of professional practice;
- demonstrating independent critical ability in the application of breadth and depth of knowledge to complex issues within the discipline or specialist area of professional practice;
- drawing on a range of perspectives on the area of study;
- evaluating and criticising received opinion;
- making reasoned and well-informed judgements on complex issues within the specialism whilst understanding the limitations on judgements made in the absence of complete data
- the written style and overall presentation of the thesis.

Learning Outcomes / Transferable Key Skills / Learning Context / Assessment for MSc (Nuclear Fuel Cycle) Outcomes

As the degree programme contains a Masters level qualification, candidates are required to achieve the Masters learning outcomes at the appropriate stage within the Integrated PhD and Masters programme.

1. Learning Outcomes

On completion of the MSc programme students should have shown evidence of being able to:

- demonstrate in-depth, specialist knowledge and mastery of techniques relevant to the discipline and/or to demonstrate a sophisticated understanding of concepts, information and techniques at the forefront of the discipline;
- exhibit mastery in the exercise of generic and subject-specific intellectual abilities;
- demonstrate a comprehensive understanding of techniques applicable to their own research or advanced scholarship;
- take a proactive and self-reflective role in working and to develop professional relationships with others;
- formulate ideas and hypotheses proactively and to develop, implement and execute plans by which to evaluate these;
- evaluate critically and creatively current issues, research and advanced scholarship in the discipline.

2. Transferable (key) skills

Masters (Taught) students will have had the opportunity to acquire the following abilities as defined in the modules specified for the programme:

- the skills necessary to undertake a higher research degree and/or for employment in a higher capacity in industry or area of professional practice;
- evaluating their own achievement and that of others;
- self direction and effective decision making in complex and unpredictable situations;
- independent learning and the ability to work in a way which ensures continuing professional development;
- critically to engage in the development of professional/disciplinary boundaries and norms.

3. Learning Context

For Masters (Taught) students the learning context will include the analysis of, and decision making in, complex and unpredictable situations. The structure of the programme will provide breadth and/or depth of study and opportunities for drawing upon appropriate resources and techniques. Opportunities will be provided for students to develop:

- interests and informed opinions
- their involvement in the design and management of their learning activities
- their communication of their conclusions.

Students will be expected to progress to fully autonomous study and work

4. Assessment

Achievement for the degree of Master (taught programme) will be assessed by a variety of methods in accordance with the learning outcomes of the modules specified for the year/programme and will involve the achievement of the students in:

- evidencing an ability to conduct independent in-depth enquiry within the discipline;

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- demonstrating the ability to apply breadth and/or depth of knowledge to a complex specialist area;
- drawing on a range of perspectives on an area of study;
- evaluating and criticising received opinion;
- make reasoned judgements whilst understanding the limitations on judgements made in the absence of complete data.

Integrated degree of PhD and MSc (Chemical Process Research and Design)

Programme of study for the Integrated degree of PhD and MSc (Chemical Process Research and Design)¹

Year One (a total of 120 credits in taught modular courses will be taken as well as the research project)

- The candidate will commence research under the direction of their supervisor(s) (including literature review and PhD proposal).
- Compulsory training and skills module: CHEM5476M Laboratory Rotation Projects (60 credits). Candidates undertake a number of non-credit bearing generic skills courses from a range provided by central training providers (SDDU, ISS, Library), Faculty or outside bodies, in accordance with current guidelines for the School of Chemistry.
- Compulsory² specialised subject modules as follows:
All
PEME5300M Process Chemistry and Chemical Technology (15 credits)
CHEM5226M Case studies in Fine Chemical and Pharmaceutical Synthesis (15 credits)
Chemists
CHEM5116M Advanced Organic Synthesis for Pharmaceutical and Fine Chemical Synthesis (15 credits)
PEME5315M Batch Process Engineering (15 credits)
Engineers
CHEM5126M Organic Synthesis for Pharmaceutical and Fine Chemical Synthesis (15 credits)
PEME5370M Pharmaceutical Analytical Techniques (15 credits)

In the unlikely event that a student does not have the appropriate background in chemistry or engineering to take these modules, then alternatives at a comparable level must be taken and agreed in advance with the CDT management group.

Year Two (a total of 60 credits in taught modular courses will be taken as well as the research project)

- The candidate will continue research under the direction of their supervisor(s)
- Further non-credit bearing training courses will be taken as appropriate.
- Compulsory specialised subject modules, 60 credits selected from the following list chosen for their relevance to the PhD:
PEME5360M Pharmaceutical Product Formulation (15 credits)
CHEM5145M Chemical Biology Tools and Concepts (10 credits)
PEME5340M Advances in Chemical Engineering (15 credits)
PEME5310M Multi-Scale Modelling (15 credits)
PEME5311M Reaction Engineering (15 credits)

¹ See also the general Programme of Study for the Integrated degrees of PhD and Master (MA, LL.M or MSc, page 23) which specifies the overall arrangements for the University Integrated PhD and Masters programme.

² If already taken as part of first degree, an alternative module at comparable level (agreed in advance with the CDT management group) must be studied.

CHEM5510M Advanced programmed learning in organic chemistry (10 credits)

PEME5315M Batch Process Engineering (15 credits)

PEME5370M Pharmaceutical Analytical Techniques (15 credits)

CHEM5216M Physical Organic Process Chemistry (15 credits)

CHEM5205M Stereoselective and Asymmetric Synthesis (10 credits)

Years Three and Four

- The candidate will continue research under the direction of their supervisor(s)
- Optional and compulsory non-credit bearing training and skills modules selected as appropriate from the wide-range of training courses provided at the University of Leeds.

Changes may be made from time to time to the title of modular courses and the optional modular courses that are available.

Learning Outcomes / Transferable Key Skills / Learning Context / Assessment – overall programme PhD and MSc (Chemical Process Research and Design)

1. Learning Outcomes

On completion of the Integrated PhD with MSc as a whole, students should have shown evidence of being able:

- to discover, interpret and communicate new knowledge through original research in the field of Chemical Process Research and Development and produce scholarship of publishable quality which satisfies peer review;
- to present and defend research outcomes which extend the forefront of Chemical Process Research and Development and professional practice;
- to demonstrate systematic and extensive knowledge across the interdisciplinary themes of Chemistry and Chemical Engineering
- to take a proactive and self-reflective role in working and to develop professional relationships with others where appropriate;
- to independently and proactively formulate ideas and hypotheses and to design, develop,
- implement and execute plans by which to evaluate these;
- to critically and creatively evaluate current issues, research and advanced scholarship in the above themes;
- to exhibit generic and subject specific skills and techniques necessary for effective working in an interdisciplinary research-intensive environment, in liaison with academic and industrial partners, ensuring widening participation through engagement in public events, enterprise and knowledge transfer;
- to demonstrate a portfolio of transferable professional skills through the use of Personal Development Plans including, for example, communication and presentation skills, ethics, networking and team development, commercial awareness;
- to undertake an individual research project in the area of Chemical Process Research and Development, incorporating research in a specific area, but also including reference to the wider context of Chemical Process Research and Development policy, legislation and environmental impact;

- to demonstrate the skills necessary for a career as a researcher and/or for employment in a senior and leading capacity in a relevant area of professional practice or industry;
- to evaluate their own achievement and that of others;
- to exhibit self-direction and effective decision making in complex and unpredictable situations;
- to demonstrate independent learning and the ability to work in a way which ensures continuing professional development;
- to demonstrate systematic knowledge of and be able to critically assess, analyse and engage with the ethical and legal context of their research and any ethical and legal implications of their research.

2. Transferable (Key) Skills

Students will have had the opportunity to acquire the following abilities through the research training and research specified for the programme

- the skills necessary for a career as a researcher and/or for employment in a senior and leading capacity in a relevant area of professional practice or industry;
- evaluating their own achievement and that of others;
- self-direction and effective decision making in complex and unpredictable situations;
- independent learning and the ability to work in a way which ensures continuing professional development;

3. Learning Context

The learning context will include the critical analysis of, and decision making in, complex and unpredictable professional situations. The structure of the programme will provide research and/or professional training, breadth and depth of study and opportunities for drawing upon appropriate resources and techniques. Opportunities will be provided for students to:

- develop to a high level interests and informed opinions
- develop to a high level their design and management of their learning activities
- develop to a high level their communication of their conclusions;
- make an original contribution to the field

Students will be expected to engage in the exercise of autonomous initiative in their study and work in professional environments.

4. Assessment

Achievement will be assessed by the examination of the candidate's thesis and performance under oral examination. Assessment will involve the achievement of the candidate in:

- evidencing an ability to conduct original and independent broad and in-depth enquiry within the discipline or within different aspects of the area of professional practice normally leading to published work;
- drawing on and/or developing a range of research techniques and methodologies appropriate to enquiries into the discipline/area of professional practice;
- demonstrating independent critical ability in the application of breadth and depth of knowledge to complex issues within the discipline or specialist area of professional practice;

- drawing on a range of perspectives on the area of study;
- evaluating and criticising received opinion;
- making reasoned and well-informed judgements on complex issues within the specialism whilst understanding the limitations on judgements made in the absence of complete data
- the written style and overall presentation of the thesis.

Learning Outcomes / Transferable Key Skills / Learning Context / Assessment for MSc (Chemical Process Research and Design)

As the degree programme contains a Masters level qualification, candidates are required to achieve the Masters learning outcomes at the appropriate stage within the Integrated PhD and Masters programme.

1. Learning Outcomes

On completion of the MSc programme students should have shown evidence of being able:

- to demonstrate in-depth, specialist knowledge and mastery of techniques relevant to Chemical Process Research and Development and to demonstrate a sophisticated understanding of concepts, information and techniques at the forefront of the discipline;
- to exhibit mastery in the solution of research problems in Chemical Process Research and Development, and deductive problems in associated chemistry and chemical engineering;
- to demonstrate a comprehensive understanding of techniques applicable to their own research in Chemical Process Research and Development;
- to take a proactive and self-reflective role in working and to develop professional relationships with others;
- proactively to formulate scientific hypotheses and to design and execute experiments which test them;
- critically and creatively to evaluate current issues and research topics in process chemistry;
- to disseminate research results orally, and in writing.

2. Transferable (key) skills

Masters (Taught) students will have had the opportunity to acquire the following abilities as defined in the modules specified for the programme:

- the skills necessary to undertake a higher research degree in process chemistry and/or for employment in the fine chemical and pharmaceutical industries;
- evaluating their own achievement and that of others;
- self direction and effective decision making in the solution of deductive problems and in a research environment;
- ability to conduct research in process chemistry within an interdisciplinary team, and to keep abreast of recent and topical developments in the field;
- independent learning and the ability to work in a way which ensures continuing professional development;
- critically to engage in the development of professional/disciplinary boundaries and norms

3. Learning Context

For Masters (Taught) students the learning context will include the analysis of, and decision making in, complex and unpredictable situations. The structure of the programme will provide breadth and/or depth of study and opportunities for drawing upon appropriate resources and techniques.

Opportunities will be provided for students to develop:

- interests and informed opinions
- their involvement in the design and management of their learning activities
- their communication of their conclusions.

Students will be expected to progress to fully autonomous study and work.

4. Assessment

Achievement for the degree of Master (taught programme) will be assessed by a variety of methods in accordance with the learning outcomes of the modules specified for the year/programme and will involve the achievement of the students in:

- evidencing an ability to conduct an independent in-depth enquiry within process chemistry;
- demonstrating the ability to apply breadth and depth of knowledge to problems in process chemistry;
- drawing on a range of perspectives on process chemistry;
- evaluating and criticising received opinion;
- make reasoned judgements whilst understanding the limitations on judgements made in the absence of complete data.

Integrated degree of PhD and MSc (Medical and Biological Engineering)

Programme of study for the Integrated degree of PhD and MSc (Medical and Biological Engineering)¹

Year One (a total of 120 credits in taught modular courses will be taken as well as the research project)

- The candidate will commence research under the direction of their supervisor(s) either from term 1 or term 2.
- Compulsory training and skills modules:
MECH5005M Training and Professional Development Activities 1 (15 credits)
MECH5550M Research Methods (15 credits)
MECH5007M Systematic Review (15 credits)
- Candidates undertake a number of non-credit bearing generic skills courses from a range provided by for example central training providers (SDDU, ISS, Library), the Faculty or outside bodies.
- Compulsory (75 credits) specialised subject modules as follows:
MECH5002M Cross-Disciplinary Laboratory Placements (15 credits)
- Specialised subject modules (60 credits²) will be chosen from an approved list of optional modules which are listed in the Student Course Handbook.

Year Two (a total of 60 credits in taught modular courses will be taken as well as the research project)

- The candidate will continue research under the direction of their supervisor(s).
- Compulsory training and skills module:
MECH5006M Training and Professional Development Activities 2 (15 credits)
- Further non-credit bearing training courses to be taken as appropriate.
- Compulsory (45 credits) specialised subject modules as follows:
MECH5003M Industrial Research Project (15 credits)
- Specialised subject modules (30 credits²) will be chosen from an approved list of optional modules which are listed in the Student Course Handbook.

Candidates will be permitted to proceed to assessment for transfer to full PhD status if they achieve an average of 50% over all 180 credits of which 150 credits must be passed at 50% or more in each and every module undertaken, and of these 135 credits must be at M Level.

Years Three and Four

- The candidate will continue research under the direction of their supervisor(s).

¹ See also the general Programme of Study for the Integrated degrees of PhD and Master (MA, LL.M or MSc, page 23) which specifies the overall arrangements for the University Integrated PhD and Masters programme.

² Other approved modules may be added to the list of optional modules from time to time.

- Optional and compulsory non-credit bearing training and skills modules selected as appropriate from the wide-range of training courses provided at the University of Leeds (e.g. Writing for Research Students in the Sciences, Thesis Presentation).

Changes may be made from time to time to the titles of modular courses and the optional modular courses that are available

Learning Outcomes / Transferable Key Skills / Learning Context / Assessment – overall programme PhD and MSc (Medical and Biological Engineering)

1. Learning Outcomes

On completion of the Integrated PhD with MSc as a whole, students should have shown evidence of being able to:

- discover, interpret and communicate new knowledge through original research in the field of medical and biological engineering and produce scholarship of publishable quality which satisfies peer review;
- independently and proactively formulate ideas and hypotheses and to design, develop, implement and execute plans by which to evaluate these;
- demonstrate systematic and extensive knowledge across the three broad interdisciplinary themes of Joint replacements and cartilage substitution; Spinal biomechanics and interventions; and Tissue engineering;
- critically and creatively evaluate current issues, research and advanced scholarship in the above themes;
- demonstrate systematic knowledge of and be able to critically assess, analyse and engage with the ethical and legal context of their research and any ethical and legal implications of their research.
- exhibit generic and subject specific skills and techniques necessary for effective working in an interdisciplinary research-intensive environment, in liaison with academic and industrial partners, ensuring widening participation through engagement in public events, enterprise and knowledge transfer;
- demonstrate a portfolio of transferable professional skills through the use of Personal Development Plans including, for example, communication and presentation skills, ethics, networking and team development, commercial awareness; to take a proactive and self-reflective role in working and to develop professional relationships with others where appropriate;
- undertake an individual research project in the area of Medical and Biological Engineering, incorporating research in a specific area, but also including reference to the wider context of industrial and clinical development; to present and defend research outcomes which extend the forefront of the Medical and Biological Engineering discipline;
- demonstrate the skills necessary for a career as a researcher and/or for employment in a senior and leading capacity in a relevant area of professional practice or industry;
- evaluate their own achievement and that of others;
- exhibit self-direction and effective decision making in complex and unpredictable situations;
- demonstrate independent learning and the ability to work in a way which ensures continuing professional development;

2. Transferable (Key) Skills

Students will have had the opportunity to acquire the following abilities through the research training and research specified for the programme

- the skills necessary for a career as a researcher and/or for employment in a senior and leading capacity in a relevant area of professional/clinical practice or industry;
- evaluating their own achievement and that of others;
- self-direction and effective decision making in complex and unpredictable situations;
- independent learning and the ability to work in a way which ensures continuing professional development;

3. Learning Context

The learning context will include the critical analysis of, and decision making in, complex and unpredictable professional and/or clinical situations. The structure of the programme will provide research and/or professional training, breadth and depth of study and opportunities for drawing upon appropriate resources and techniques. Opportunities will be provided for students to:

- develop to a high level interests and informed opinions
- develop to a high level their design and management of their learning activities
- develop to a high level their communication of their conclusions;
- make an original contribution to the field

Students will be expected to engage in the exercise of autonomous initiative in their study and work in professional environments.

4. Assessment

Achievement will be assessed by the examination of the candidate's thesis and performance under oral examination. Assessment will involve the achievement of the candidate in:

- evidencing an ability to conduct original and independent broad and in-depth enquiry within the discipline or within different aspects of the area of professional/clinical practice normally leading to published work;
- drawing on and/or developing a range of research techniques and methodologies appropriate to enquiries into the discipline/area of professional practice;
- demonstrating independent critical ability in the application of breadth and depth of knowledge to complex issues within the discipline or specialist area of professional/clinical practice;
- drawing on a range of perspectives on the area of study;
- evaluating and criticising received opinion;
- making reasoned and well-informed judgements on complex issues within the specialism whilst understanding the limitations on judgements made in the absence of complete data
- the written style and overall presentation of the thesis.

Learning Outcomes / Transferable Key Skills / Learning Context / Assessment for MSc (Medical and Biological Engineering)

As the degree programme contains a Masters level qualification, candidates are required to achieve the Masters learning outcomes at the appropriate stage within the Integrated PhD and Masters programme.

1. Learning Outcomes

On completion of the MSc (Medical and Biological Engineering) students should have shown evidence of being able to:

- demonstrate in-depth, extended or specialist knowledge of techniques relevant to the discipline of medical and biological engineering or to demonstrate an advanced understanding of concepts, information and techniques informed by knowledge at the forefront of the discipline and/or the applications to medical and biological problems;
- exhibit competence in the exercise of advanced generic and subject-specific intellectual abilities such as experimental biology, experimental laboratory, computational modelling etc;
- demonstrate an advanced understanding of techniques applicable to their own research or advanced scholarship in the area of medical and biological engineering;
- take a proactive and self-reflective role in working and to develop professional relationships with others in the field of medical and biological engineering;
- proactively formulate ideas and hypotheses and to evaluate these;
- evaluate critically current issues and research in the discipline.

2. Transferable (key) skills

Masters (Taught) will have had the opportunity to acquire the following abilities as defined in the modules specified for the programme:

- the skills necessary to undertake a higher research degree and/or for employment in a higher capacity in industry or area of professional practice;
- evaluating their own achievement and that of others;
- self direction and effective decision making in complex and unpredictable situations;
- independent learning and the ability to work in a way which ensures continuing professional development;
- critically to engage in the development of professional/disciplinary boundaries and norms.

3. Learning Context

For Masters (Taught) students the learning context will include the analysis of, and decision making in, complex and unpredictable situations. The structure of the programme will provide breadth and/or depth of study and opportunities for drawing upon appropriate resources and techniques.

Opportunities will be provided for students to develop:

- interests and informed opinions
- their involvement in the design and management of their learning activities

- their communication of their conclusions.

Students will be expected to progress to fully autonomous study and work.

4. Assessment

Achievement for the degree of Master (taught programme) will be assessed by a variety of methods in accordance with the learning outcomes of the modules specified for the year/programme and will involve the achievement of the students in:

- evidencing an ability to conduct independent in-depth enquiry within the discipline;
- demonstrating the ability to apply breadth and/or depth of knowledge to a complex specialist area;
- drawing on a range of perspectives on an area of study;
- evaluating and criticising received opinion;
- make reasoned judgements whilst understanding the limitations on judgements made in the absence of complete data

Integrated degree of PhD and MSc (Molecular-scale Engineering)

Programme of study for the Integrated degree of PhD and MSc (Molecular-scale Engineering)¹

Year One (a total of 150 credits in taught modular courses will be taken as well as the research project)

- The candidate will commence research under the direction of their supervisor(s) from term 3.
- Compulsory training and skills module:
ELEC5290M Cross-disciplinary research placement (30 credits).
Candidates also undertake a number of non-credit bearing generic skills courses from a range provided by central training providers (SDDU, ISS, Library), the Faculty or outside bodies.
- Compulsory specialised subject modules as follows:
ELEC5225M Molecular-Scale Engineering (15 credits)
ELEC5255M Nanofabrication and Characterisation (15 credits)
CMNS5100M Generic Methodologies for Nanotechnology (15 credits)
JUSH6730 Bionanomaterials (15 credits)
JUSH6001 Translational Molecular Biology (15 credits)
JUSH6100 Preliminary PhD Project (45 credits)

Year Two (a total of 30 credits in taught modular courses will be taken as well as the research project)

- The candidate will continue research under the direction of their supervisor(s)
- Further non-credit bearing training courses will be taken as appropriate from a range provided by central training providers (SDDU, ISS, Library), the Faculty or outside bodies.
- Compulsory specialised subject modules:
30 credits selected from the following list chosen for relevance to PhD:
ELEC5500M Micro- and Nano-Electromechanical Systems (15 credits)
ELEC5650M Medical Electronics and E-health (15 credits)
JUSH6750 Biophotonics and Bioimaging (15 credits)
JUSH6108 Biopolymers and Biomaterials (15 credits)

Candidates will be permitted to proceed to assessment for transfer to full PhD status if they achieve an average of 50% over all 180 credits of which 150 credits must be passed at 50% or more in each and every module undertaken, and of these 135 credits must be at M Level.

Years Three and Four

- The candidate will continue research under the direction of their supervisor(s)
- Optional and compulsory non-credit bearing training and skills modules selected as appropriate from the wide-range of training courses provided at the University of Leeds (e.g. Writing for Research Students in the Sciences, Thesis Presentation).

¹ See also the general Programme of Study for the Integrated degrees of PhD and Master (MA, LLM or MSc, page 23) which specifies the overall arrangements for the University Integrated PhD and Masters programme.

Changes may be made from time to time to the titles of modular courses and the optional modular courses that are available.

Learning Outcomes / Transferable Key Skills / Learning Context / Assessment – overall programme PhD and MSc (Molecular-scale Engineering)

1. Learning Outcomes

On completion of the Integrated PhD and MSc (Molecular-Scale Engineering) as a whole, students should have shown evidence of being able:

- discover, interpret and communicate new knowledge through original research in the field of molecular-scale engineering and produce work of publishable quality which satisfies peer review;
- to present and defend research outcomes which extend the forefront of molecular-scale engineering discipline and professional practice;
- to independently and proactively formulate ideas and hypotheses and to design, develop,
- implement and execute plans by which to evaluate these;
- demonstrate systematic and extensive knowledge of a range of topics in the area of molecular-scale engineering;
- to take a proactive and self-reflective role in working and to develop professional relationships with others where appropriate;
- to evaluate critically and creatively published research in a range of learned society journals and other literature;
- to exhibit generic and subject specific skills and techniques necessary for effective working in an interdisciplinary research-intensive environment, in liaison with academic and industrial partners, ensuring widening participation through engagement in public events, enterprise and knowledge transfer;
- to demonstrate a portfolio of transferable professional skills through the use of Personal Development Plans including, for example, communication and presentation skills, ethics, networking and team development, commercial awareness;
- to take a proactive and self-reflective role in working and to develop professional relationships with others where appropriate;
- to undertake an individual research project in the area of molecular-scale engineering;
- to demonstrate the skills necessary for a career as a researcher and/or for employment in a senior and leading capacity in a relevant area of industry;
- evaluate their own achievement and that of others;
- exhibit self-direction and effective decision making in complex and unpredictable situations;
- demonstrate independent learning and the ability to work in a way which ensures continuing professional development.
- to demonstrate systematic knowledge of and be able to critically assess, analyse and engage with the ethical and legal context of their research and any ethical and legal implications of their research.

2. Transferable (Key) Skills

Students will have had the opportunity to acquire the following abilities through the research training and research specified for the programme

- the skills necessary for a career as a researcher and/or for employment in a senior and leading capacity in a relevant area of professional practice or industry;
- evaluating their own achievement and that of others;
- self-direction and effective decision making in complex and unpredictable situations;
- independent learning and the ability to work in a way which ensures continuing professional development;

3. Learning Context

The learning context will include the critical analysis of, and decision making in, complex and unpredictable professional situations. The structure of the programme will provide research and/or professional training, breadth and depth of study and opportunities for drawing upon appropriate resources and techniques. Opportunities will be provided for students to:

- develop to a high level interests and informed opinions
- develop to a high level their design and management of their learning activities
- develop to a high level their communication of their conclusions;
- make an original contribution to the field

Students will be expected to engage in the exercise of autonomous initiative in their study and work in professional environments.

4. Assessment

Achievement will be assessed by the examination of the candidate's thesis and performance under oral examination. Assessment will involve the achievement of the candidate in:

- evidencing an ability to conduct original and independent broad and in-depth enquiry within the discipline or within different aspects of the area of professional practice normally leading to published work;
- drawing on and/or developing a range of research techniques and methodologies appropriate to enquiries into the discipline/area of professional practice;
- demonstrating independent critical ability in the application of breadth and depth of knowledge to complex issues within the discipline or specialist area of professional practice;
- drawing on a range of perspectives on the area of study;
- evaluating and criticising received opinion;
- making reasoned and well-informed judgements on complex issues within the specialism whilst understanding the limitations on judgements made in the absence of complete data
- the written style and overall presentation of the thesis.

Learning Outcomes / Transferable Key Skills / Learning Context / Assessment for MSc (Molecular-scale Engineering)

As the degree programme contains a Masters level qualification, candidates are required to achieve the Masters learning outcomes at the appropriate stage within the Integrated PhD and Masters programme.

1. Learning Outcomes

On completion of the MSc programme students should have shown evidence of being able:

- demonstrate in-depth specialist knowledge and understanding of techniques relevant to molecular-scale engineering, informed by knowledge at the forefront of the discipline;
- demonstrate and use a high level of analytical problem solving skills and competencies;
- use their knowledge and understanding of the underpinning engineering and scientific principles within the context of molecular-scale technology;
- use their analytical skills to solve non-routine molecular-scale engineering problems;
- demonstrate an appreciation of the context in which molecular-scale engineering is practised and managed, particularly an awareness of the management of quality and health & safety systems and environmental and sustainability issues;
- apply their skills in molecular-scale engineering to real world science and engineering problems;
- undertake project work independently and be able to plan, research, execute and analyse the results from an appropriate programme of work.

2. Transferable (key) skills

Masters (Taught) students will have had the opportunity to acquire the following abilities as defined in the modules specified for the programme:

- the skills necessary to undertake a higher research degree and/or for employment in a higher capacity in industry or area of professional practice;
- evaluating their own achievement and that of others;
- self-direction and effective decision making in complex and unpredictable situations;
- independent learning and the ability to work in a way which ensures continuing professional development;
- critically to engage in the development of professional/disciplinary boundaries and norms.

3. Learning Context

For Masters (Taught) students the learning context will include the analysis of, and decision making in, complex and unpredictable situations. The structure of the programme will provide breadth and/or depth of study and opportunities for drawing upon appropriate resources and techniques. Opportunities will be provided for students to develop:

- interests and informed opinions;
- their involvement in the design and management of their learning activities;
- their communication of their conclusions.

Students will be expected to progress to fully autonomous study and work.

4. Assessment

Masters (Taught)

- evidencing an ability to conduct independent in-depth enquiry within the discipline;
- demonstrating the ability to apply breadth and/or depth of knowledge to a complex specialist area;
- drawing on a range of perspectives on an area of study;
- evaluating and criticising received opinion;
- make reasoned judgements whilst understanding the limitations on judgements made in the absence of complete data.

Doctor of Medicine

Programme of study for the degree of Doctor of Medicine

1. Subject to the requirements of Regulation 1 and the approval of the admission panel for the degree of Doctor of Medicine, the following may be accepted as candidates for the degree of Doctor of Medicine within one of the Medical Institutes in the Faculty of Medicine and Health.
 - (a) Bachelors of Medicine and Surgery of the University of not less than two years standing prior to acceptance as candidates for the degree;
 - (b) Graduates of other UK or EU universities holding an appointment or an honorary appointment within a medical or dental institute of the University, or a National Health Service clinical appointment at the level of Registrar or above, who have held a qualification registrable with the UK General Medical Council for at least two years prior to acceptance as candidates for the degree;
 - (c) Overseas applicants, who have had not less than a two year period of clinical training subsequent to the award of a medical degree, and qualifications that confer eligibility for full or provisional registration with the UK General Medical Council, may be considered for admission as candidates for the degree of Doctor of Medicine.
2. Candidates for the degree of MD should normally undertake their postgraduate study in a Medical Institute of the University of Leeds or its associated hospitals, whilst holding a full-time, part-time or honorary University appointment. Obtaining any full or provisional registration with the General Medical Council required for the work will be the responsibility of the candidate, who may be offered a place on the degree programme subject to the submission of the standard University application form for postgraduate study, together with the following supporting documentation:
 - (a) The title of the proposed thesis;
 - (b) A short outline description (maximum 2 pages of A4) of the research project to be undertaken, indicating the research question or hypothesis to be addressed, the scope of the work and the methods to be used, and agreed with a qualifying supervisor with a University or honorary University contract;
 - (c) Details of where the research will be undertaken and how it will be funded;
 - (d) How the research time required for the proposed work will be compatible with clinical work commitments (if applicable);
 - (e) A full and up-to-date curriculum vitae;
 - (f) Evidence of proficiency in English Language to the required level specified for this degree programme.
3. Candidates eligible for acceptance under 1 (a) to (c) above may also be eligible for acceptance if they have completed satisfactorily a period of at least one year of approved research as a research student of the University. Such applications will be given individual consideration.

Progress and Monitoring

4. Candidates will be accepted initially as provisional MD candidates. By the end of the first year of study, full-time candidates are required to prepare a report and undergo a transfer viva to assess their progress before proceeding to Year 2 and transfer to the specific degree category of MD. In the case of part-time candidates the transfer assessment process will normally take place within the first eighteen months of study. The Assessment Panel will include at least one independent individual who has not been involved in the supervisory support of the candidate.
5. The following options are open to the Assessment Panel:
 - (i) to recommend transfer to MD registration;
 - (ii) to require that the report is revised for reassessment within a period of time of between 3 and 6 months;
 - (iii) to require that the candidature is terminated.
6. In exceptional circumstances, candidates for the degree of MD may be considered for transfer to candidature for the degree of PhD, subject to approval by the relevant committee.

Supervision

7. At least two supervisors will be appointed for each student at the commencement of the candidature.
8. The arrangements for formal reports on progress by the supervisors are described in the University Code of Practice for Research Degree Candidatures which is published in the Research Student Handbook.

Examinations and Assessment

9. Candidates are required to submit at least two copies of a thesis (80,000 words maximum), which shall be specially written for the purpose, must be written in English and must contain a critical account of original studies carried out personally by the candidate, and satisfy the Examiners as set out in Ordinance X and its associated Regulations.
10. Except with the special permission of the relevant committee, every candidate is required to submit his/her thesis for examination for the degree of Doctor of Medicine by no later than:
 - (i) the end of the fifth year after his/her entry upon the approved course of part-time study and research; or
 - (ii) (the end of the third year after his/her entry upon the approved course of full-time study and research.
11. Where the progress and quality of the candidate's research justify it, the relevant committee is empowered to reduce the normal minimum period of study, as specified in Article 5 of Ordinance X, provided that no candidate shall submit for examination before the completion of:
 - (i) a total of one calendar year of full-time study;

- (ii) a total of two calendar years of part-time study.
12. Following examination, the examiners will be asked to make one of the following recommendations:
- (a) Pass
 - (b) Pass (subject to the correction of 'minor editorial corrections' or 'stated minor deficiencies'): these corrections must be made within four or twelve weeks respectively from the date of the oral examination. The internal examiner is responsible for ensuring that minor errors or minor deficiencies are corrected by the candidate. The degree will not be awarded until confirmation that the corrections have been completed is received.
 - (c) Referral (see 13 below)
 - (d) Fail: The candidate has no further opportunity for submission.
13. If the thesis is not considered to be of sufficiently high standard to recommend that the degree be awarded but there is evidence of the potential of a successful MD submission, then on the recommendation of the examiners the candidate will be granted permission to re-submit the work in a revised form within a period of eighteen months on one occasion only and on the payment of an additional fee.
14. The recommendation of the examiners is subject to confirmation by the Graduate Board's Examinations Group which will consider the examiners' report.

Learning Outcomes / Transferable Key Skills / Learning Context / Assessment for the degree of MD

1. Learning Outcomes

On completion of the research programme students should have shown evidence of being able:

- to demonstrate extensive knowledge of the subject area and expertise in generic, subject specific and professional skills;
- to evaluate critically current issues in research and advanced scholarship in the discipline of medicine;
- to formulate ideas and hypotheses independently, and to design, develop, implement and execute plans by which to evaluate these;
- to take a proactive and self-reflective role in working and to develop professional relationships with others where appropriate;
- to demonstrate diligence in professional working practice through a thorough understanding of the ethical, legal, health and safety issues pertaining to the research, including adherence to data protection.
- to discover, interpret and communicate new knowledge through original research and/or scholarship of publishable or potentially publishable quality, which satisfies peer review;
- to present and defend research outcomes that extend the forefront of a discipline of medicine by oral and written methods;
- to evaluate critically the implications of their research outcomes in the relevant area of professional/clinical practice;

2. Transferable (Key) Skills

Students will have had the opportunity to acquire the following abilities through the research training and research specified for the programme

- the skills necessary for a career as a researcher and/or for employment in a senior and leading capacity in a relevant area of professional/clinical practice;
- evaluating their own achievement and that of others;
- self-direction and effective decision making in complex and unpredictable situations;
- independent learning and the ability to work in a way which ensures continuing professional development;

3. Learning Context

The learning context will include the critical analysis of, and decision making in, complex and unpredictable professional and/or clinical situations. The structure of the programme will provide research and/or professional training, breadth and depth of study and opportunities for drawing upon appropriate resources and techniques. Opportunities will be provided for students to:

- develop to a high level interests and informed opinions
- develop to a high level their design and management of their learning activities
- develop to a high level their communication of their conclusions;
- make an original contribution to the field

Students will be expected to engage in the exercise of autonomous initiative in their study and work in professional environments.

4. Assessment

Achievement will be assessed by the examination of the candidate's thesis and performance under oral examination. Assessment will involve the achievement of the candidate in:

- evidencing an ability to conduct original and independent broad and in-depth enquiry within the discipline or within different aspects of the area of professional/clinical practice normally leading to published work;
- drawing on and/or developing a range of research techniques and methodologies appropriate to enquiries into the discipline/area of professional practice;
- demonstrating independent critical ability in the application of breadth and depth of knowledge to complex issues within the discipline or specialist area of professional/clinical practice;
- drawing on a range of perspectives on the area of study;
- evaluating and criticising received opinion;
- making reasoned and well-informed judgements on complex issues within the specialism whilst understanding the limitations on judgements made in the absence of complete data
- the written style and overall presentation of the thesis.

Doctor of Business and Management

Programme of study for the degree of Doctor of Business and Management¹

The Doctor of Business and Management (DBM) is offered on a part-time basis over a minimum of five years with a maximum period for submission of the thesis of seven years. The programme will normally commence in October.

1. The following may be accepted as candidates for the Professional Doctorate in Business and Management:
 - (i) graduates of an approved university or equivalent institution who have been awarded at an appropriate standard, a masters degree in a subject area relevant to the proposed area of research;
 - or
 - (ii) persons holding such other qualifications as may be deemed by the relevant committee, to be acceptable as equivalent to or in lieu of a degree.

Applicants should also have a minimum of four years professional experience.

2. Candidates should submit an acceptable research proposal as part of the admissions process. This proposal will be used to appoint a suitable supervisory team, usually in advance of registration but by no later than three months after registration. The supervisory team will play a key role throughout the candidature by monitoring progress and providing advice to the candidate on both research aspects and professional development.
3. In addition, supervisory teams will look to co-opt a Professional Adviser, typically drawn from the candidate's sponsoring organisation, on to the team to provide advice such as feedback on the professional development of the candidate.

Content of the Programme

4. Candidates will in the first instance be accepted as a provisional candidate for the degree of DBM.
5. Candidates accepted will proceed by undertaking a programme of advanced study which will comprise 180 credits (in the absence of Credit Accumulation and Transfer (CATS) or Accredited Prior Learning (APL)). The candidate will normally complete this programme over the first two years of study:

Year One

Candidates will take a total of 90 compulsory credits as well as commencing research under the direction of their supervisor:

Research in Business, Economics and Management (15 credits)
General Training and Skills 1 for part-time students (15 credits)
Qualitative Research Methods (15 credits)

¹ entrance to this programme is suspended with effect from 2011-12

Quantitative Research Methods (15 credits)
Research Project (30 credits)

Year Two

A total of 60 compulsory credits in taught modules will be taken together with a dissertation module (30 credits). Candidates will also continue with their research under the direction of their supervisor:

Knowledge and its Production (15 credits)
International Context (15 credits)
Research Methods for Professionals (15 credits)
General Training and Skills 2 for part-time students (15 credits)
Dissertation (30 credits)

Years Three – Five

The candidate will continue research under the direction of the supervisor.

6. Performance on these 180 credits will be considered by a Faculty Examinations Committee that will approve, or otherwise, the progress of the candidate to the transfer process. In order to progress to the transfer process candidates will normally be expected to achieve an overall average of more than 60% over all 180 credits.
7. The study requirements for these initial 180 credits will normally be completed successfully prior to the transfer process which is expected to be conducted by the end of the second year of study (and in all cases by no later than three years after first registration).
8. A transfer assessment panel will be established in accordance with University and Faculty guidelines to assess each candidate who satisfies 6 above for assessment for transfer to full DBM registration.
9. A candidate will not be permitted to proceed to the final thesis preparation element of the programme without successfully passing the transfer process.
10. The thesis preparation phase will normally take three years but may extend up to five years. The outcome of this phase will be the submission of a doctoral thesis.

Examination and Assessment

11. Candidates must present a thesis, of 60,000 words maximum length, on the subject of his/her research and satisfy the examiners as specified in Ordinance X and its associated Regulations.
12. Except with the special permission of the relevant committee, every candidate is required to submit his/her thesis for examination for the degree of Doctor of Business and Management by no later than the end of the seventh year after his/her entry upon the approved course of study.
13. Where the progress and quality of the candidate's research justify it, the relevant committee is empowered to reduce the required minimum period of study, as specified in Article 5 of Ordinance X provided that no candidate shall submit for examination before the completion of a total of three calendar years of part-time study.

14. Following examination the examiners will be asked to make one of the following recommendations :
- (a) Pass
 - (b) Pass – subject to the correction of “minor editorial corrections” or “stated minor deficiencies”. These corrections must be made within four or twelve weeks respectively from the date of the oral examination. The internal examiner is responsible for ensuring that minor errors or minor deficiencies are corrected by the candidate. The degree will not be awarded until confirmation is received that the corrections have been made.
 - (c) Referral (see 15 below)
 - (d) Fail: the candidate has no further opportunity for submission.
15. If the thesis is not considered to be of sufficiently high standard to recommend the award of the degree of DBM but there is evidence of the potential of a successful DBM submission, then on the recommendation of the examiners the candidate will be granted permission to resubmit the work in a revised form for the degree of DBM within a period of eighteen months, on one occasion only and on payment of an additional fee.
16. The recommendation of the examiners is subject to confirmation by the Graduate Board’s Examinations Group which will consider the examiners’ report.

Course Failure

17. Candidates will normally be deemed to have failed the DBM programme and be asked to withdraw if:
- (i) they fail to meet the requirements for the initial modular study element of the programme namely: to have taken all 180 taught credits in years one and two of the programme and to have passed at 180 credits with an average of 60% or more
 - (ii) they fail to satisfy the transfer panel; or
 - (iii) they fail to satisfy the examiners in the final thesis.

Exit Points

18. Candidates who leave without completion of the research thesis element of the programme may, provided that they have satisfied the relevant regulations for the award of these qualifications:
- (i) elect to graduate with the Postgraduate Certificate in Business, Economics and Management Research subject to meeting the requirements for the award of the Postgraduate Certificate (as set out in Ordinance XI (Taught Postgraduate Awards)).
 - (ii) elect to graduate with the Postgraduate Diploma in Business, Economics and Management Research subject to meeting the requirements for the award of the Postgraduate Diploma (as set out in Ordinance XI (Taught Postgraduate Awards)).
 - (iii) elect to graduate with the MA in Business, Economics and Management Research subject to meeting the requirements for the award of the MA (as set out in Ordinance XI (Taught Postgraduate Awards)).

Doctor of Education

Programme of Study for the degree of Doctor of Education

1. Candidates may be accepted for study towards the degree of Doctor of Education in the School of Education. A Management Committee is responsible for the arrangements for research degree study in this school.
2. The following may be accepted as candidates for the degree of Doctor of Education:
 - (i) graduates of an approved university or equivalent institution who have been awarded at an appropriate standard, a masters degree in a subject area relevant to the proposed research;
 - or*
 - (ii) graduates of an approved university or equivalent institution with an upper second class honours degree or above in a subject area relevant to the proposed research;
 - or*
 - (iii) persons holding such other qualifications as may be deemed by the relevant committee, to be acceptable as equivalent to or in lieu of a degree.
3. A candidate applying for acceptance for the degree under the provisions of (iii) may be required to present evidence of a satisfactory general education or, in the absence of such evidence, may be required to pass an examination to be prescribed in each case by the relevant committee before his/her acceptance.
4. Students who have achieved master's level accreditation for study within an approved university or equivalent institution may apply for accreditation of up to a maximum of 90 credits in taught components of their EdD programme.¹ All applications for such accredited prior learning are considered on their merits and awards of credit transfer are made at the discretion of the Management Committee, in accordance with published guidelines for the degree, and subject to approval by the relevant University committee. The following will apply:
 - (a) applications should be made at the time of EdD application and, in all cases, applications must be processed by the end of the first semester;
 - (b) for credit to be eligible for transfer it must have been awarded within five years prior to the commencement of EdD registration;
 - (c) accredited prior learning may be granted only against the taught modules within the EdD programme and may be granted only in so far as the prior learning relates to the applicant's proposed EdD programme;
 - (d) accredited prior learning is not allowable, in any circumstances, against the EdD thesis or the thesis preparation components;

¹ Students on MA, MEd or MSc programmes in the School of Education, University of Leeds, who wish to cease their MA, MEd or MSc programmes and begin the EdD programme may apply for accreditation of up to a maximum of 120 credits in taught component.

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(e) other arrangements deemed acceptable by the relevant University committee, in lieu of (a) – (d) above.

5. On entry to the degree candidates will declare a specialist field of study, this is a general area in which they will concentrate their studies, and from which they will develop the topic of their thesis. On entry every candidate will be appointed an individual academic supervisor charged with discussing and advising on the coherence of modular choices in relation to the intended thesis area (specialist field of study). Examples of specialist fields of study include:

Educational administration and management

Educational psychology

Mathematical education

Policy studies

Post-compulsory and continuing education

Lifelong learning

Primary education

Science education

Special education

TESOL

Teacher education and mentoring

ICT in Education

Vocational education

Education and Training 14-19

Adult and continuing education

Higher and further education

Additional fields of study will be approved from time to time.

Content of Programme of Study

Taught Modules

6. Candidates are required to study modules totalling 150 credits¹ (this will normally be 5 x 30 credit modules). The composition of the taught modular courses will be as follows:
- 2 x 30 credits research methods modules (in exceptional circumstances, candidates may request the Management Committee to consider the substitution of 30 credits of research methods modules by 30 credits of specialist research methods modules)
 - 2 x 30 credits thesis-related specialist content modules
 - 1 x 30 credits research method or thesis-related specialist content module
- Up to three (90 credits) of the total five modules (150 credits) may be directed studies. The modules available are listed in the University's Taught Postgraduate Catalogue.
7. Part-time candidates upon successful completion of taught modules totalling 120 credits may submit a formal application to the Graduate Board for a 6 month break from their studies for the purpose of maintaining their professional career. The career break will

¹ In the absence of Accredited Prior Learning (APL).

normally be taken immediately after submission of work totalling 150 credits and never before.

Thesis preparation component and upgrade process

8. Candidates will in the first instance be accepted to the degree of Provisional EdD. Candidates are required to undertake a supervised study designed to yield the documentation necessary for consideration in the upgrade to full EdD registration process. It will include presentation of relevant literature, indication of research questions, indication of methodology and its rationale (design, including indication of proposed analysis) and a timeline.
9. The study requirements¹ for all of the taught modules must be completed before the upgrade process can take place. The upgrade point is the point at which the student's progress through the programme components is assessed. For a part-time candidate this will normally be by no later than 36 months of study and for a full-time candidate this will normally be by no later than 24 months of study.
10. An assessment panel will be established, in accordance with the University's Code of Practice for Research Degree Candidatures, to assess each candidate for transfer to full EdD registration. The student must be interviewed by the assessment panel and this assessment should take the form of a viva voce examination. The panel will assess, as part of the upgrade process, the thesis preparation component and an overall assessment of either satisfactory or unsatisfactory will be made.
11. A candidate who is initially unsuccessful in the upgrade process may be given, at the discretion of the transfer panel, one further opportunity for review normally within a period of three months (six months at the maximum). Notes for Guidance on the preparation of a further submission will be given to the candidate by the transfer panel.
12. The thesis preparation component will not be graded on a mark scale and will thus not contribute to the profile of assessed module grades. However, a candidate must successfully complete the transfer review process before being permitted to continue with their studies. Following a successful transfer review a recommendation will be sent forward for consideration by the relevant University committee that a candidate be transferred to full EdD status, together with the name(s) of the supervisor(s) and proposed thesis title. The work contained within the thesis preparation component may subsequently be revised to form part of the thesis.

Examination and Assessment

Research Project

13. Candidates are required to submit a thesis for examination of up to 55,000 words in length in the area of their specialist field of study and satisfy the examiners as specified in Ordinance X and its associated Regulations.

¹ "Study requirements" refers to attendance at classes, tutorials, etc. rather than to assignment completion or grading, since waiting for the latter could seriously delay the upgrading point.

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14. Except with the special permission of the relevant committee, every candidate is required to submit his/her thesis for examination for the degree of Doctor of Education by no later than:
 - (i) the end of the fourth year after his/her entry upon the approved course of full-time study and research; or
 - (ii) the end of the seventh year after his/her entry upon the approved course of part-time study and research.
15. Where the progress and quality of the candidate's research justify it, the relevant committee is empowered to reduce the required minimum period of study, as specified in Article 5 of Ordinance X provided that no candidate shall submit for examination before the completion of:
 - (i) a total of two calendar years of full-time study; or
 - (ii) a total of three calendar years of part-time study.
16. Following examination, the examiners will be asked to make one of the following recommendations.
 - (a) Pass.
 - (b) Pass (subject to the correction of 'minor editorial corrections' or 'stated minor deficiencies'): these corrections must be made within four or twelve weeks respectively from the date of the oral examination. The internal examiner is responsible for ensuring that minor errors or minor deficiencies are corrected by the candidate. The degree will not be awarded until confirmation that the corrections have been completed is received.
 - (c) Referral (see 17 below).
 - (d) Fail: the candidate has no further opportunity for submission.
17. If the thesis is not considered to be of sufficiently high standard to recommend the award of the degree but there is evidence of the potential of a successful EdD submission, then on the recommendation of the examiners the candidate will be granted permission to resubmit the work in a revised form for the degree of EdD within a period of eighteen months, on one occasion only and on payment of an additional fee.
18. The recommendation of the examiners is subject to confirmation by the Graduate Board's Examinations Group which will consider the examiners' report.
19. Learning Outcomes for the degree of Doctor of Education are published in a later section.

Course Failure

20. Candidates will normally be deemed to have failed the course and be asked to withdraw from the programme if:
 - (i) they fail to meet the requirements for modular study namely: marks at or above 60% in 60% of their credits and no mark below 50% in the remaining 40% of their credits;

or

 - (ii) they fail to satisfy the transfer assessment panel;

or

(iii) they fail to satisfy the examiners in the research thesis.

Learning Outcomes / Transferable Key Skills / Learning Context / Assessment for the degree of EdD

1. Learning Outcomes

Learning Outcomes for taught components; students will be able to

- demonstrate in-depth, specialist knowledge and mastery of techniques relevant to the discipline and/or to demonstrate a sophisticated understanding of concepts, information and techniques at the forefront of the discipline;
- exhibit mastery in the exercise of generic and subject-specific intellectual abilities;
- demonstrate a comprehensive understanding of techniques applicable to their own research or advanced scholarship;
- take a proactive and self-reflective role in the working and develop professional relationships with others;
- proactively formulate ideas and hypotheses and develop, implement and execute plans by which to develop these;
- critically and creatively evaluate current issues, research and advanced scholarship in the discipline.

Learning Outcomes for research components; students will be able to

- discover, interpret and communicate new knowledge through original research of publishable quality which would satisfy peer review and/or contribute to scholarship within a professional context;
- independently and proactively formulate ideas and design, develop, implement and execute plans by which to evaluate these;
- demonstrate systematic and extensive knowledge of the subject and expertise in generic and subject/professional skills;
- critically and creatively evaluate current issues, research and advanced scholarship in the relevant field of education;
- demonstrate a comprehensive understanding of techniques applicable to own research and engage with the relevant ethical or legal issues in the specialist educational field;
- present and defend research outcomes which extend the forefront of the discipline and/or relevant area of professional practice;
- take a proactive and self reflective role in working and develop professional relationships with others where appropriate;

2. Transferable (Key) Skills

Students will have had the opportunity to acquire the following abilities through the research training and research specified for the programme

- the skills necessary for a career as a researcher and/or for employment in a senior and leading capacity in a relevant area of professional practice or industry;
- evaluating their own achievement and that of others;

- self-direction and effective decision making in complex and unpredictable situations;
- independent learning and the ability to work in a way which ensures continuing professional development;

3. Learning Context

The learning context will include the critical analysis of, and decision making in, complex and unpredictable professional situations. The structure of the programme will provide research and/or professional training, breadth and depth of study and opportunities for drawing upon appropriate resources and techniques. Opportunities will be provided for students to:

- develop to a high level interests and informed opinions
- develop to a high level their design and management of their learning activities
- develop to a high level their communication of their conclusions;
- make an original contribution to the field

Students will be expected to engage in the exercise of autonomous initiative in their study and work in professional environments.

4. Assessment

Achievement will be assessed by the examination of the candidate's thesis and performance under oral examination. During the course of the programme there will also be assessment of achievement by a variety of methods in accordance with the learning outcomes of any taught modules specified for the programme. Final assessment will involve the achievement of the candidate in:

- evidencing an ability to conduct original and independent broad and in-depth enquiry within the discipline or within different aspects of the area of professional practice normally leading to published work;
- drawing on and/or developing a range of research techniques and methodologies appropriate to enquiries into the discipline/area of professional practice;
- demonstrating independent critical ability in the application of breadth and depth of knowledge to complex issues within the discipline or specialist area of professional practice;
- drawing on a range of perspectives on the area of study;
- evaluating and criticising received opinion;
- making reasoned and well-informed judgements on complex issues within the specialism whilst understanding the limitations on judgements made in the absence of complete data
- the written style and overall presentation of the thesis.

Degree of Doctor of Public Management

Programme of Study for the degree of Doctor of Public Management¹

1. The following may be accepted as candidates for the Professional Doctorate in Public Management:
 - (i) graduates of an approved university or equivalent institution who have been awarded at an appropriate standard, a masters degree in a subject area relevant to the proposed area of research;
 - or*
 - (ii) graduates of an approved university or equivalent institution with an upper second class honours degree or above in a subject area relevant to the proposed research;
 - or*
 - (iii) persons holding such other qualifications as may be deemed by the relevant committee, to be acceptable as equivalent to or in lieu of a degree.
2. Candidates will in the first instance be accepted as a provisional candidate for the degree of DPM. On entry every candidate will be allocated to a supervisor who will guide him or her through the taught element of the programme. Upon transfer to the research element of the programme, students will be allocated an additional supervisor who is an expert in their chosen field of study.
3. Candidates accepted will proceed by attending a programme of advanced study which will include:

Content of Programme of Study

4. Candidates are required to study modules totalling 180 credits (in the absence of Accredited Prior Learning (APL)).
5. The composition of the taught modular courses will be as follows:
 - 1 x 15M credit research methods, approaches and practices module
 - Up to 165M credits of optional modules
 - Up to 30M credits of elective modules
6. A list of taught optional modules approved for the degree is available from the School of Medicine. A list of elective modules can be found in the University's Taught Postgraduate Catalogue.
7. The study requirements for all of the taught modules must be completed before the upgrade process can take place. The upgrade point is the point at which the student's progress through the programme components is assessed. For a part-time candidate this will normally be no later than 24 months of study, in exceptional cases 36 months, and for a full-time candidate this will normally be at 12 months of study, and by no later than 18 months.

¹ No further candidates to be admitted to this programme. The programme will be withdrawn in 2012-13.

8. An assessment panel will be established in accordance with the University's Code of Practice for Research Degree Candidatures, to assess each candidate for transfer to full DPM registration. The student must be interviewed by the assessment panel and this assessment should take the form of a viva voce examination, based on the student's transfer report and in accordance with the School of Medicine's transfer presentation guidelines.
9. A candidate who is initially unsuccessful in the upgrade process may be given, at the discretion of the transfer panel, one further opportunity for review. Notes for Guidance (drawn from the School of Medicine's transfer presentation guidelines) on the preparation of a further submission will be given to the candidate by the transfer panel.
10. A candidate must successfully complete the transfer review process before being permitted to continue with their studies. Following a successful transfer review the School of Medicine will send forward a recommendation for consideration by the relevant committee that a candidate be transferred to full DPM status, together with the names of the supervisors and proposed thesis title.
11. The work contained within the transfer report may subsequently be revised to form part of the thesis.

Examination and Assessment

12. Candidates are required to submit a thesis for examination of up to 60,000 words in length in the field of public/not for profit sector management and leadership and satisfy the Examiners as set out in Ordinance X and its associated Regulations.
13. Except with the special permission of the relevant committee, every candidate is required to submit his/her thesis for examination for the degree of Doctor of Public Management by no later than:
 - (i) the end of the fourth year after his/her entry upon the approved course of full-time study and research; or
 - (ii) the end of the seventh year after his/her entry upon the approved course of part-time study and research.
14. Where the progress and quality of the candidate's research justify it, the relevant committee is empowered to reduce the required minimum period of study, as specified in Article 5 of Ordinance X provided that no candidate shall submit for examination before the completion of:
 - (i) a total of two calendar years of full-time study; or
 - (ii) a total of three calendar years of part-time study.
15. Following examination, the examiners will be asked to make one of the following recommendations.
 - (a) Pass.
 - (b) Pass (subject to the correction of 'minor editorial corrections' or 'stated minor deficiencies'): these corrections must be made within four or twelve weeks respectively from the date of the oral examination. The internal examiner is responsible for ensuring that minor errors or minor deficiencies are corrected by the

candidate. The degree will not be awarded until confirmation that the corrections have been completed is received.

(c) Referral (see 16 below).

(d) Fail: the candidate has no further opportunity for submission.

16. If the thesis is not considered to be of sufficiently high standard to recommend the award of the degree but there is evidence of the potential of a successful DPM submission, then on the recommendation of the examiners the candidate will be granted permission to resubmit the work in a revised form for the degree of DPM within a period of eighteen months, on one occasion only and on payment of an additional fee.
17. The recommendation of the examiners is subject to confirmation by the Graduate Board's Examinations Group which will consider the examiners' report normally at the next meeting.

Course Failure

18. Candidates will normally be deemed to have failed the course and be asked to withdraw from the programme if:

- (i) they fail to meet the requirements for modular study namely: a mark of 60% in the Research Methods, Approaches and Practices module, an average of 60% across 180 credits and no mark below 50%; or
- (ii) they fail to satisfy the transfer panel; or
- (iii) they fail to satisfy the examiners in the research thesis.

19. Students who leave without completion of the research element of the programme may, provided that they have satisfied the relevant regulations for the award of these qualifications:

Elect to graduate with the Postgraduate Diploma in Management and Leadership subject to passing 120M credits at an average of 50% and over;

or

Elect to undertake a masters level dissertation and graduate with the MA Management and Leadership subject to passing 180M credits at an average of 50% and over, and achieving a minimum mark of 50% for the dissertation.

Doctor of Clinical Psychology

Programme of study for the degree of Doctor of Clinical Psychology

1. The following may be accepted as a candidate for the degree of Doctor of Clinical Psychology:

Graduates of an approved university or holders of a recognised degree awarded as a result of study at an approved institution other than a university, or holders of any other qualification approved for this purpose by the Senate, provided that the programme of study in the subject for which the qualification has been awarded has extended over not less than three years full-time study or equivalent part-time study and is acceptable to the Senate as being an adequate preparation for the research proposed, and which is recognised by the British Psychological Society as meeting the necessary qualifications for the Graduate Basis for Chartered Membership of the British Psychological Society.

2. The programme commences in October and is designed for approved graduates with a good honours degree in Psychology, either as a single subject or as a principal subject in a combined studies programme. Candidates are also required to hold for the duration of the programme a clinical contract or an honorary clinical contract with the Leeds Teaching Hospitals NHS Trust. The scheme is offered jointly by the School of Medicine, Institute of Health Sciences, Academic Unit of Psychiatry and Behavioural Sciences, and the Institute of Psychological Sciences. Initial enquiries concerning applications for admission should be made to the National Clearing House for Clinical Psychology Courses, University of Leeds.
3. Candidates will in the first instance be accepted as a Provisional candidate for the degree of DClinPsychol.
4. Candidates pursuing the programme of study are required to observe relevant procedures in relation to ethical issues.
5. Candidates accepted will proceed by attending a programme of advanced study which will include:

(a) Formal instruction in the following subjects: approximately 700 hours teaching

Foundations of Practice I
Foundations of Practice II
Foundations of Practice III
Introduction to Personal Development
Continuing Personal Development
Consolidating Personal Development
Professional Issues I
Professional Issues II
Professional Issues III
Introduction to research methods
Advanced research methods: design and analysis
Thesis: writing up and viva preparation

(b) Five clinical placements; supervised and assessed experience of the application of psychological techniques of investigation and treatment: 300 days (minimum)

- (c) Three pieces of research: a systematic case study; a service evaluation project; and a psychological investigation of clinical relevance presented in the form of a thesis.

Examinations and Assessments

6. Year 1

During the first year of the programme progress will be assessed by:

Two essays of no more than 5,000 words each. The subjects of the essays will be:

The evidence base for clinical practice 1 (to be submitted by the end of semester 1)

The evidence base for clinical practice 2 (to be submitted by the end of semester 2)

A presentation and a written report of a problem based learning exercise (To be submitted by 15 October in the second year of the programme).

Two periods of supervised clinical practice.

A systematic case study (5,000 words maximum) (to be submitted by 15 October in the second year of the Course, the work having been completed by end of the second clinical placement).

7. Year 2

In the second year progress will be assessed by:

One assessed essay to be submitted by the end of the second semester (5000 words maximum), the subject of the assessed essay will be:

Professional Issues

Two periods of supervised clinical practice.

A report of a Service Evaluation Project (5,000 words maximum) (to be submitted by 15 November in the third year of the programme with the work having been completed by the end of the second period of supervised clinical practice in Year 2)

During the second year of the programme candidates are required to submit a research proposal and a report on their progress (Thesis Review). The thesis review documentation will be submitted by March 15 and will comprise:

- (a) A literature review (5000 words maximum) pertinent to the chosen topic of study that critically defines the topic area and the rationale for the study
- (b) A critical review of the methodology to be used in the research (3000 words maximum) to include a justification for selecting the method and specification of the proposed data analysis
- (c) A progress report (2000 words maximum) to include a commentary on progress with respect to the application to ethics committees, recruitment to the study, a timetable for the project, and an audit of the student's skills and needs.

This will normally be assessed by the end of April and an oral examination will be conducted.

8. Year 3

In the third year of the programme students will submit one assessed essay (5,000 words maximum) by the end of the second semester on the subject:

DOCTOR OF CLINICAL PSYCHOLOGY

A critical review of an area of advanced study in clinical psychology

One period of supervised clinical practice.

A thesis on an empirical investigation of a substantive problem in the field of clinical psychology (40,000 words maximum).

Progression and Programme Failure

9. Students whose assessed essays, evaluation of the problem based learning exercise, systematic case study and service evaluation project fail to satisfy the examiners at the first attempt may normally be permitted to resubmit the assessment for further examination on one occasion only within 3 months of the date on which they were informed of the failure.
10. Students are required to satisfy the examiners in five periods of supervised clinical placements. The periods of supervised clinical placements will be assessed by ratings and reports from the clinical supervisor submitted at the end of each period of supervised practice. Reports of clinical competence will normally be considered by the Board of Examiners within one month of the end of each period of supervised clinical practice.
11. Students whose performance on a supervised clinical placement fails to satisfy the examiners at the first attempt are not permitted to repeat the period of supervised clinical placement. Students will be required to undertake an additional supervised clinical placement.
12. Candidates must present a thesis (40,000 words maximum) on the subject of his/her research and satisfy the examiners as specified in Ordinance X and its associated Regulations. In exceptional circumstances candidates may, with the approval of their supervisor, include Appendices (up to 20,000 words maximum) which will not be counted towards the overall word length of the thesis.
13. Except with the special permission of the relevant committee, every candidate is required to submit his/her thesis for examination for the degree of Doctor of Clinical Psychology by no later than the end of the fourth year after his/her entry upon the approved course of full-time study and research.
14. Following examination of the thesis, the examiners will be asked to make one of the following recommendations.
 - (a) Pass.
 - (b) Pass (subject to the correction of 'minor editorial corrections' or 'stated minor deficiencies'): these corrections must be made within four or twelve weeks respectively from the date of the oral examination. The internal examiner is responsible for ensuring that minor errors or minor deficiencies are corrected by the candidate. The degree will not be awarded until confirmation that the corrections have been completed is received.
 - (c) Referral (see 15 below)
 - (d) Fail: the candidate has no further opportunity for submission.
15. If the thesis is not considered to be of sufficiently high standard, then on the recommendation of the examiners if there is evidence of the potential of a successful

D.Clin.Psychol. submission the candidate will be granted permission to resubmit the work in a revised form for the degree of D.Clin.Psychol. within a period of eighteen months, on one occasion only and on payment of an additional fee.

16. Candidates will normally be deemed to have failed the Course and be asked to withdraw from the programme if they:

(1) fail any two pieces of work from the following:

- Assessed essays (4)
- Evaluation of problem based learning exercise
- Systematic Case Study
- Service Evaluation Project
- Supervised clinical placements;

or

(2) fail the thesis review;

or

(3) fail to satisfy the examiners in the Research Thesis. There is no opportunity for re-examination where the examiners recommend a research degree thesis is failed;

or

(4) commit gross professional misconduct or cease to have an appropriate clinical contract with the NHS.

17. The recommendation of the examiners is subject to confirmation by the Graduate Board's Examinations Group which will consider the examiners' report normally at the next meeting.

18. The award of the Doctor of Clinical Psychology confers (i) eligibility for entry as a clinical psychologist into the register of the Health Professions Council, and (ii) eligibility for Chartered Membership of the British Psychological Society.

Learning Outcomes / Transferable Key Skills / Learning Context / Assessment for the degree of DClinPsychol

1. Learning Objectives and Outcomes

The thematic learning objectives and elemental learning outcomes

Clinical Practice

The thematic **learning objectives** are to enable the student to:

1. prepare effectively for, and engage in the supervisory process
2. facilitate and maintain a therapeutic alliance with clients, carers groups and staff, and manage challenging situations
3. select, administer and interpret psychometric and idiosyncratic assessments, including risk assessment
4. develop and use formulations to prepare an action plan and re-formulate in light of further information

5. make theory-practice links, and adapt interventions within differing theoretical models to individual needs
6. write and give oral reports of work undertaken, demonstrating adequate and careful assessment of outcome
7. conduct appropriate research and be able to use individual and departmental evaluation and auditing procedures
8. demonstrate knowledge of the organisational setting and the need to work collaboratively with other professionals and colleagues
9. plan formal and informal teaching sessions appropriately, facilitate the co-operative engagement of the training group and monitor effectiveness
10. demonstrate a range of personal development strategies, professional attitudes and behaviour, including an awareness of power and socio-political issues.

The **learning outcomes** disaggregated from the above are as follows:

Ref. objective 1 the student should be able to:

- a) understand the roles of both supervisor and student in the supervision process
- b) prepare for supervision
- c) engage in the supervisory process (for example, asking for provision of / access to knowledge and learning; giving and receiving feedback and constructive criticism; engage in constructive debate; acknowledge mutual value and respect)
- d) utilise supervision to discuss support issues and needs (including the knowledge and awareness of the boundaries between supervision and support, and acceptance that the supervisor should not act in the role personal therapist).

Ref. objective 2 the student should be able to:

- a) facilitate a therapeutic alliance, demonstrating empathy and a respectful attitude to clients, groups, carers and colleagues
- b) demonstrate knowledge and application of anti-oppressive practice
- c) show an awareness of boundary and termination issues
- d) exhibit skills in managing challenging situations.

Ref. objective 3 the student should be able to:

- a) conduct appropriate interviews, including taking a detailed history
- b) select appropriate assessment procedures
- c) administer and interpret psychometric assessments
- d) administer and interpret idiosyncratic assessments
- e) conduct appropriate risk assessment.

Ref. objective 4 the student should be able to:

- a) use theory in developing a formulation and action plan
- b) reformulate problems and situations in the light of further information
- c) incorporate socio-political context in formulations.

Ref. objective 5 the student should be able to:

- a) demonstrate knowledge of the empirical basis of treatments / interventions, including knowledge of and critical appraisal of relevant literature

- b) make theory-practice links
- c) adapt interventions to individual needs
- d) utilise and interpret appropriate measures to evaluate outcome
- e) assess when further intervention may not be appropriate.

Ref. objective 6 the student should be able to:

- a) write reports of work undertaken (formal reports, letters etc.) and be prompt with completion
- b) give oral reports of work undertaken
- c) be clear, comprehensive and concise; express aims and nature of intervention
- d) clearly; demonstrate adequate and careful assessment of outcome.

Ref. objective 7 the student should be able to:

- a) conduct appropriate research
- b) utilise individual evaluation and auditing procedures
- c) utilise departmental evaluation and auditing procedures.

Ref. objective 8 the student should be able to:

- a) work collaboratively with others (clients / partners / families / carers / colleagues), including using a consultancy model
- b) contribute to multi-disciplinary teams (e.g. meetings, case conferences)
- c) demonstrate an understanding of the organisation of the professional setting in which the placement is based, and the change process involved in service delivery systems
- d) demonstrate an understanding of the interface with other services and agencies, and the relevant legislation, national planning, and the salient issues for clients and their families / carers (including professional practice guidelines)
- e) work with users and carers to facilitate their involvement in service planning and delivery.

Ref. objective 9 the student should be able to:

- a) plan and prepare appropriately for both formal and informal teaching (consider the aims, the needs of participants, methods available, and the use of handouts and other teaching aids)
- b) facilitate the co-operative engagement of the training group (with the use of appropriate language, an awareness of responses from the training group and adaptation of content to a changing process)
- c) monitor effectiveness and utilise structured feedback mechanisms, as well as self-appraisal.

Ref. objective 10 the student should be able to:

- a) demonstrate professional attitudes and behaviour (reliable and responsible, open to learn, exhibiting an ethical framework for all aspects of work)
- b) exhibit an active and continuous commitment to develop self-knowledge and self-awareness
- c) manage an appropriate case and workload (takes responsibility for this and is prepared to negotiate; is able to prioritise; demonstrates ability to take on and plan

- work after general discussion; recognises when further consultation is necessary and requests assistance when in difficulty)
- d) recognise and understand inherent power imbalances and how these may be minimised
 - e) work effectively with difference and diversity in individuals' lives.

Personal and Professional Development

The thematic **learning objectives** for this theme are grouped. They are to enable the student to:

Power and socio-political context issues

- 1.1 understand the importance and relevance of issues to do with power and social inequalities, on both a personal and professional level
- 1.2 work effectively with difference and diversity

Personal development

- 2.1 show an active continuous commitment to develop self-knowledge and self-awareness

Professional attitudes and behaviour

- 3.1 show a consistently open attitude towards all aspects of learning and development
- 3.2 fulfil the employer's expectations regarding professional behaviour, including active engagement in all supervisory arrangements
- 3.3 demonstrate an ethical framework for all aspects of work, including a working knowledge of relevant practice guidelines, policies and legislation
- 3.4 work collaboratively and constructively with other professionals, colleagues and users of services
- 3.5 behave respectfully to others at all times
- 3.6 prepare for professional employment, having clear aims and objectives for continued professional development

Professional autonomy and professional limits

- 4.1 manage a workload, including multi-tasking, and show a clear recognition of the limits of individual competence.

The **learning outcomes** disaggregated from the above are as follows:

Ref. objective group 1 the student should be able to:

- a) recognise and understand the effects of power imbalances, and how they can be minimised
- b) critique a range of theoretical models and related practices for the ways in which power imbalances and social inequalities are maintained and reproduced
- c) understand the roots of oppression and its role in the aetiology of psychological disturbance, and the consequential need to develop anti-oppressive practices
- d) recognise and work with difference and diversity, and commit to developing cultural (in the broadest sense, including e.g. issues to do with class, gender, dis/ability, ethnicity, sexuality) competency in all aspects of professional life

- e) apply knowledge and understanding in all these areas in an increasingly sophisticated manner, and in increasingly complex situations

Ref. objective group 2 the student should be able to:

- a) experiment with a variety of personal development strategies, and explore new ways of interacting with others
- b) engage with the personal and professional development curriculum and goals, maintaining an open attitude
- c) adopt strategies to manage the emotional and physical impact of the work, and seek out help when required
- d) invite critical comment and respond in a constructive manner

Ref. objective group 3 the student should be able to:

- a) demonstrate a continuing openness and keenness to learn, to seek knowledge and develop new skills
- b) demonstrate active participation in all supervisory relationships and arrangements, including negotiation, preparation, utilisation and recording of sessions
- c) manage own learning needs and develop strategies for meeting them
- d) demonstrate reliability, conscientiousness, and an ability to meet deadlines
- e) apply expertise in judging the consequences, for self and others, of maintaining / relaxing boundaries in all professional relationships
- f) approach conflict situations with thoughtfulness, and from a constructive stance
- g) consistently consider ethical issues and apply these considerations in complex clinical contexts
- h) actively consider attempts to gain informed consent
- i) understand and put into practice the boundaries and limitations of confidentiality
- j) demonstrate knowledge of professional practice guidelines
- k) understand the importance and have knowledge of relevant local and national policies, procedures, guidelines and legislation, and their relevance to professional practice
- l) work collaboratively and constructively with other psychologists, other professionals, and users of services, respecting diverse viewpoints
- m) show a respectful and valuing attitude to all others
- n) demonstrate knowledge and understanding of employment practices and related issues
- o) demonstrate appropriate preparation for job interviews
- p) demonstrate a purposeful plan for continued professional development.

Ref. objective group 4 the student should be able to:

- a) negotiate for and manage an appropriate case and workload at different stages of training, and prioritise the caseload effectively
- b) recognise the extent and limitations of personal and professional competence and seek out timely and appropriate consultation and assistance when required
- c) develop the ability to multi-task

Research

The thematic **learning objectives** are to enable the student to:

1. identify and devise an original research question set in the context of existing research and theoretical models, and current priorities and opportunities
2. identify, access, collect, record, manage, analyse and synthesise information, using an appropriate research method and solving problems that arise during the process
3. be aware of the strengths and limitations of different research designs, and be able to critically appraise their own findings and those of others
4. present and defend ideas and outcomes, using appropriate media
5. demonstrate an understanding of the ways in which research may be communicated to enhance the impact on practice and support the learning and teaching of others
6. understand and comply with relevant legal, ethical, health and safety issues
7. comprehend the distinctions between methods appropriate to theoretical and service research, and the political, social and cultural context within which these fall
8. demonstrate the skills needed to interact / collaborate with participants, colleagues and organisations during the research process
9. appreciate the utility of research in developing clinical practice, and the factors that influence change in individuals and organisations
10. manage a research project using the necessary equipment and techniques, to meet specified outcomes within the time allocated.

The **learning outcomes** disaggregated from the above are as follows:

Ref. objective 1 the student should be able to:

- a) identify an original topic for research and /or original problem to be tackled
- b) formulate the topic or problem into a research question(s) that may be answered
- c) devise a research method appropriate for answering the research question
- d) carry out a research project to completion
- e) set research in the context of previous research and knowledge, and current priorities and opportunities
- f) relate one's own findings to existing research and model development
- g) develop theoretical concepts.

Ref. objective 2 the student should be able to:

- a) identify and access appropriate library and/or archive-based information
- b) collect, record and manage information and/or findings
- c) analyse and synthesise information and/or findings
- d) recognise and demonstrate originality and independent thinking
- e) demonstrate practical and analytical skills
- f) demonstrate problem-solving skills.

Ref. objective 3 the student should be able to:

- a) be aware of the strengths and limitations of different research designs including quantitative and qualitative approaches

- b) critically evaluate one's own findings and those of others.

Ref. objective 4 the student should be able to:

- a) present and defend ideas and outcomes of research using appropriate media such as oral presentations, posters, published documents, conference contributions, progress reports etc.
- b) present research outcomes in the form of a thesis and defend them at viva.

Ref. objective 5 the student should be able to:

- a) understand the ways in which research may be communicated to enhance the impact on practice
- b) support the learning and research of others.

Ref. objective 6 the student should be able to:

- a) understand relevant ethical and legal issues and the importance of maintaining the well-being of research participants
- b) appreciate and comply with the systems for ensuring ethical research practice e.g. local research ethics committees and research governance
- c) understand and act upon relevant health and safety issues e.g. personal safety when data collecting
- d) demonstrate responsible working practice.

Ref. objective 7 the student should be able to:

- a) appreciate the distinctions between theoretical and service research, audit and case studies, and the methods appropriate for each
- b) demonstrate an understanding of the political, social and cultural context of research.

Ref. objective 8 the student should be able to:

- a) interact appropriately with participants, colleagues and organisations during the research process
- b) collaborate successfully with other researchers from the same or different organisations.

Ref. objective 9 the student should be able to:

- a) appreciate the clinical implications of one's own and other's research
- b) understand the role of research in changing practice and the other factors influencing change in individuals and organisations
- c) appreciate the utility and limitations of research evidence for clinical practice.

Ref. objective 10 the student should be able to:

- a) plan and organise a programme of research so as to submit his/her thesis within the standard period of study
- b) show flexibility and adaptability in managing a research project
- c) appreciate and manage relationships with supervisors, team members and others
- d) use IT packages and techniques to carry out relevant tasks

- e) manage own learning by e.g. identifying personal strengths and training needs, setting objectives, drawing upon/using sources of support, attending relevant training events and recording and reflecting on progress.

2. Assessment

Achievement will be assessed by the examination of the candidate's thesis and performance under oral examination. It will also include the assessment of achievement by a variety of methods in accordance with the learning outcomes of the taught and clinical modules specified for the programme. Assessment will involve the achievement of the candidate in:

- evidencing an ability to conduct original and independent broad and in-depth enquiry within the discipline or within different aspects of the area of professional/clinical practice normally leading to published work;
- drawing on and/or developing a range of research techniques and methodologies appropriate to enquiries into the discipline/area of professional practice;
- demonstrating independent critical ability in the application of breadth and depth of knowledge to complex issues within the discipline or specialist area of professional/clinical practice;
- drawing on a range of perspectives on the area of study;
- evaluating and criticising received opinion;
- making reasoned and well-informed judgements on complex issues within the specialism whilst understanding the limitations on judgements made in the absence of complete data
- the written style and overall presentation of the thesis.

Doctor of Clinical Dentistry

Programme of Study for the degree of Doctor of Clinical Dentistry

The Doctor of Clinical Dentistry is offered on a full-time and part-time basis. Candidates will be expected to undertake one of four specialties: Restorative Dentistry, Paediatric Dentistry, Orthodontics or Dental Public Health. The standard period of study for the full-time programme is 3 years and for the part-time programme is 5 years. The maximum period before submission of the thesis is 4 years for the full-time and 7 years for the part-time programme. The programme will normally commence in September.

Admission

1. The following may be accepted as candidates for the degree of Doctor of Clinical Dentistry:

Graduates of an approved university or equivalent institution who have been awarded at the appropriate standard an Honours degree of Bachelor in Dentistry (BChD or BDS equivalent).

Applicants should also have postgraduate experience equivalent to two years full-time clinical practice.

Graduates seeking a Certificate of Completion of Specialist Training (CCST), in order to be eligible to register on the General Dental Council's (GDC) Specialist Lists, must be accepted onto the course as a Specialist Registrar (SpR) with an NTN (National Training Number). Providing all necessary requirements are met, such individuals are then eligible to undertake training for the relevant Royal College Memberships.

2. Where the applicant's first language is not English, applicants for admission to the programme leading to the award of the degree of Doctor of Clinical Dentistry must, before they can be admitted to the University, provide evidence that they have obtained normally the specified band score on one of the recognised English language qualifications as follows:
 - (i) British Council IELTS band score 7.0 (with not less than 6.5 in Listening, Reading, Speaking and Writing skills);
or
 - (ii) paper-based TOEFL 600 (with not less than 4.5 on the Test of Written English);
or
 - (iii) internet-based (iBT) TOEFL 100 (with not less than 22 in Listening, 24 in Reading and Speaking, and 25 in Writing).
3. Candidates will in the first instance be accepted as provisional DClinDent students.
4. On entry to the programme every candidate will be assigned a research supervisor (normally 2) and a clinical supervisor: in most cases one of the research supervisors will also fulfil the role of the clinical supervisor.

Content of Programme of Study

5. Candidates are required to complete both research and taught components totalling 540 credits and notional credits over the duration of the period of study.

The pattern of study for full-time candidates will be as follows:

Year 1

A total of 180 credits will be taken:

Transferable Skills Modules (10 credits);

Generic skills Modules (40 credits minimum for Restorative Dentistry, Paediatric Dentistry and Orthodontics specialties; 30 credits minimum for Dental Public Health specialty);

Specialist and Clinical Training Modules (60 maximum);

Service-related research and Major Research Project (70 notional credits for Restorative Dentistry, Paediatric Dentistry and Orthodontics specialties; 80 notional credits for Dental Public Health specialty).

Year 2

A total of 180 credits will be taken:

Transferable Skills Modules (10 credits);

Generic skills Modules (10 credits minimum for Dental Public Health route);

Specialist and Clinical Training Modules (60 maximum);

Researched Case Studies and Major Research Project (110 notional credits for Restorative Dentistry, Paediatric Dentistry and Orthodontics specialties; 100 notional credits for Dental Public Health specialty).

Year 3

A total of 180 credits will be taken:

Specialist and Clinical Training Modules (60 maximum);

Major Research Project (120 notional credits).

A full list of compulsory and optional modules is available within the Programme Handbook. Changes may be made from time to time to the titles of modular courses and the optional modular courses that are available.

For part-time candidates the number of taught credits taken will vary from year to year. However the total number of taught and research components to be taken each year is structured as follows.

Year 1 – a total of 120 credits

Year 2 – a total of 120 credits

Year 3 – a total of 110 credits

Year 4 – a total of 110 credits

Year 5 – a total of 80 credits

Progression

6. Candidates will be initially accepted as provisional DClindent students. By the end of the first 18 months for full-time study and 30 months for part-time study, candidates are required to prepare a report and undergo an assessment for transfer to the specific doctoral degree category of DClindent. An assessment panel will be established, in

accordance with the University's Code of Practice for Research Degree Candidatures and Faculty Protocol for the implementation of the University Code, to assess each candidate for transfer to full DClinDent registration. All candidates will be interviewed by an assessment panel and this will take the form of a viva voce examination.

A successful transfer is dependent upon the candidate having passed (ie. achieved a mark of 50% or above) all taught modules which have been delivered and examined up to the point of transfer.

7. A candidate who is initially unsuccessful in the transfer assessment may be given, at the discretion of the assessment panel, one further opportunity for review normally within a period of three months (six months at the maximum)) for full-time candidates and within six months (eight months at the maximum) for part-time candidates.
8. A candidate who is not recommended for transfer to full doctoral registration may be given the opportunity to complete the academic year and submit a dissertation that would form part of the requirements for the award of a Masters degree (see 18 (iii)).

Examination and Assessment

Research Project

9. The normal expectation is that candidates will successfully complete modular courses, accruing no less than 240 credits for the taught component, by the end of Year 3 for full-time study (or by the end of Year 5 for part-time study) and submit their theses for examination by the end of Year 4 for full-time study (or by the end of Year 7 for part-time study).
10. Candidates are required to submit a thesis for examination of up to 50,000 words in length in the area of their specialist field of study and satisfy the examiners as specified in Ordinance X and its associated Regulations.
11. Except with the special permission of the relevant committee, every candidate is required to submit his/her thesis for examination for the degree of Doctor of Clinical Dentistry by no later than:
 - (i) the end of the fourth year after his/her entry upon the approved course of full-time study and research; or
 - (ii) the end of the seventh year after his/her entry upon the approved course of part-time study and research.
12. Where the progress and quality of the candidate's research justify it, the relevant committee is empowered to reduce the required minimum period of study, as specified in Article 5 of Ordinance X provided that no candidate shall submit for examination before the completion of:
 - (i) a total of two calendar years of full-time study; or
 - (ii) a total of three calendar years of part-time study.
13. Following examination, the examiners will be asked to make one of the following recommendations:
 - (a) Pass.

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- (b) Pass (subject to the correction of 'minor editorial corrections' or 'stated minor deficiencies'): these corrections must be made within four or twelve weeks respectively from the date of the oral examination. The internal examiner is responsible for ensuring that minor errors or minor deficiencies are corrected by the candidate. The degree will not be awarded until confirmation that the corrections have been completed is received.
 - (c) Referral (see 14 below).
 - (d) Fail: the candidate has no further opportunity for submission.
14. If the thesis is not considered to be of sufficiently high standard to recommend the award of the degree but there is evidence of the potential of a successful DCLinDent submission, then on the recommendation of the examiners the candidate will be granted permission to resubmit the work in a revised form for the degree of DCLinDent within a period of eighteen months, on one occasion only and on payment of an additional fee.
15. The recommendation of the examiners is subject to confirmation by the Graduate Board's Examinations Group which will consider the examiners' report.
16. The Learning Outcomes for the degree of Doctor of Clinical Dentistry are published in a later section.

Course Failure

17. Candidates will normally be deemed to have failed the course and be asked to withdraw from the programme if:
- (i) they fail to meet the requirements for taught modular study namely: marks at or above 50% in all of the compulsory modules and accruing no less than 240 credits for the taught component overall.
 - (ii) they fail to satisfy the transfer assessment panel;
- or*
- (iii) they fail to satisfy the examiners in the research thesis.

Exit Points

18. Candidates who leave without completion of the research thesis element of the programme may, providing that they have satisfied the relevant regulations for the award of these qualifications:
- (i) elect to graduate with the Postgraduate Certificate;
 - (ii) elect to graduate with the Postgraduate Diploma;
 - (iii) transfer to registration for the degree of Master of Science in Clinical Dentistry (MSc)¹

¹ In the event that a transfer assessment panel does not recommend that a candidate be transferred to DCLinDent (see section 8) those candidates who have accrued sufficient credits but are not recommended for transfer to full degree registration (i.e. DCLinDent) may be permitted to complete Year 2 (full-time) or year 3 (part-time) and submit a dissertation that would form part of the requirements for the award of a Masters degree as an exit qualification after 24 months for full-time study and 36 months for part-time study.

Learning Outcomes / Transferable Key Skills / Learning Context / Assessment for the degree of DClInDent

1. Learning Outcomes

On completion of the programme students should have shown evidence of being able to:

- interpret and communicate knowledge through research and scholarship of publishable quality that would satisfy peer review
- present and defend research outcomes which extend the forefront of the discipline or area of clinical practice
- demonstrate a detailed knowledge of the subject area and expertise in generic and subject or professional skills
- be able to undertake decision-making in complex and unpredictable situations, including diagnosis and treatment planning (together with the limitations of treatment) and patient management.
- be able to underpin clinical practice with theoretical knowledge
- take a proactive and self-reflective role in working and develop professional relationships with others, particularly in relation to functioning within a multi-disciplinary team
- formulate ideas and hypotheses proactively and develop, implement and execute plans by which to evaluate these
- be able to articulate complex ideas and discuss them with peers and other professionals
- critically evaluate current issues, research and advanced scholarship
- understand relevant ethical and legal issues and be able to apply them in their research
- understand relevant health and safety issues
- demonstrate responsible working practice

2. Transferable (Key) Skills

Students will have had the opportunity to acquire the following abilities through the research training and research specified for the programme

- the skills necessary for a career as a researcher and/or for employment in a senior and leading capacity in a relevant area of professional/clinical practice or industry;
- evaluating their own achievement and that of others;
- self-direction and effective decision making in complex and unpredictable situations;
- independent learning and the ability to work in a way which ensures continuing professional development;

3. Learning Context

The learning context will include the critical analysis of, and decision making in, complex and unpredictable professional and/or clinical situations. The structure of the programme will provide research and/or professional training, breadth and depth of study and opportunities

for drawing upon appropriate resources and techniques. This will include clinical skills development. Opportunities will be provided for students to:

- develop to a high level interests and informed opinions
- develop to a high level their design and management of their learning activities
- develop to a high level their communication of their conclusions;
- make an original contribution to the field

Students will be expected to engage in the exercise of autonomous initiative in their study and work in professional environments.

4. Assessment

Achievement will be assessed by the examination of the candidate's thesis and performance under oral examination. During the course of the programme there will also be assessment of achievement by a variety of methods in accordance with the learning outcomes of any taught modules specified for the programme. Final assessment will involve the achievement of the candidate in:

- evidencing an ability to conduct original and independent broad and in-depth enquiry within the discipline or within different aspects of the area of professional/clinical practice normally leading to published work;
- drawing on and/or developing a range of research techniques and methodologies appropriate to enquiries into the discipline/area of professional practice;
- demonstrating independent critical ability in the application of breadth and depth of knowledge to complex issues within the discipline or specialist area of professional/clinical practice;
- drawing on a range of perspectives on the area of study;
- evaluating and criticising received opinion;
- making reasoned and well-informed judgements on complex issues within the specialism whilst understanding the limitations on judgements made in the absence of complete data
- the written style and overall presentation of the thesis.

Doctor of Health and Social Care

Programme of Study for the degree of Doctor of Health and Social Care

Admission

1. The following may be accepted as candidates for the Professional Doctorate in Health and Social Care:
 - Graduates of an approved university or equivalent institution with an upper second class honours degree or above in a subject relevant to the proposed research;
 - Candidates should also have relevant professional training in the area of the proposed research and experience of professional engagement with current practice development and innovation.
2. Where the applicant's first language is not English, applicants for admission to the programme leading to the award of the degree of Doctor of Health and Social Care must, before they can be admitted to the University, provide evidence that they have obtained the specified band score on one of the recognised English language qualifications as follows:
 - British Council IELTS – score of 6.5 overall, with no element less than 6.0;
 - Paper based TOEFL – score of 580 with 4.0 in the Test of Written English;
 - TOEFL iBT – overall score of 94 with the reading and speaking element no less than 23, listening element no less than 20 and the writing element no less than 24.
3. Students who have achieved master's level accreditation for study within an approved university or equivalent institution may apply for accreditation of up to a maximum of 60 credits in taught components of their DHSC programme.¹ All applications for such Accredited Prior Learning (APL) are considered on their merits and awards of credit transfer are made at the discretion of the DHSC Programme Management Group, in accordance with published guidelines for the degree, and subject to approval by the relevant University committee. The following will apply:
 - (a) applications should be made at the time of DHSC application and, in all cases, applications must be processed by the end of the first semester;
 - (b) for credit to be eligible for transfer it must have been awarded within five years prior to the commencement of DHSC registration;
 - (c) accredited prior learning may be granted only against the taught modules within the DHSC programme and may be granted only in so far as the prior learning relates to the applicant's proposed DHSC programme;
 - (d) accredited prior learning is not allowable, in any circumstances, against the DHSC thesis or the thesis preparation components;

¹ Candidates may apply for accreditation of up to a maximum of 90 taught credits in recognition of modules studied as part of another postgraduate programme in the School; claiming accreditation of a greater proportion of the programme would be considered on an "ad personam" basis.

(e) other arrangements deemed acceptable by the relevant University committee, in lieu of (a) – (d) above.

4. Candidates will in the first instance be accepted as a postgraduate research student for the degree of DHSC.
5. On entry every candidate will be allocated a supervisory team comprising a lead supervisor and co-supervisor(s).

Content of Programme of Study

6. Candidates will complete a total of 180 credits¹ of M level modules over the first 15 months (full-time study) or 3 years (part-time study).
7. The composition of taught modular courses will be as follows:
 - 15M credit compulsory module in transferable skills
 - 60M credits of compulsory modules in research methods
 - 15M credits of optional modules in research methods
 - 30M credits of compulsory modules in knowledge and skills in leadership
 - 30M credit compulsory module in working effectively within complex professional systems and practice
 - 30M credit compulsory dissertation/upgrade module

Progression

8. A successful transfer is dependent upon the candidate having passed (i.e. achieved a mark of 50% or above) all taught modules which have been delivered and examined up to the point of transfer.
9. By the end of the first 15 months of full-time study, and 30 months of part-time study, candidates will complete the assignment in the Dissertation/Upgrade module, which will form the basis of an assessment for transfer to the specific doctoral degree category of DHSC. An assessment panel will be established, in accordance with the University's Code of Practice for Research Degree Candidatures, to assess each candidate for transfer to full DHSC registration. All candidates will be interviewed by an assessment panel and this will take the form of a viva voce examination.
10. A candidate who is initially unsuccessful in the transfer assessment may be given, at the discretion of the assessment panel, one further opportunity for review normally within a period of three months (six months at the maximum).
11. A candidate will not be permitted to proceed to the final thesis preparation element of the programme without successfully passing the transfer process.

Examination and Assessment

12. The normal expectation is that candidates will successfully complete modular courses (i.e. passed assessed modules at 50% or above) and accruing no less than 180 credits for the taught components by the end of Year 2 for full-time study or by the end of Year 3 for part-time study.

¹ In the absence of Accredited Prior Learning (APL)

13. Candidates are required to submit a thesis for examination of up to 50,000 words in length in the area of their specialist field of study and satisfy the examiners as specified in Ordinance X and its associated Regulations.
14. Except with the special permission of the relevant committee, every candidate is required to submit his/her thesis for examination for the degree of Doctor of Health and Social Care by no later than:
 - (i) The end of the fourth year after his/her entry upon the approved course of full-time study and research; or
 - (ii) The end of the seventh year after his/her entry upon the approved course of part-time study and research.
15. Where the progress and quality of the candidate's research justify it, the relevant committee is empowered to reduce the required minimum period of study, as specified in Article 5 of Ordinance X provided that no candidate shall submit for examination before the completion of:
 - (i) A total of two calendar years of full-time study; or
 - (ii) A total of three years of part-time study.
16. Following examination, the examiners will be asked to make one of the following recommendations.
 - a. Pass.
 - b. Pass (subject to the correction of 'minor editorial corrections' or 'stated minor deficiencies'): these corrections must be made within four or twelve weeks respectively from the date of the oral examination. The internal examiner is responsible for ensuring that minor errors or minor deficiencies are corrected by the candidate. The degree will not be awarded until confirmation that the corrections have been completed is received.
 - c. Referral (see 17 below)
 - d. Fail: the candidate has no further opportunity for submission.
17. If the thesis is not considered to be of sufficiently high standard to recommend the award of the degree but there is evidence of a potential successful DHSC submission, then on the recommendation of the examiners the candidate will be granted permission to resubmit the work in a revised form for the degree of DHSC within a period of eighteen months, on one occasion only and on payment of an additional fee.
18. The recommendation of the examiners is subject to confirmation by the Graduate Board's Examinations Group which will consider the examiners' report.

Course Failure

19. Candidates will normally be deemed to have failed the course and be asked to withdraw from the programme if:
 - (i) they fail to meet the requirements for taught modular study namely: marks at or above 50% for all credit-bearing modules; or
 - (ii) they fail to satisfy the transfer assessment panel; or

(iii) they fail to satisfy the examiners in the research thesis.

Exit Points

20. Candidates who leave without completion of the research thesis element of the programme may, providing that they have satisfied the relevant regulations for the award of these qualifications:

- (i) elect to graduate with the Postgraduate Diploma in Health and Social Care;
- (ii) elect to graduate with the degree of Master of Science in Health and Social Care.

Learning Outcomes / Transferable Key Skills / Learning Context / Assessment for the degree of DHSC

1. Learning Outcomes

On completion of the research programme students should have shown evidence of being able:

- to discover, interpret and communicate new knowledge through original research of publishable quality in Health and Social Care professional practice and/or its facilitation which satisfies peer review;
- demonstrate systematic knowledge of and the ability to critically assess, analyse and engage with the ethical and legal Health and Social Care context of their research and any ethical and legal implications of their research;
- to present and defend research outcomes which extend the forefront of practice and/or policy-making in a Health and Social Care discipline or profession or relevant area of professional/clinical practice;
- to demonstrate systematic and extensive knowledge of the subject area and expertise in generic and subject/professional skills;
- to take a proactive and self-reflective role in working and to develop professional relationships with others where appropriate;
- to independently and proactively formulate ideas and hypotheses and to design, develop, implement and execute plans by which to evaluate these;
- to critically and creatively evaluate current issues, research and advanced scholarship in Health and Social Care professions practice and/or formulating/informing future policy.

2. Transferable (Key) Skills

Students will have had the opportunity to acquire the following abilities through the research training and research specified for the programme

- the skills necessary for a career as a researcher and/or for employment in a senior and leading capacity in a relevant area of professional/clinical practice or industry;
- evaluating their own achievement and that of others;
- self-direction and effective decision making in complex and unpredictable situations;
- independent learning and the ability to work in a way which ensures continuing professional development;

3. Learning Context

The learning context will include the critical analysis of, and decision making in, complex and unpredictable professional situations. The structure of the programme will provide research and/or professional training, breadth and depth of study and opportunities for drawing upon appropriate resources and techniques. Opportunities will be provided for students to:

- develop to a high level interests and informed opinions
- develop to a high level their design and management of their learning activities
- develop to a high level their communication of their conclusions;
- make an original contribution to the field

Students will be expected to engage in the exercise of autonomous initiative in their study and work in professional environments.

4. Assessment

Achievement will be assessed by the examination of the candidate's thesis and performance under oral examination. During the course of the programme this will also include the assessment of achievement by a variety of methods in accordance with the learning outcomes of any taught modules specified for the programme. Final assessment will involve the achievement of the candidate in:

- evidencing an ability to conduct original and independent broad and in-depth enquiry within the discipline or within different aspects of the area of professional practice normally leading to published work;
- drawing on and/or developing a range of research techniques and methodologies appropriate to enquiries into the discipline/area of professional practice;
- demonstrating independent critical ability in the application of breadth and depth of knowledge to complex issues within the discipline or specialist area of professional/clinical practice;
- drawing on a range of perspectives on the area of study;
- evaluating and criticising received opinion;
- making reasoned and well-informed judgements on complex issues within the specialism whilst understanding the limitations on judgements made in the absence of complete data
- the written style and overall presentation of the thesis.

Master of Philosophy

Programme of Study for the degree of Master of Philosophy

1. Candidates may undertake study for the degree of MPhil in any Faculty of the University or accredited College, under supervision arrangements specified in Ordinance X and its associated Regulations.
2. The other requirements for the degree, including periods of study and examination requirements are set out in Ordinance X and its associated regulations.
3. Admission of candidates in the Faculties of Arts, Performance, Visual Arts and Communications, Business, Education, Social Sciences and Law:

Graduates of an approved university or institution, or persons whose qualifications by study in an approved institution have been accepted by the Senate as equivalent to or in lieu of a degree, may be accepted as candidates for the degree of Master of Philosophy provided that, with the approval of the relevant committee,

- (a) applicants who wish to proceed to the degree in a subject not studied as a substantial part of their first degree level work may be required, before an acceptance as candidates, to reach a satisfactory standard in a preliminary examination on that subject, and
 - (b) applicants who have not reached the honours standard in a first degree examination may be required, not less than one year after the date of their acceptance, to pass a qualifying examination in a subject prescribed by the relevant committee.
4. Admission of candidates in the Faculties of Biological Sciences, Environment, Mathematics and Physical Sciences, Engineering and Medicine and Health:
The following may be accepted as candidates for the degree of Master of Philosophy:
 - (a) graduates of an approved university,
or
 - (b) persons who have been awarded an approved diploma in applied science of this University in a subject regarded by the relevant committee as an appropriate preparation for the proposed research,
or
 - (c) persons whose qualifications by study in an approved institution have been accepted by the relevant committee as equivalent to or in lieu of a degree.

Progress and Monitoring

5. Candidates accepted directly to the degree of Master of Philosophy are not required to undergo formal assessment for transfer to a definite degree category. The arrangements for formal reports on progress by the supervisor(s) are described in the University Code of Practice for Research Degree Candidatures which is published in the Research Student Handbook.

Supervision

6. A supervisor(s) will be appointed for each student at the commencement of the candidature.

Examination and Assessment

7. Candidates must present a thesis¹ (60,000 words maximum) on the subject of his/her research and satisfy the examiners as specified in Ordinance X and its associated Regulations.
8. Except with the special permission of the relevant committee, every candidate is required to submit his/her thesis for examination for the degree of Master of Philosophy by no later than:
 - (i) the end of the third year after his/her entry upon the approved course of full-time study and research; or
 - (ii) the end of the sixth year after his/her entry upon the approved course of part-time study and research.
9. Where the progress and quality of the candidate's research justify it, the relevant committee is empowered to reduce the required minimum period of study, as specified in Article 5 of Ordinance X provided that no candidate shall submit for examination before the completion of:
 - (i) a total of one calendar year of full-time study;
 - (ii) a total of two calendar years of part-time study.
10. Following examination, the examiners will be asked to make one of the following recommendations
 - (a) Pass with distinction
 - (b) Pass
 - (c) Pass (subject to the correction of 'minor editorial corrections' or 'stated minor deficiencies'): these corrections must be made within four or twelve weeks respectively from the date of the oral examination. The internal examiner is responsible for ensuring that minor errors or minor deficiencies are corrected by the candidate. A degree may not be awarded until confirmation is received that the corrections have been completed.
 - (d) Referral (see 11 below)
 - (e) Fail: the candidate has no further opportunity for submission for the degree.
11. If the thesis is not considered to be of sufficiently high standard to recommend the award of the degree but there is evidence of the potential of a successful MPhil submission, then on the recommendation of the examiners the candidate will be granted permission

¹ Except where an alternative method of submission is stipulated in the regulations for Ordinance X. In Schools where an alternative form of submission is permitted, specific regulations for the binding and presentation of the work are published.

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to resubmit the work in a revised form for the degree of Master of Philosophy within a period of fifteen months, on one occasion only and on payment of an additional fee.

12. The recommendation of the examiners is subject to confirmation by the Graduate Board's Examinations Group which will consider the examiners' report.
13. The Learning Outcomes for the degree of Master of Philosophy are published below.

Learning Outcomes / Transferable Key Skills / Learning Context / Assessment for the degree of MPhil

1. Learning Outcomes

On completion of the research programme students should have shown evidence of being able:

- to interpret and communicate knowledge in their discipline through originality in their application of knowledge and a practical understanding of established techniques of research;
- to present and defend research outcomes much of which is at, or informed by, the forefront of a discipline or area of professional/clinical practice;
- to demonstrate a comprehensive knowledge of the subject area and expertise in generic and subject/professional skills;
- to take a proactive and self-reflective role in working and to develop professional relationships with others where appropriate;
- to convey ideas and hypotheses proactively and to design, develop, implement and execute plans by which to evaluate these;
- to critically evaluate current issues, research and advanced scholarship in the discipline;
- to demonstrate knowledge of and be able to critically assess, analyse and engage with the ethical and legal context of their research and any ethical and legal implications of their research.

2. Transferable (key) skills

Students will have had the opportunity to acquire the following abilities through the research training and research specified for the programme

- the skills necessary to undertake research at a higher level, for a future career as a researcher and/or for employment in a higher capacity in industry or area of professional/clinical practice;
- evaluating their own achievement and that of others;
- self-direction and effective decision making in complex and unpredictable situations;
- independent learning and the ability to work in a way which ensures continuing professional development.

3. Learning Context

For *MPhil* students the learning context will include the critical analysis of, and decision making in, complex and unpredictable situations. The structure of the programme will provide research training, breadth and/or depth of study and opportunities for drawing upon

appropriate resources and techniques. Opportunities will be provided for students to develop:

- interests and informed opinions
- their involvement in the design and management of their learning activities
- their communication of their conclusions;
- their ability to undertake critical analysis

Students will be expected to progress to fully autonomous study and work.

4. Assessment

Achievement will be assessed by the examination of the candidate's thesis¹ and performance under oral examination and will involve the achievement of the candidate in:

- evidencing an ability to conduct independent broad and/or in-depth enquiry within different aspects of the discipline which leads to the production of material at a level suitable for publication;
- drawing on, and selecting appropriately from, a range of research techniques and methodologies in their enquiries into the discipline;
- demonstrating the ability to apply breadth and/or depth of knowledge to a complex specialist area;
- drawing on a range of perspectives on an area of study;
- evaluating and criticising received opinion;
- making reasoned judgements whilst understanding the limitations on judgements made in the absence of complete data
- the written style and overall presentation of the thesis.

¹ or alternative form of thesis as prescribed under regulation 36.

Master by Research

Programme of study for the degrees of Master by Research

1. Candidates may undertake study for the degree of Master by Research in one of the following categories:

Master of Arts by Research	MA
Master of Education by Research	MEd
Master of Science by Research	MSc
Master of Science (Engineering) by Research	MSc(Eng)
2. Submission of theses for the degrees of MA, MEd, MSc and MSc(Eng) by research should normally take place within 12 months of full-time or 24 months of part-time study (see also 10 & 11 below).
3. Due to the particular nature of the MA, MEd, MSc and MSc(Eng) by research and the requirements for completion within the specified time periods applicants for admission should normally have at least an upper second class honours degree or previous research experience.
4. The research project for candidates for the degrees of MA, MEd, MSc and MSc(Eng) by research must be clearly designed and planned at the time of application to enable submission within the limited time available. The proposed project must be submitted for approval by the relevant committee prior to acceptance of any applicant.

Progress and Monitoring

5. Candidates accepted directly to the degrees of MA, MEd, MSc and MSc(Eng) are not required to undergo formal assessment for transfer to a definite degree category. However, there should be regular reports by the supervisor on the student's progress. As a minimum, there should be a report at the mid-point of the first year and, in the case of part-time candidates, the end of the first year and at least annually thereafter.
6. Candidates accepted directly to one of the Masters degrees by research are not normally permitted to transfer registration to either the degree of PhD or MPhil.

Supervision

7. A supervisor(s) will be appointed for each student at the commencement of the candidature.

Examination and Assessment

8. Candidates for one of the Masters degrees by research must present a thesis (30,000 words maximum) on the subject of his/her research which must contain matter at a level suitable for publication and must satisfy the examiners as specified in Ordinance X and its associated Regulations.
9. In the case of the degrees of Master of Education, Master of Science and Master of Science (Engineering) the language of the thesis shall be English. In the case of the degree of Master of Arts, in the area of modern languages, the language of the thesis shall normally be English, although, if the particular subject so demands, the relevant

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committee may be prepared to give permission at the time of the applicant's acceptance as a candidate for the MA degree by research for a thesis to be submitted in a language other than English.

10. Candidates for the degrees of MA, MEd, MSc and MSc(Eng) by supervised research will normally not be permitted to submit their thesis for examination before completion of either one calendar year of full-time study or two calendar years of part-time study.
11. For the degrees of MA, MEd, MSc and MSc(Eng) the last date for the submission of the thesis shall normally be at the end of the prescribed period of research, as described under 2 above. In exceptional circumstances this may be extended by not more than three months by prior permission of the relevant committee.
12. Following examination, the examiners will be asked to make one of the following recommendations
 - (a) Pass with distinction
 - (b) Pass
 - (c) Pass (subject to the correction of 'minor editorial corrections' or 'stated minor deficiencies'): these corrections must be made within four or twelve weeks respectively from the date of the oral examination. The internal examiner is responsible for ensuring that minor errors or minor deficiencies are corrected by the candidate. The degree will not be awarded until confirmation that the corrections have been completed is received
 - (d) Referral (see 13 below)
 - (e) Fail: the candidate has no further opportunity for submission for the degree.
13. If the thesis is not considered to be of sufficiently high standard to recommend the award of the degree but there is evidence of the potential of a successful Mastership by research submission, then on the recommendation of the examiners the candidate will be granted permission to resubmit the work in a revised form for the degree of Master by research within a period of nine months, on one occasion only and on payment of an additional fee.
14. The recommendation of the examiners is subject to confirmation by the Graduate Board's Examinations Group which will consider the examiners' report.
15. The Learning Outcomes for the Masters degrees by research are published below.

Learning Outcomes / Transferable Key Skills / Learning Context / Assessment for the degree of Master by Research

1. Learning Outcomes

On completion of the programme students should have shown evidence of being able:

- to interpret and communicate knowledge in their discipline through originality in their application of knowledge and a practical understanding of established techniques of research;

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- to present and defend research outcomes much of which is at, or informed by, the forefront of a discipline or area of professional/clinical practice;
- to demonstrate a detailed knowledge of the subject area and expertise in generic and subject/professional skills;
- to take a proactive and self-reflective role in working and to develop professional relationships with others where appropriate;
- convey ideas and hypotheses proactively and to develop, implement and execute plans by which to evaluate these;
- to critically evaluate current issues, research and advanced scholarship in the discipline;
- to demonstrate knowledge of and be able to assess, analyse and engage with the ethical and legal context of their research and any ethical and legal implications of their research.

2. Transferable (key) skills

Students will have had the opportunity to acquire the following abilities through the research training and research specified for the programme

- the skills necessary to undertake research at a higher level, for a future career as a researcher and/or for employment in a higher capacity in industry or area of professional/clinical practice;
- evaluating their own achievement and that of others;
- self-direction and effective decision making in complex and unpredictable situations;
- independent learning and the ability to work in a way which ensures continuing professional development.

3. Learning Context

For Master (MA, MEd, MSc and MSc[Eng]) by Research) the learning context will include the analysis of, and decision making in, complex and unpredictable situations. The structure of the programme will provide research training, depth of study and opportunities for drawing upon appropriate resources and techniques. In the case of MDS this may also include clinical skills development. Opportunities will be provided for students to develop:

- interests and informed opinions
- their involvement in the design and management of their learning activities
- their communication of their conclusions;
- Students will be expected to progress to fully autonomous study and work.

4. Assessment

Achievement will be assessed by the examination of the candidate's thesis and performance under oral examination. It will involve the achievement of the candidate in:

- evidencing an ability to conduct independent in-depth enquiry within a significant aspect or different aspects of the discipline or area of clinical/professional practice which leads to the production of material at a level suitable for publication;

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- drawing on, and selecting appropriately from, a range of research techniques and methodologies in their enquiries into the discipline or area of clinical/professional practice;
- demonstrating the ability to apply breadth and/or depth of knowledge to a complex specialist area;
- drawing on a range of perspectives on an area of study;
- evaluating and criticising received opinion;
- making reasoned judgements whilst understanding the limitations on judgements made in the absence of complete data;
- the written style and overall presentation of the thesis