Faculty of Health Sciences

This section contains course specific regulations for each postgraduate course within the Faculty of Health Sciences.

School of Medicine

Pg Diploma in PHHSR

1. Introduction: This Postgraduate Diploma in Population Health and Health Services Research is jointly offered by the Royal College of Surgeons in Ireland, Trinity College Dublin, the University of Dublin, and the University College Cork as an online part-time course that will enable a broad range of early and mid-career health researchers, clinicians, allied health professionals and those working in the public and health policy sectors generally to upgrade their population health and health services research skills in the service of better health outcomes for all.

2. Admission Requirements:

Applicants will be required to hold a National Qualifications Framework Level 8 primary degree qualification (or equivalent) in health, social science, statistics, economics or related discipline. Applicants holding a cognate Masters Degree may also qualify for admission. Students whose first language is not English will need a recognised English language qualification in line with the requirements as specified in the Postgraduate Calendar Part 3 Section 1.5 Language of Instruction in Trinity, which concurs with the requirements in RCSI and UCC. In exceptional circumstances, applicants without a primary degree of a sufficient level may be recommended for entry to the programme following a review of their individual qualifications and experience by the Joint Course Committee (Board of Studies). Admission of such applicants will be subject to the approval of the Graduate Studies Committee.

Applications for admission to the course will be made through the online systems in each of the three collaborating “home” institutions, no later than 30 June of 2017. Late applications will be considered provided places are still available. Successful applicants register only with the “home” institution by which they have been accepted to the course and where they pay their fee.

3. Duration: This course can be taken full-time (6 modules in one year) or part-time (6 modules over two years). The course commences in September and completes in April in the following year if taken as a full-time option. If taken as a part-time option, the course will run over two academic cycles consisting of six core modules (3 per year) from September to April.
4. Modules and European Credit Transfer System: The Postgraduate Diploma (Level 9) carries 60 ECTS

Modules:

a) Perspectives on Population Health and Health Services Research 10 ECTS
b) Applied Research Methods 10 ECTS
c) Health Systems, Policy and Management 10 ECTS
d) Systematic Reviewing and Protocol Development 10 ECTS
e) Working with Health Information and Data 10 ECTS
f) Health Economics 10 ECTS

5. Assessment: For each module, 70% of the marks will be awarded for summative assessment in the form of a final assignment set by the Module Lead. Assignments will be set, submitted and marked through the virtual learning environment and students will receive feedback through their online profile. Formative assessment will account for 30% of the overall module mark. Of this, 20% will be awarded for topic reflection assignments and 10% for overall engagement with the online material. Engagement will be measured through activity completion tracking in the virtual learning environment. Module Leads will designate which activities are to be included - e.g.: discussion activities, readings, online lecture material, group work etc. The only exception to this is Module 5 where summative assessment will comprise of two assignments at 40% each (80% overall) and formative assessment will account for the remaining 20% of the module mark (10% for topic reflections, 10% for engagement).

The pass mark in every module and assignment component is 50%. All submitted assessments are subject to the established policies against plagiarism in each of the three institutions.

To qualify for the joint award of the Postgraduate Diploma, students must:

1. obtain credit for the academic year of the course by satisfactory online attendance at lectures and tutorials, by carrying out the required course work, and by successful completion of designated assignments.
2. achieve an overall pass mark which is the credit-weighted average mark for all modules taken, and
3. achieve a pass mark in all modules designated non-compensatable.

In order to qualify for the joint award of Postgraduate Diploma with Distinction (RCSI and Trinity) /First Class Honours (in UCC) students must, in addition to the above:

4. achieve an overall credit-weighted average mark of at least 70% across all modules.

The award of this collaborative course is leading to a single joint postgraduate diploma award as outlined in the Collaborative Framework Agreement for the RCSI, Trinity and UCC (Appendix 2; Section 6 (4)): “Students who have satisfied all the relevant academic course requirements shall be awarded
a joint award by their “home” institution. The single joint award parchment will be presented in line with the protocol of each “home” institution, and will include the crests of the three institutions, as well as the crest of the NUI as RCSI’s and UCC’s awarding partner, and will bear the signatures of three agreed signatories representing each of the partner institution of the joint course.”

6. Lead Course Director: Dr Sarah Barry, Trinity

7. Local Course Directors: Dr Margaret Curtin, UCC; Mr Carlos Bruen, RCSI

**Advanced Radiation Therapy Practice (online delivery)**

*(P.Grad.Cert./P.Grad.Dip./M.Sc.)*

**Aim:** The aim of this programme is to enable Radiation Therapists to develop their skills set, through learning and research, in order to work at an advanced level within the radiotherapy department and/or the radiotherapy treatment planning area.

**Duration:** The entry to the programme is via a One Year Postgraduate Certificate or a One Year Postgraduate Diploma (both as a top up to the Postgraduate Certificate or as a direct entry) only then followed by a One Year Master’s course as a top up to the Postgraduate Diploma.

**Admission Requirements:** Applicants for the P.Grad.Cert. or P.Grad Dip. are required

- to normally hold an honours primary degree in Radiation Therapy, Medical Physics, Medicine or a related discipline; or they should otherwise satisfy the selection panel that they have the ability to complete and benefit from the course.
- to be working in an area of radiation oncology for the duration of the course with access to radiation therapy planning or virtual simulation software.

**Location:** The course is taught by the Discipline of Radiation Therapy using a fully online approach through the College Virtual Learning Environment, Blackboard Learn and Blackboard Collaborate.

**Course Structure:** The P.Grad.Cert. has two strands; Clinical Practice and Treatment Planning which applicants choose to apply for. The strands share two modules:

- Imaging for Advanced Radiation Therapy Practice
- Delineation for Radiation Therapy Planning.

Advances in Radiation Therapy Practice module is also mandatory for Clinical Practice
– Specialist Radiation Therapy Technique module is also mandatory for Treatment Planning Strand.

The P.Grad.Dip. has the same two Strands, Clinical Practice and Treatment Planning, which applicants choose to apply for or continue on after completing the postgraduate certificate. The strands share one Research Methods module. The P.Grad.Dip.Clinical Practice Strand has two additional modules: the Health Services Management and Radiobiological Principles and Practice while the P.Grad.Dip. Treatment Planning Strand has Advanced 3D Treatment Planning and Evaluation and Treatment Planning for Modulated Techniques modules.

All taught modules are mandatory and each is worth 10 ECTS credits.

Master's Top up year: Students who have passed the Postgraduate Diploma will have an option to compete an M.Sc. dissertation (30 ECTS) over an additional Master's Top up year.

Assessment: Entry to the online programme, which may ultimately lead to an M.Sc. award is via a Postgraduate Certificate or a Postgraduate Diploma. Students may register on the P.Grad.Cert or P.Grad.Dip. programme. Having successfully completed the Postgraduate Diploma students can opt to complete the M.Sc. dissertation module (30ECTS) in an additional year. The pass mark for each award and each module is 50%.

To qualify for the award of the P.Grad.Cert. students must, as a minimum:

• achieve an overall pass mark (50%) which is the credit-weighted average mark for all modules taken and
• achieve a pass mark (50%) in all modules (there are no compensatable modules in this programme), and
• pass taught modules amounting to 30 credits

To qualify for the award of the P.Grad.Dip. students must, as a minimum:

• achieve an overall pass mark (50%) which is the credit-weighted average mark for all modules taken and
• achieve a pass mark (50%) in all modules (there are no compensatable modules in this programme), and
• pass modules amounting to 60 credits
• Students failing to pass a module, may present for supplemental examination or re-submit required work during the College supplemental period. The mark awarded at re-assessment are capped at the pass mark (50%) for the failed assessment component. Students who, following the supplemental examination or re-assessment, have failed to pass the module(s) will be deemed to have failed overall, and may apply to repeat the course.

To qualify for the award of P.Grad.Dip. with Distinction students must, in addition to above either

• achieve an overall credit-weighted average mark of at least 70% across all modules or,
• achieve at least 68% in the overall credit-weighted average mark and achieve a minimum
mark of 70% in individual modules which together amount to at least half of the required credits for the award of the Postgraduate Diploma associated with the student's registered course.

**To qualify for the award of the Master's degree students must**, as a minimum:

- have successfully completed the P.Grad. Dip. as stipulated above, and
- achieve a pass mark in the research dissertation.
- Students who do not achieve a pass mark in the research dissertation, will be deemed to have failed overall. Such students may apply to repeat the year or may be awarded the associated Postgraduate Diploma.

**To qualify for the award of Master's with Distinction** students must as a minimum:

- achieve a final overall mark of at least 70% in the dissertation.
- A distinction cannot be awarded if a candidate has failed any credit during the period of study.

**Progression within the online programme:**

**On successful completion of the P.Grad.Cert. in Advanced Radiation Therapy** the student may exit with the postgraduate certificate, or progress administratively (on the basis of a published result) the following academic year to the Top-up P.Grad.Dip. in Advanced Radiation Therapy of the chosen strand (in choosing this option the student is not awarded the postgraduate certificate), or exit with the postgraduate certificate and within a five year period apply online for the top-up P.Grad.Dip. in in Advanced Radiation Therapy and rescind the postgraduate certificate.

**On successful completion of the P.Grad.Dip. in Advanced Radiation Therapy** the student may exit with the postgraduate diploma, or progress administratively (on the basis of a published result) the following academic year to the Top-up Master's in Advanced Radiation Therapy of the chosen strand (in choosing this option the student is not awarded the postgraduate diploma), or exit with the postgraduate diploma and within a five year period apply online for the top-up Master's in Advanced Radiation Therapy and rescind the postgraduate diploma. The award of M.Sc. (Studia) is the standard degree award for taught Master's courses.

**Rescinding the P.Grad.Cert. award:** Students who have opted to receive a P.Grad.Cert. may apply to submit subsequently for the corresponding P.Grad.Dip. Following completion of the P.Grad.Dip. requirements the student will inform the Registrar of his/her intention to rescind the P.Grad.Cert. and have the credit obtained during the P.Grad.Cert. integrated into the P.Grad. Dip. The student will be required to submit the original P.Grad.Cert. and/or any duplicates that have been issued. The time limit for applying to complete the credits required for the P.Grad.Dip. will normally be up to 5 years following completion of the P.Grad.Cert. In exceptional circumstances, a longer time limit may be considered by the Dean of Graduate Studies. This arrangement is not available to students who exit with the P.Grad.Cert. as a consequence of failing to attain the pass requirements of the P.Grad.Dip.

**Rescinding the P.Grad.Dip. award:** Students who have opted to receive a P.Grad.Dip. may apply to submit subsequently for the corresponding Master's degree. Following completion of the Master's requirements the student will inform the Registrar of his/her intention to rescind the P.Grad.Dip. and have the credit obtained during the P.Grad.Dip.
integrated into the Master’s degree. The student will be required to submit the original P.Grad.Dip. and/or any duplicates that have been issued. The time limit for applying to complete the credits required for the Master’s degree will normally be up to 5 years following completion of the P.Grad.Dip. In exceptional circumstances, a longer time limit may be considered by the Dean of Graduate Studies. This arrangement is not available to students who exit with the P.Grad.Dip. as a consequence of failing to attain the pass requirements of the Master’s.

Course Director: Associate Professor Michelle Leech

Course Co-ordinator: Assistant Professor Laura Mullaney

Advanced Radiotherapy Practice (M.Sc./P.Grad.Dip.)

1. Aims: The aim of this course is to enable Radiation Therapists to build on their current skills set, through learning and research, in order to work at an advanced level within the radiotherapy department and/or the radiotherapy treatment planning area.

2. Duration: The course is offered on a two years part-time basis.

3. Admission Requirements: Applications will be accepted from those who:

   Hold an honors Bachelor degree (or equivalent qualification) in Radiation Therapy or Medical Physics. Have confirmed access to a treatment planning department. Candidates cannot be accepted onto the course unless they have access organised at the time of application. Otherwise satisfy the course admission committee that they have the ability to complete and benefit from the course.

4. Location: The course is taught using a blended learning approach of face to face teaching in the Discipline of Radiation Therapy, Trinity Centre for Health Sciences, St James’s Hospital and online components using the College Virtual Learning Environment (VLE).

5. Course Structure: The modules on the clinical practice strand are:

Strand content of Advanced Radiotherapy Practice –

- Research Methodology and Statistics (10 ECTS) (shared with Radiation Therapy Treatment Planning)
- Imaging: Physical Properties, Clinical Application and Radiological Anatomy (10 ECTS) (shared with Radiation Therapy Treatment Planning)
- Healthcare Management (10 ECTS)
- Radiobiology (10 ECTS)
- Contouring for Radiation Therapy Treatment Planning (10 ECTS) (shared with Radiation Therapy Treatment Planning)
- Evidence-based Radiation Therapy Practice (10 ECTS)
- Research Dissertation (30 ECTS) (shared with Radiation Therapy Treatment Planning)

Strand content of Radiation Therapy Treatment Planning –

- Research Methodology and Statistics (10 ECTS) (shared with Advanced Radiotherapy Practice)
- Imaging: Physical Properties, Clinical Application and Radiological Anatomy (10ECTS) (shared with Advanced Radiotherapy Practice)
- 3D Conformal Treatment Planning (10 ECTS) –
- Contouring for Radiation Therapy Treatment Planning (10 ECTS) (shared with Advanced Radiotherapy Practice)
- IMRT Treatment Planning (10 ECTS)
- Treatment Planning for Specialist Techniques (10 ECTS) –
- Research Dissertation (30 ECTS) (shared with Advanced Radiotherapy Practice)

6. **Dissertation:** Students will be required to complete a research dissertation of approximately 12,000 words. Each student will be assigned a supervisor with whom they will meet at regular intervals. The student will be required to submit a research proposal and an ethics application prior to commencing the data collection. At the end of this module the student will present their research findings in a dissertation format and paper format. The dissertation will follow the following format: Literature review, Research Methodology, Results, Discussion. The student will also submit a report of the research in a paper format of no more than 3,500 words.

7. **Assessment:** The pass mark for this course is 50% and all modules are assessed on a pass/fail/distinction basis only. Students must achieve 50% in each module, including the dissertation, of the course to fulfil criteria for the award of the M.Sc. in Advanced Radiotherapy Practice and Radiation Therapy Treatment Planning. The overall mark for the
course is based on the credit-weighted average of the mark awarded for each module, including the research dissertation. Compensation is not permitted between modules. In order to qualify for the award of the M.Sc. in Advanced Radiotherapy Practice/ Radiation Therapy Treatment Planning with distinction students must as a minimum achieve a final overall average mark for the course of at least 70% and a mark of at least 70% in the dissertation.

Students may re-submit failed work or re-sit failed examinations; the marks awarded at re-assessment are capped at the pass mark (50%). Students who, following the supplemental examinations or re-assessment, have failed to pass taught modules will be deemed to have failed overall, and may apply to repeat the course.

Students who have passed taught modules but who do not achieve a pass mark in the research dissertation, will be deemed to have failed overall. Such students may apply to repeat the year or may be awarded the associated Postgraduate Diploma. Students are required to successfully accumulate 60 ECTS credits in Year One to rise with his/her class to Year Two

Students who have successfully achieved an overall pass mark which is the credit-weighted average mark for all modules taken and accumulated 60 ECTS credits but who do not wish to proceed to the dissertation stage will be considered for a Postgraduate Diploma (exit award). Students who have achieved an overall credit-weighted average of at least 70% across all modules will be eligible for consideration for the award of Postgraduate Diploma with Distinction. Graduates with a Postgraduate Diploma may not subsequently register for the course to attempt to complete it for an award of the Masters degree.

8. **Course Director:** Michelle Leech

   **Course Co-ordinator:** Laura Mullaney

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**Biological Psychiatry (M.Sc./P.Grad.Dip)**

1. **Introduction:** This multidisciplinary Masters course in Biological Psychiatry explores the relationship between basic principles, biological factors (e.g. genes, neurodevelopment, brain structure and function, cognition) and clinical features in mental health disorders, allowing students to translate scientific understanding into effective clinical practice. Neuropsychiatric disorders are common with one in four of the world’s population suffering from various forms of mental, behavioural and neurological disorders. According to the World Health Organisation, mental disorders account altogether for about 13.5% of the global burden of disease. This course is aimed primarily at graduates with a background in psychiatry (or related health care disciplines), psychology, biological or social sciences, who wish to develop their research skills and broaden their research interests. The course will aid in equipping participants with the skills to progress into a career in psychiatry and psychiatric research or to embark on a doctoral programme.
2. **Admission Requirements:** Applications are invited from individuals with a primary degree in medicine or other allied health discipline, e.g. psychology, biological sciences and pharmaceutical science. Those with a science degree should have achieved at least a second class, first division honors degree or its equivalent. Candidates may be interviewed to establish their suitability for the course at the discretion of the Course Director.

3. **Duration:** This course is offered on an apart-time basis over two years.

4. **Course Structure:** Students are required to take a total of six modules over four semesters and complete a research dissertation of about 15,000 words on an approved theme in the second year. The modules carry the following ECTS credits:

   - **Module A:** Statistics and Research Methodology (10 credits)
   - **Module B:** Clinical Neuropsychology and Cognitive Genomics (10 credits)
   - **Module C:** Neuroimaging and Biomarkers (10 credits)
   - **Module D:** Molecular Neuroscience (10 credits)
   - **Module E:** Neuropsychiatric Genetics (10 credits)
   - **Module F:** Molecular Psychiatry (10 credits)
   - **Module G:** Research Dissertation (30 credits)

   The School of Medicine reserves the right to vary the above list and, in particular, the right to withdraw and replace modules. The M.Sc. carries 90 credits, and the exit award of P.Grad.Dip. carries 60 credits.

5. **Assessment procedure:** Assessments will be based on a combination of formative assessment for each module, based upon in-module coursework and summative end-of-module written examination. All course work will be double marked. In terms of weighting, all modules, including the dissertation, are weighted according to their ECTS credit value. Accordingly, 66% of the final course mark will be allotted to assessments of Modules A-F and the remaining 34% will be allotted to the Dissertation and research project (Module G) to be developed and completed within the second year.
A 50% pass mark applies for each of the formative assessments, and also for the dissertation. Each module must be passed independently and all practice assessments must be passed without compensation.

In cases where students fail to achieve 45% in a written assignment, a re-submission will be permitted with a deadline for re-submission of two weeks from the publication of the initial results. Only one re-submission will be allowed, and the maximum mark awarded for the resubmitted assignment is 50%.

Obtaining 50% of the available marks in each of the three assessment types (i.e. in-course written work, in-course presentations, end of module written exam) is required to pass each of the taught modules. Students who fail a single teaching module in either their first or second year may compensate from marks (%) awarded for the other teaching modules in that year up to a total of 5%. If unable to compensate, supplemental exams (September sittings) will be available for those who fail one or two teaching modules in their first or second year. Students who fail a module on the second attempt or who fail three modules in their first or second year will fail the whole course and exit the course.

In the second year of the MSc course students will undertake a project, the design and planning for which will begin at the beginning of that year. A literature review and description of proposed research methods (5,000 words) will be submitted by the end of Michaelmas Term in the second year. Depending upon the nature of the project, students will be based in a TCD lab or research department while completing their projects. Students will be given support from an assigned project supervisor from Trinity, drawn from the staff of the Department of Psychiatry (School of Medicine), Institute of Molecular Medicine or Trinity College Institute of Neuroscience. Types of projects available include genetic association, neuroimaging, neuropsychology and clinical/molecular biomarker studies on neuropsychiatric disorders. During the project time students will participate in regular feedback sessions with their project supervisor. Students will have an opportunity to present project protocols throughout their second year before beginning the research work. The project dissertation (10,000 – 15,000 words) will be submitted by the end of August of the second year in the style of the journal Biological Psychiatry. Each dissertation will be graded by two independent markers and may be moderated by the external examiner. A grade of 50% or more will be required to pass (no compensation is allowed).

6. **Progression:** All students register on the M.Sc. programme. Students must successfully pass all the requirements of the first year of the programme to progress to the second year.

The Court of Examiners will meet at the end of year 1 to moderate examination marks on the taught modules of the course.

A Masters dissertation will be submitted and examined in line with the General Regulations for Taught Graduate Courses stated in Part B (Section 3) of the University of Dublin Calendar Part 2 for Graduate Studies and Higher Degrees for a given year.

The award of a Masters with Distinction shall require the achievement of a distinction for the dissertation, and an average of at least 70% of the available marks in all taught modules. A
Distinction cannot be awarded if a candidate has failed any module during the period of study.

Students who have successfully passed the six taught modules of the course and accumulated 60 credits but who do not wish to proceed to the dissertation stage, or if they have submitted but then failed the dissertation, will be considered for a Postgraduate Diploma (exit award). Students who, in addition, have achieved an average of at least 70% of the available marks in all taught modules passed will be eligible for consideration for the award of Postgraduate Diploma with Distinction. The Postgraduate Diploma with Distinction cannot be awarded if a candidate has failed any module during the period of study.

7. **Course Director:** Prof Declan McLoughlin  
   **Course Co-ordinator:** Dr Thekiso Thekiso

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**Biomedical Sciences (Intercalated) (M.Sc./P.Grad.Dip.)**

1. **Introduction:** This intercalated Masters course in Biomedical Sciences provides medical students with the option of taking an M.Sc. after year three of the M.B. degree. At year three students will have qualified for a B.A. However, this degree is not normally awarded until the students are conferred with their final M.B. The intercalated Masters will also be conferred at this point.

2. **Duration:** One-year, full-time.

3. **Course Structure:** The students will take a Core Module in Clinical Research (5 ECT) based in the School of Medicine and concurrently follow one of six specialist tracks, which will be provided by the actual modules as offered by the following currently running Masters courses (i) the M.Sc. in Molecular Medicine, (ii) the M.Sc. in Neuroscience, (iii) the M.Sc. in Bioengineering, (iv) the M.Sc. in Translational Oncology, (v) the M.Sc. in Healthcare Infection Management, or (vi) the M.Sc. in Immunology. Students will conduct a three-month research project and will submit a dissertation based on this research work. A pass mark in all three required sections (Core Module, Specialisation Track and Dissertation) will result in the awarding of M.Sc. in Biomedical Sciences.

If the student does not pass the dissertation component, but successfully passes the taught components, the Postgraduate Diploma will be awarded.

Students need only take a total of 85 ECT from the respective tracks as a consequence of the core Clinical Research Module and should discuss with module (worth 5 ECT) they may drop with the respective course Directors.

**Core Module:**

Clinical Research  (5 credits)

**Specialisation Track Modules (Bioengineering – 4 streams):**
Project work and Dissertation (30 credits)

Modules to the total value of 55 credits should be chosen from the following:

Physiological Measurement (10 credits)
Biomaterials (5 credits)
Biomechanics (5 credits)
Research Methods (15 credits)
Neural Engineering (5 credits)
Cell and Tissue Engineering (5 credits)
Neural Signal Analysis (10 credits)
Rehabilitation Engineering (5 credits)
Form and Function of the Nervous System (5 credits)
Implantable Neural Systems (5 credits)
Neuro-imaging Technology (5 credits)
Current Research Topics and Techniques in Neural Engineering (10 credits)
Medical Device Design (10 credits)
Laboratory Techniques in Cell and Tissue Engineering (5 credits)
Cellular Biology and Cell Signalling Mechanisms (5 credits)
Design/Innovation (10 credits)
Current Research Topics and Techniques in Medical Device Design (10 credits)
Current Topics in Cell and Tissue Engineering (10 credits)

Specialisation Track Modules (Neuroscience):

Six Core Modules
Statistics and Bioinformatics (5 credits)
Experimental Skills (5 credits)
Experimental Neuroscience (5 credits)
Literature Review (5 credits)
Clinical Research (5 credits)
Research Project (30 credits)

And select six of the following eleven:
Form and Function of the Nervous System (5 credits)
Neuropharmacology (5 credits)
Drug Development (5 credits)
Neuroimmunology (5 credits)
Chronic Pain (5 credits)
Neural Engineering (5 credits)
Neuroimaging (5 credits)
Receptor Topics in Neuroscience (5 credits)
Cellular Neuroscience (5 credits)
Journal Clubs (5 credits)
Biochemical Basis of Neuropharmacology (5 credits)

Specialisation Track Modules (Molecular Medicine):
Compulsory modules:
Research Skills (15 credits)
Project Work and Dissertation (30 credits)
Modules to the total value of 40 credits should be chosen from the following:
Human Genetics (5 credits)
Advanced Diagnostics and Therapeutics (5 credits)
Nanomedicine and Medicinal Chemistry (5 credits)
Infectious Agents Biological and Clinical Applications (5 credits)
Introduction to Genetics and Development (5 credits)
Cell Biology and Cell Signalling Mechanisms (5 credits)
Molecular and Cellular Immunology (5 credits)
Molecular Mechanisms of Human Disease I (5 credits)
Molecular Mechanisms of Human Disease II (5 credits)
Molecular Oncology (5 credits)
Neurobiology (5 ECTS)

Specialisation Track Modules (Translational Oncology):

*Compulsory Modules:*

Project Work and Dissertation (30 credits)
Cellular and Molecular Basis of Cancer (5 credits)
Tumour Immunology (5 credits)
Site-specific Cancers (5 credits)
Chemotherapy, Radiotherapy and Molecular Targeted Therapies (5 credits)
Cancer Epigenics, Gene Regulation and Stem Cells (5 credits)
Molecular Pathology and Diagnostic Imaging (5 credits)
Medical Ethics and Clinical Statistics (5 credits)
Molecular Oncology Research Skills (5 credits)

Modules to the total value of 15 credits should be chosen from the following:

Obesity, Metabolism and Physical Activity (5 credits)
Cellular and Genomic Instability (5 credits)
Cancer Drug Development (5 credits)
Tumour Microenvironment (5 credits)
Clinical Pharmacology and Therapeutic Toxicities (5 credits)
Surgical Oncology and Health Economics (5 credits)

Specialisation Track Modules (Healthcare Infection Management):

Clinical Microbiology and Infectious Diseases (15 credits)
Antimicrobial Therapy and Resistance (15 credits)
Epidemiology and Infection Control (15 credits)
Multidisciplinary Management of Infection (10 credits)
Research Project (30 credits)

Specialisation Track Modules (Immunology):
Modules to the value of 55 credits should be chosen from the following:
Basic Immunology (10 credits)
Immunological Technologies (10 credits)
Communicating Science and Critical Analysis (5 credits)
Tumour Immunology (5 credits)
Immunogenetics (5 credits)
Microbe Detection and Evasion (5 credits)
Clinical Immunology (5 credits)
Parasite Immunology (5 credits)
Global Infectious Diseases (5 credits)
Immunotherapeutics and Product Development (5 credits)
Research Project (30 credits)

4. **Assessment:** The Core Module and Specialisation Tracks are assessed by means of written examinations and assignments. General College regulations apply with regards to examinations and coursework. The student must pass all examinations and assignments. The pass mark for examinations and assignments is 50%. A dissertation relevant to the applications of Biomedical Sciences must be submitted and passed as assessed by an external examiner.

Both components (coursework and dissertation) must be passed for the degree of Masters in Biomedical Sciences to be awarded. No compensation between these two elements is available. Successful completion of the coursework (a pass in all components), but not the dissertation, will result in a Postgraduate Diploma being awarded to the student. To qualify for the award of the M.Sc. in Biomedical Sciences, students must achieve an overall mark of at least 50% which will be the credit-weighted average of all modules including the research project/dissertation and must pass taught modules amounting to 60 credits as well as the research project/dissertation. No compensation between these two elements is available. Students who have successfully passed
the taught modules of the course and accumulated 60 credits but who do not wish to proceed to the dissertation stage, or those who have submitted but failed the dissertation, will be considered for a Postgraduate Diploma (exit award). Students who have achieved an average of at least 70% of the available marks in all taught modules passed will be eligible for consideration for the award of Postgraduate Diploma with Distinction. Postgraduate Diploma with Distinction cannot be awarded if a candidate has failed any module during the period of study.

Should a Diploma award be made, the graduate cannot re-register for the course in order to complete it for the Masters in Biomedical Sciences degree. An external examiner monitors the assessment process.

5. **Course Director:** Dr Henry Windle

**Course Track Co-ordinators/Directors:**

- Core: Dr Henry Windle and Professor Dermot O’Toole
- Molecular Medicine: Professor Ross McManus
- Bioengineering: Professor Richard Reilly and Professor Conor Buckley
- Neuroscience: Professor Kumlesh Dev
- Translational Oncology: Drs Jacinta O’Sullivan and Graham Pidgeon
- Healthcare Infection Management: Professor Thomas Rogers
- Immunology: Professor Cliona O’Farrelly

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**Cardiology (M.Sc.)**

1. **Introduction:** The course is aimed at physicians who are undertaking specialist training in Cardiology. This course is run jointly between the Trinity College School of Medicine and the Department of Cardiology, St. James’s Hospital, Dublin.

2. **Duration:** Two years, part-time.

3. **Course Structure:** The course is delivered as lectures, demonstrations, seminars, practical and workshops. All students are required to attend the core curriculum of lectures
during the two years with examinations at the end of each year. Practical instruction in non-invasive and invasive techniques is supervised by nominated consultants and progress is assessed by continual assessment. A dissertation project is carried out over the two-year period, and it is evaluated by an external assessor.

The core syllabus consists of the following modules:


2. Research Methods and Statistics (5 credits)

3. Non-Invasive Cardiology (15 credits). This module covers the broad range of non-invasive cardiological techniques including nuclear cardiology.

4. Principles of Diagnostic and Invasive Cardiology (5 credits). This module involves theoretical and practical instruction in invasive cardiology.

5. Advanced Diagnostic and Invasive Cardiology (5 credits). This module involves advanced theoretical and practical instruction in invasive cardiology.

6. Pacing and Electrophysiology (10 credits). This module involves theoretical and practical instruction in pacing and cardiac electrophysiology.

7. Dissertation (30 credits). During the first year of the lecture programme, a research project will be chosen by each student in consultation with his/her course supervisor and the Course Director. The dissertation must establish that a significant piece of research has been performed and reported to an acceptable standard, i.e. suitable for publication in an established, peer-reviewed journal.

8. Practical Training. Part-time students must gain experience in and document competence in pre-specified techniques and procedures during their clinical training. The logbook of training is a very important part of student assessment and marking. If overseas full-time students are enrolled in the course, their practical training may be organised in conjunction with the lecture syllabus and the research project by local agreement with the Department of Cardiology, St. James’ Hospital and the course committee.

4. Assessment: Assessment takes the form of written examinations at the end of years one and two, a practical data interpretation examination at the end of year 2, continuous assessment in the form of a logbook completion and supervisors’ reports, and a research dissertation. Compensation between the taught modules will be permitted in line with the General Regulations. To qualify for the award of the M.Sc. in Cardiology, students must achieve an overall mark of at least 50% which will be credit-weighted average of all modules, including the research project/dissertation, must pass, outright or by compensation, taught
modules amounting to 60 credits and achieve an average mark of at least 50% across the taught modules as well as in the research project/dissertation.

The award of Masters with Distinction shall require, in addition, the achievement of a mark of 70% or above for the dissertation, and an overall average mark for the course of at least 70%. A Distinction cannot be awarded if a candidate has failed any module during the period of study. Internal and external examiners assess all components of the course.

5. **Location:** The lectures will be delivered in the Postgraduate Room, The Crest Directorate, Hospital 7, St. James's Hospital. In addition, the Anatomy lectures will be delivered in the Trinity Centre for Health Sciences, St. James’s Hospital.

6. **Course Director:** Dr Caroline Daly

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**Cardiovascular Rehabilitation and Prevention (M.Sc./P.Grad.Dip.)**

1. **Introduction:** This course aims to provide health professionals with an understanding of cardiovascular rehabilitation and prevention, to prepare health professionals to provide an effective cardiac rehabilitation service, and to objectively evaluate their practice through research. It also aims to develop the health professionals' knowledge of current prevention strategies in the area of cardiovascular disease.

2. **Course structure:** The course will be either one year full-time or two years part-time. This course carries 90 ECTS credits and comprises the following modules:

   - Cardiovascular and Respiratory Physiology (10 credits)
   - Exercise Prescription (10 credits)
   - Clinical Exercise Prescription (5 credits)
   - Research Methods and Statistics (10 credits)
   - Cardiology (10 credits)
   - Preventive Cardiology and Rehabilitation (10 credits)
   - Health Policy and Management (5 credits)
   - Research Dissertation (30 credits)
3. **Assessment:** Students must achieve 50% in each module, including the dissertation, of the course to fulfil the criteria for the award of the M.Sc. in Cardiovascular Rehabilitation and Prevention. Students will be required to complete a research dissertation of approximately 12,000 words. This research project will be carried out in the second year for students doing the course part-time. Each student will be assigned to a supervisor who he/she will meet with at regular intervals. The student will be required to submit a research proposal and an ethics application prior to commencing the data collection. At the end of this module the student will present their research findings in a dissertation format and paper format. The dissertation will follow the following format: Literature review, Research Methodology, Results, Discussion. The student will also submit a report of the research in a paper format of no more than 3,500 words.

If exceptional circumstances have arisen during the year to make it impossible to undertake the research dissertation, a student registered for the Masters course may apply for a Postgraduate Diploma in Cardiovascular Rehabilitation and Prevention. Approval will depend on successful completion of the taught elements of the course and a recommendation for the award of the Postgraduate Diploma by the examiners.

4. **Location:** The course will be based in the Trinity Centre for Health Sciences in AMNCH and the Trinity Centre for Health Sciences St James’s Hospital.

5. **Course Director:** Professor John Gormley

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**Clinical Chemistry (M.Sc./P.Grad.Dip.)**

1. **Introduction:** This M.Sc. programme in Clinical Chemistry is offered on a part-time basis over two years. All students regardless of background will gain a comprehensive understanding of the principles of Clinical Biochemistry to an advanced level.

2. **Course Structure:** Lectures, case discussions and practical instruction workshops will take place on Fridays over 4 terms with revision sessions in the Trinity term each year. The course consists of six modules worth 90 ECTS: Clinical Chemistry I (CH7501) has 15 ECTS; Clinical Chemistry II and General Paediatric Biochemistry (CH7502) 15 ECTS; Endocrinology and Metabolism I (CH7503) 10 ECTS; Endocrinology and Metabolism II and Inborn Errors of Metabolism (CH7504) 10 ECTS; Quality Assurance and Laboratory Management (CH 7505) 10 ECTS; Research Project has 30 ECTS. Students will carry out research in their base laboratory for the dissertation throughout the course and will be required to submit an outline proposal for the subject of their dissertation by the end of the first term.
3. **Assessment:** Continuous assessment: based on 6 written assignments and ten cases over the two years. Exams: there is an exam at the end of each year covering the year’s topics and consisting of one written paper and a practical assessment with a short *viva voce* at the end of the second year. The practical assessment will consist of short questions including clinical observations, practical findings, calculations, and other material in the format known as an Objective Structured Pathology Exercise (OSPE). Students will also need to complete and submit a research dissertation of approximately 12,000 words by 31st August of their final year. A pass must be obtained in the dissertation in order to be awarded the M.Sc. (no compensation is allowed). The written components must also be passed, though compensation is allowed between the components, provided a minimum mark of 40% is obtained in the failed component. Students who pass all components of the assessments but who do not submit a successful dissertation may be awarded a Diploma but not the M.Sc. Students may however exit with a diploma and return to complete the research component within a five year period. This is only in cases where the student has reached the required standard in the taught component and they must rescind the Diploma to do so.

4. **Course Director:** Dr Gerard Boran

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**Clinical Exercise (online) (P.Grad.Cert.)**

**Introduction:** The aim of this course is to enable health care clinicians to prescribe exercise as a disease preventative and treatment modality in a safe, effective and scientific manner. This course will provide students with an evidence-based, clinically focussed online learning experience. The course will be structured, yet flexible in order to be accessible and relevant globally.

**Admission Requirements:** The programme will be open to graduates from nursing, medicine, dietetics and nutrition, medicine, physiotherapy, occupational therapy and physiology. Graduates from other degree courses such as sports science will be assessed on an individual basis. Those with clinical experience will be prioritised. Successful applicants will hold a level 8 degree or equivalent professional degree at 2.1 level or equivalent. Applicants who do not fit these criteria, but who have clinical experience will be assessed on an individual basis by the Dean of Graduate Studies.

**Course Structure:** The Postgraduate Certificate in Clinical Exercise is offered as a one year online course with students taking four core modules totalling 30 ECTS as follows:
Module Title

The cardiovascular and respiratory system 10
Physical activity and exercise 5
Exercise in the prevention and treatment of disease 10
Exercise prescription for clinical populations 5

Assessment: Students will be assessed through the timely submission of essays, case scenarios, reflections and through the completion of multiple choice quizzes. Marks will also be awarded for substantial relevant contributions to discussion boards and for engagement with online learning resources. The final mark awarded is based on a credit-weighted average of the mark awarded in each module. The final mark for each module will be the weighted average mark derived from a combination of all the assessment elements. Students must observe all published deadline dates, which are final and have the status of examination dates. The pass mark is 50%. Compensation between modules is not allowed. Students who fail to achieve a minimum of 50% in a written assessment element may resubmit with a deadline for resubmission of one month from the publication of the initial results. Only one resubmission will be allowed, and the maximum mark awarded for the resubmitted assignment is 50%.

A student who fails the overall module but who has not taken the opportunity to resubmit any failed elements will have one opportunity to resubmit failed written elements before the supplemental examination board.

Students who have successfully passed all the required modules and accumulated 30 ECTS will be considered for a Postgraduate Certificate in Clinical Exercise. Students who have achieved an overall credit-weighted average mark of at least 70% will be eligible for consideration for the award of Distinction in Postgraduate Certificate in Clinical Exercise. A distinction cannot be awarded if a candidate has failed any credit during the period of study.

Course Director: Dr John Gormley

Course Co-ordinator: To be confirmed
1. **Location:** The course which runs under the auspices of the School of Medicine and Health Sciences, TCD, is based in the Medical Teaching Centre in St Patrick’s University Hospital, with library facilities in both the John Stearne Medical Library in St James’s Hospital and the TCD campus.

2. **Course Duration:** This is a biennial course offered on a part-time basis over two years.

3. **Learning Objectives:** The course has the following learning objectives:
   - In depth knowledge and understanding of the theoretical basis of cognitive psychotherapy
   - Application of disorder specific models of cognitive psychotherapy in a range of patients including complex, long-term cases
   - Evaluation of the evidence base for cognitive psychotherapy
   - Knowledge and understanding of the principles of supervisory practice in cognitive psychotherapy
   - Knowledge and understanding of research principles and methodologies used to assess delivery and outcomes of cognitive psychotherapy

4. **Course Structure:** the M.Sc. course carries 90 ECTS credits and comprises five modules:
   1. Clinical Placement Module (20 credits)
   2. CBT for Complex Mental Health Problems (15 credits)
   3. Self Practice / Self Reflection Skills in CBT (10 credits)
   4. Research Skills – Critical Appraisal of CBT literature (15 credits)
   5. Research Dissertation (30 credits)

This course offers the opportunity to explore in depth the theory and practice of cognitive psychotherapy. It is aimed to equip students with the knowledge and skills to use cognitive psychotherapy consistently and effectively in their work place. By the end of the course students should have established competence to assess and treat acute (Axis I) emotional disorders and have competence with the methods of schema-focused cognitive psychotherapy, which are more appropriate to long-term and recurrent disorders.

Students are encouraged to develop the ability to communicate professionally the key principles of cognitive psychotherapy, through case presentations to mental health colleagues and through achieving competence in writing theoretical reviews and case studies which illustrate different treatment approaches within cognitive psychotherapy. They
will also have demonstrated a capacity to reflect upon their own personal practice of cognitive psychotherapy. Students will have an understanding of research in cognitive psychotherapy and will complete a project of their own which shall be written up in a dissertation (circa 15,000 words).

5. **Assessment and Progression:** Students must attend at least 75% of lectures, tutorials and supervision sessions per semester to fulfil the criteria for the award of the Master of Science degree. Students must complete a total of 250 supervised clinical hours with patients by the end of the course and will require a satisfactory end-of-placement assessment by their supervisor.

Students will be expected to undertake regular audiotaped/videotaped clinical work using the principles of cognitive psychotherapy. The recordings must be brought into supervision sessions and a minimum of one recording must be submitted to their supervisor each term. Students are also required to complete all written assignments by the end of each term. Failure to do so will be reviewed by the Course Director and may result in the student not being allowed to progress to subsequent modules of the course until they are satisfactorily completed.

To qualify for the award of the M.Sc. degree, a score of at least 50% must be achieved in each module, including the research dissertation. Throughout the course, clinical performance is evaluated using the Cognitive Therapy Scale – Revised or other validated scales for this purpose. Pass scores mean that the student is carrying out competent and effective cognitive psychotherapy. Failure to reach this standard will mean that a Master in Science Degree cannot be awarded. It is not possible to use high scores in written assignments to compensate for inadequate clinical performance.

For the award of a Master of Science degree with Distinction students must, in addition, achieve a mark of at least 70% in the research dissertation and in the overall average mark for the course.

6. **Course Director:** Dr Brian Fitzmaurice

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**Cognitive Psychotherapy (P.Grad.Dip.)**

1. **Introduction:** This Postgraduate Diploma course introduces the student to the basic theory of cognitive therapy and customised applications of this model to a range of clinical syndromes. The curriculum emphasises a knowledge of cognitive behavioural models, concepts and methods; competence in developing cognitive case formulations; devising and implementing individual treatment programmes for a range of emotional disorders, and evaluating their effects; understanding the links between cognitive therapy and developmental and cognitive psychology; ethical issues in practising psychotherapy.
2. **Admission Requirements:** This course is offered as a specialised post-qualification course that builds on relevant knowledge and skills already possessed by prospective candidates. Suitable candidates for the course will:

a) be currently employed in a healthcare setting and providing counselling or psychotherapy as part of their work, and;

b) have achieved a recognised third-level qualification in a mental health profession (e.g. psychology, nursing, social work, medicine), and;

c) have relevant clinical experience and/or evidence of recognised foundation training in counselling/psychotherapy, and:

d) have two years postgraduate experience.

3. **Duration:** One year full-time.

4. **Course Structure:** The Postgraduate Diploma course carries 60 ECTS credits, and comprises six modules:

1. Basic Theory in Psychotherapy and the Cognitive Model
2. Introduction to Cognitive Behavioural Model
3. Cognitive Behavioural Model – Anxiety Disorders and Depression
5. Patients with Challenging Clinical Contexts
6. Individual and Group CBT – Multi-disciplinary Teams and Self-Help

This course will offer the opportunity to explore in depth the theory and practice of cognitive psychotherapy. It is aimed to equip students with the knowledge and skills to use cognitive psychotherapy consistently and effectively in their work place. By the end of the course students should be competent to assess and treat acute (Axis I) emotional disorders and be acquainted with the concepts and methods of schema-focused cognitive psychotherapy, which are more appropriate to long-term and recurrent disorders.

Students are encouraged to develop the ability to communicate professionally the key principles of cognitive psychotherapy, through case presentations to mental health colleagues and through achieving competence in writing theoretical reviews and case formulations which illustrate different treatment approaches within cognitive psychotherapy. At all times, an attitude of enquiry and creativity is encouraged in students, who may need to adapt to the unique outcome of each patient.
5. **Assessment and Progression:** Students must attend at least 75% of lectures, tutorials and supervision sessions per term to fulfil the criteria for the award of the Postgraduate Diploma. Students must complete 20 supervised clinical hours with patients per term and have completed the treatment of five cases using three disorder-specific models of CBT before the end of the course.

Students will be expected to undertake regular audiotaped/videotaped clinical work using the principles of cognitive psychotherapy. The recordings must be brought into supervision sessions and a minimum of one recording must be submitted to their Supervisor each term for rating using the Cognitive Therapy Scale. Students are also required to complete all written assignments by the end of each term. Failure to do so will be reviewed by the Course Director and may result in the student not being allowed to progress to subsequent modules of the course until they are satisfactorily completed.

A score of more than 50% must be achieved on all written assignments. It is possible to compensate for a mark between 40% and 50% on one written assignment if a score of at least 60% has been achieved in other written assignments. Students who fail the written assignments in any term will meet with the Course Director at the beginning of the following term and may be assigned an academic Supervisor to support them in making improvements in their submitted written assignments. This supplementary academic supervision will take place outside of the normal course timetable and will be arranged by the Course Director.

Throughout the course, clinical performance will be evaluated using the Cognitive Therapy Scale – Revised (CTS-R). Pass scores mean that the student is carrying out adequate and recognisable cognitive psychotherapy. Failure to reach this standard will mean that a Postgraduate Diploma cannot be awarded.

It is not possible to use high scores in written assignments to compensate for inadequate clinical performance. For the award of a Postgraduate Diploma with Distinction all submitted assignments (written assignments and recordings rated using CTS-R) must attract a mark of more than 70%.

6. **Location:** The Course will be based in St Patrick’s University Hospital, with library facilities in both St Patrick’s Hospital, the John Stearne Medical Library in St James’s Hospital and the Trinity College Dublin campus.

7. **Course Director:** Dr Brian Fitzmaurice
1. **Introduction**: This course aims to provide training for professional development of physical educators and health care workers who employ exercise therapy. In addition, this course would be ideal for those interested in gaining experience in assessment of exercise performance, and exercise applications in training and research. All graduates will develop an advanced understanding of how the body responds to acute and chronic exercise, in both physiological and pathological conditions, and acquire practical experience in the use of modern technologies for monitoring and assessing exercise performance.

2. **Admission Requirements**: To be eligible for admission, applicants are expected to hold a tertiary qualification, normally with some grounding in human biology. Typical candidates who achieve well on the course are employed in the field of physical education, as health professionals involved with patient management, or who have a significant personal involvement or interest in elite level exercise. Candidates with insufficient biological background may be required to undertake a lecture unit in basic physiological principles during the year before entry.

3. **Duration**: The M.Sc. in Exercise Physiology is a two-year part-time programme. Year one consists of individual modules which are usually taught on two days per week (Thursday and Friday) for the duration of the academic year (Sep-May). Year two comprises a research project to be completed over the duration of a calendar year (Sep-Aug).

4. **Course Structure**: Year one: Instruction will consist of approximately 300 contact hours across taught modules comprising 60 ECTS credits, as follows:

   - Cardiovascular physiology (5 credits)
   - Endocrine Regulation (5 credits)
   - Exercise Training and Nutrition (10 credits)
   - Fluids, Heat and Metabolic physiology (5 credits)
   - Integrated Exercise Physiology (15 credits)
   - Muscle and Nerve (5 credits)
   - Research Skills (5 credits)
   - Respiration (5 credits)
   - Clinical Exercise Physiology (5 credits)

   All modules will provide a focus on normal physiological function, pathological conditions and related aspects of exercise. Running themes throughout the course will encourage practical applications to human exercise, basics of data acquisition, recording and analysis and critical evaluation of published works. Normally lectures and workshops will take place in the mornings, with afternoons devoted to laboratory work.
Year two: The second year of the course will consist of a research project on some aspect of exercise physiology which will comprise 30 credits. Projects will be chosen in consultation with an expert Supervisor, with consideration being given to individual candidates’ interests. Practical work will be expected to occupy of the order of 300 hours. Organisation of the research will be a matter of negotiation between student and Supervisor, dependent on the time commitments of each. Meetings between student and Supervisor will take place on a regular basis, usually weekly but at least once per month.

5. **Assessment:**

Year one: All taught modules are assessed progressively throughout the year through a variety of formal reports, essays, practical work and through final written examinations (two three-hour papers) held during the Annual examination period. Students must also attend a viva voce examination following the end of year written papers. Subject to the discretion of the course of examiners, academic progress into year two of the course requires that students:

a) pass each module (pass mark 50%), and

b) achieve an overall combined grade of 60% or above for the year.

Students who pass each module (pass mark 50%) but achieve an overall combined grade less than 60% for the year will be offered a Postgraduate Diploma in Exercise Physiology and be required to exit the programme.

Year two: Assessment of the research project will be by dissertation which would be expected to be submitted within one year of enrolment. All dissertations are externally moderated. Students must obtain a pass to be awarded the M.Sc. degree. If students fail their dissertation they will be awarded a Postgraduate Diploma in Exercise Physiology. Students can be awarded the M.Sc. with Distinction if they achieve an overall mark of Distinction (70% or above) on their course work in year one, together with a mark of Distinction (70% or above) on their dissertation in year two.

6. **Course Director:** Professor Mikel Egaña

Global Health (M.Sc./P.Grad.Dip.)

1. **Introduction:** The M.Sc. in Global Health provides graduates with a greater appreciation of the global interconnectedness of health problems and equips them with a range of analytical and methodological skills to address the challenges of global health. Designed for individuals from a wide range of disciplines and professions, the programme
adopts a multidisciplinary approach that integrates health and social science perspectives to analyse, design, implement and evaluate health programmes within a global context.

The course augments traditional approaches to public and international health by bringing together perspectives and insights from a range of health and social sciences in understanding and resolving the challenges of global health. The course also emphasises local experiences that resonate globally in the case of Ireland. The strongest emphasis within the course is on health in low-income settings and the impact of globalization.

2. **Admission Requirements:** The course is intended for individuals from a wide range of disciplines and professions who wish to develop an understanding of health issues that integrate health and social science perspectives in a global context. As global health is a multidisciplinary field, applicants can be Honors Bachelor graduates of any academic discipline. Applicants must have a demonstrated interest and/or experience in global health or health issues in low-income countries.

3. **Duration:** The course is offered on a one-year, full-time basis or on a two-year, part-time basis.

4. **Course Structure:** Students must obtain 90 ECTS credits to graduate: 60 credits for the taught component and 30 credits for the dissertation.

The taught component consists of compulsory modules designed to increase understanding of health determinants, health system organisation, health policy and financing, and various research methodologies and skills useful in the field of global health. In addition, students must take optional modules, which may reflect the diversity of their academic, research and career interests. Not all optional modules will be available every year.

Upon completion of the modules, students will undertake and complete a programme of research leading to the writing and submission of a dissertation. The dissertation may be written following research and/or internship placement with government departments, international agencies and civil society organisations in Ireland or elsewhere.

Part-time students will take at least four compulsory modules and two optional modules amounting to not less than 30 credits in year one, and the balance in year two.

**Compulsory Modules (40 credits):**

**Basic Epidemiology (5 credits)**
**Epidemiology in Humanitarian Emergencies (5 credits)**
**Determinants of Health (5 credits)**
**Critical Reading of Statistics for Global Health (5 credits)**
Health Economics and Financing (5 credits)
Health Policy and Systems (5 credits)
Key Skills in Global Health 1: Project Planning and Management (5 credits)
Principles of Social Research (5 credits)
Optional Modules (20 credits) (not all optional modules will be available every year):
Media and Advocacy for Global Health (5 credits)
Environmental Health and Climate Change (5 credits)
Culture, Health and Illness (5 credits)
Dynamics of International Aid for Global Health and Development (5 credits)
Frontiers of Knowledge in HIV and AIDS (5 credits)
Reproductive, Maternal and Child Health (5 credits)
Human Resources for Health (5 credits)
Human Rights and Inclusive Global Health (5 credits)
Nutrition and Global Health (5 credits)
Social Epidemiology (5 credits)
Systematic Reviews (5 credits)
Health Informatics and ICT (5 credits)
Research Dissertation (30 credits)

5. **Assessment:** Assessment of the modules will be done by assignment. The pass mark for all elements is 50%. Students may be permitted to re-submit a failed assignment, in which case the maximum mark that can be awarded is 50%. Compensation between modules is not permitted. Assessment of the research project will be by submission of a dissertation of a maximum of 15,000 words. Part-time students must achieve a minimum mark of 50% in each module in the first year in order to proceed to the second year. To qualify for the award of the M.Sc. degree, students must pass all taught modules amounting to 60 credits and achieve a pass in the research project/dissertation. In order to be awarded the M.Sc. with Distinction, students must achieve a distinction for the research dissertation and obtain an overall credit-weighted average mark for the course of 70% or above.

Students who have passed taught modules amounting to 60 credits but who do not proceed to, or who fail, the research project/dissertation, may be awarded the Postgraduate Diploma
in Global Health. Such students who, in addition, achieve an overall average mark of at least 70% may be awarded the Postgraduate Diploma with Distinction.

A Distinction cannot be awarded if a student has failed any credit during the course.

6. **Course Director:** Professor Fiona Larkan

**Health Services Management (M.Sc. /P.Grad.Dip.)**

1. **Introduction:** The M.Sc. in Health Services Management programme is designed to encourage and support health professionals’ involvement in the management of health services. In addition to classes from several health and management related disciplines within the College, the course also includes contributions from leading policymakers and senior managers in the Irish health system, thus ensuring a practical focus and equipping participants with the skills and understanding needed to manage more effectively in a rapidly changing environment.

   Particular emphasis is placed on the importance of interdisciplinary exchange within small group settings. Case studies and class discussion facilitate the application of learning and ensures that the course imparts a theoretical framework of understanding whilst maintaining a practical focus. The course is continually updated to reflect developments occurring within our rapidly changing healthcare environment. A key feature within the course is the relatively small class size, which allows us to optimise learning for individual students.

2. **Admission Requirements:** A recognised third level qualification at the Bachelor’s degree level or above* in a professional discipline is necessary for entry into the M. Sc. in Health Services Management.

   * Potential candidates with Irish nursing qualifications dating before 2002 might be exempt from this otherwise strict entry requirement of a Bachelor’s degree. Other candidates with non-degree qualifications due to the grading structure of their disciplines, are advised to contact the Course Coordinator directly.

   Due to the limited number of places available in each academic year, a Selection Committee makes the final admission decisions according to a predefined scoring system that takes into account, amongst other things, the candidates’ career aspirations and academic track records. Occasionally we may invite short-listed candidates for an interview before making the final place offers.
For potential applicants who do not have English as their first language, and/or whose primary degree was delivered in a language other than English, they are advised to check with the Graduate Studies Office (+353 1 896 1166) regarding the documentation they need to submit to demonstrate their English proficiency for pursuing a course at the Masters' level at Trinity College Dublin.

3. **Duration:** The M.Sc. Health Services Management course extends over two calendar years (i.e. students are expected to complete coursework related to their dissertation over the summer periods following each academic year). It is a two-year, part-time programme. Course attendance comprises three-day blocks each month (except during the summer period) to facilitate work release. Each course attendance day consists of six hours of lecture sessions, plus occasional workshops.

   Year One: September - June: Ten blocks of three days per month.
   Year Two: September - June: Ten blocks of three days per month.

4. **Programmes of study:** The course comprises 90 ECTS credits in total: 30 credits for the coursework component in each academic year and 30 credits for the dissertation.

   The first year of the M.Sc. course comprises five modules: Understanding the Healthcare Environment (Population Health; Law; and Marketing); Managing People in Healthcare Organisations (Management and Organisational Behaviour; Human Resources Management; and Organisational Development); Financial Management; Health Economics; and Information & Operations Management. The first part of the Research Methods module is also included in the first year.

   In the second year of the M.Sc. course, students take four modules: Health Policy; Strategic Management; Comparative Healthcare; and the second part of Research Methods and Healthcare Ethics; and the Research dissertation.

5. **Course Structure:** The breakdown of the ECTS credits is as follows:

   Year One: Understanding the Healthcare Environment (5 credits), Managing People in Healthcare Organisations (10 credits), Financial Management (5 credits); Health Economics (5 credits); Information & Operations Management (5 credits)

   Year Two: Health Policy (5 credits); Strategic Management (10 credits); Comparative Healthcare (5 credits); Research Methods and Healthcare Ethics (10 credits)
6. **Assessment:** Students must pass all modules in the first year and obtain approval from the Course Coordinator for their dissertation proposal in order to proceed to the second year of the course.

To qualify for the award of the M.Sc. degree, students must as a minimum,

(i) achieve an overall pass mark which is the credit-weighted average mark for all taught modules taken, and

(ii) achieve a pass mark in the dissertation.

In order to qualify for the award of the M.Sc. degree with Distinction, students must, as a minimum, achieve a final credit-weighted average mark for the coursework of at least 70%, and achieve a mark of at least 70% for the dissertation. The M.Sc. degree with Distinction cannot be awarded if a candidate has failed any module during the period of study.

Students who have passed taught modules in accordance with (i) and (ii) above, but who do not achieve a pass mark in the dissertation, cannot be awarded the M.Sc. degree. Such students may be awarded the Postgraduate Diploma. Students who have achieved an overall credited-weighted average mark of at least 70% will be eligible for the award of Postgraduate Diploma with Distinction. A Postgraduate Diploma with Distinction cannot be awarded if a candidate has failed any module during the period of study.

7. **Course Director:** Prof. Charles Normand

**Course Co-ordinator:** Ms Mandy Lee

**Course Administrator:** Ms Chloe Gauvin
delivered by the Department of Clinical Microbiology, School of Medicine in conjunction with partner organisations including St James’s and Tallaght Hospitals. The course also includes input from overseas experts in the area of healthcare infection.

2. **Admission requirements:** Applications will normally be received from those who hold one of the following qualifications:

- A medical degree
- An Honors Bachelor degree in Biomedical Sciences, Nursing, or Pharmacy, or Microbiology
- An Honors Bachelor degree in another relevant science subject

Applications may also be received from individuals with a minimum three years of relevant healthcare experience and suitable qualifications.

Applicants meeting these requirements may be required to attend for interview.

3. **Duration:** One year, full-time or two years, part-time. The lecture content will be delivered over a series of one-week blocks. Research projects may take place in Trinity College, a partner organisation, or, where appropriate, in the student’s place of work.

4. **Course structure:** The core syllabus consists of the following modules:

1. Clinical Microbiology & Infectious Diseases (15 ECTS)
2. Antimicrobial Therapy & Resistance (15 ECTS)
3. Epidemiology & Infection Control (15 ECTS)
4. Multidisciplinary Management of Infection (15 ECTS)
5. Research Project/Dissertation (30 ECTS)
Part-time students should complete at least two taught modules during Year 1, and the remaining modules during Year 2, of the MSc. The multi-disciplinary module 4 is normally taken after successful completion of modules 1 to 3.

5. **Assessment:** Students must attend each of the modules of the course. Successful completion of assigned year 1 modules is required before proceeding to year 2 of the course. Student assessment will be based on a combination of assessment and coursework for each module. A 50% pass mark is required for each module, and also for the dissertation. In the calculation of the overall average mark, modules, including the dissertation, are weighted according to their ECTS credit value. The research dissertation will be assessed by the project supervisor, an internal examiner, and where required, an external examiner. All modules are designated non-compensatable.

To qualify for the award of the M.Sc. degree, students must pass taught modules amounting to 60 credits and achieve a pass in the research project/dissertation. In order to qualify for the award of Masters with Distinction, students achieve distinction for the research dissertation (70 % or above) and obtain an overall credit-weighted average mark for the course of 70 % or above. This must include a distinction mark in at least 2 of the taught modules and no fail grade in any module.

Students who achieve a pass in the taught modules amounting to 60 credits but who do not achieve a pass in the research project/dissertation, may be awarded a Postgraduate Diploma in Healthcare Infection Management. A Postgraduate Diploma with distinction may be awarded to students who pass the taught modules amounting to 60 credits and who achieve a final overall average mark of at least 70%.

6. **Course Director:** Professor Thomas Rogers

   **Course Coordinator:** Assistant Professor Helen Miajlovic
Master in Medicine (P.Grad.Dip. – exit only)

1. Introduction: The Master in Medicine course is aimed at medical graduates in training who wish to develop their research skills, broaden their research interests, and develop advanced knowledge in selected areas of clinical and scientific practice. The course aims to equip students with the knowledge, skills and competence to work at an advanced level in clinical and scientific practice, and to develop and sustain evidence-based practice.

2. Admission Requirements: Candidates should be medically qualified (MB, BCh, BAO or equivalent from a recognised medical school), be registered with the Medical Council of Ireland (or equivalent overseas regulatory body) and should be at least 2 years post registration. In addition each candidate will be invited to attend for interview to assess his/her suitability for the course and to determine which optional strand the candidate will pursue in the second year of the course.

3. Duration: One year full-time / two years part-time.

4. Course Structure: Fulltime students are required to take taught modules (to a total value of 60 ECTS credits) over two semesters. Part-time students are required to take taught modules (to a total value of 30 ECTS credits) each year over two semesters. All students are required to complete a research and dissertation module (30 ECTS credits). The taught modules consist of 4 mandatory (“core”) modules (totalling 20 ECTS) as follows:
   - Professional and Ethical Practice of Medicine (5 credits)
   - Biostatistics, Health Research Methods and Critical Appraisal (10 credits)
   - Patient Safety and Quality of Patient Care (5 credits)

   Students will also take additional modules (totalling 40 ECTS) from the following optional module list:
   - Management of chronic disease and multi-morbidity in clinical practice (10 credits)
   - Developing & Prescribing Medicines for Special Populations (5 credits)
   - Teaching and Learning for Clinical Specialists (5 credits)
   - Health Economics (5 credits)
   - Pharmacoepidemiology and Drug Safety (5 credits)
   - The Role of Biological and Advanced Therapies in Current Clinical Practice (5 credits)
   - Clinical Skills for Clinical Specialists (5 credits)
   - Leadership skills for clinical specialists (5 credits)

   Students will also undertake a research and dissertation module (30 credits). Fulltime students will be expected to submit a dissertation of about 10,000 words on an approved research project by 31st August of the course year (submission will be 31st August of the second year for the part-time course).

5. Assessment procedure: Each module will be assessed by way of completion of written personal assignments after the module, within an agreed timeframe. Some of the modules may also be evaluated by way of an examination during or after completion of the module. These will be awarded a mark which will be taken into account (together with all continuous
assessment marks) in the overall final evaluation of the course. The final mark for the course will be the credit-weighted average of all taught modules and the dissertation.

**Pass/Fail process:** To qualify for the award of the M.M. students must pass outright or by compensation all modules taken, including the dissertation, and obtain 90 credits.

**Failure of a module:** Obtaining an average of 50% of the available marks derived from each assessment type employed in the module is required to pass each of the taught modules. In cases where students fail to achieve a minimum of 50% in a written assignment or examination within a module, a resubmission / retaking of the examination will be permitted within agreed timelines. The students will only be allowed one resubmission / repeat of the examination and the maximum mark to be awarded for the module is 50%. Students may compensate for one fail mark in one assessment type within a module provided they achieve a minimum of 45% in that assessment and an average of at least 55% in the other assessment type(s) within the same module.

**Compensation:** Students who fail a module from either the core or optional strands, but obtain 40% or more marks in that module may compensate from marks awarded for the other modules in the same strand up to a total of 10%. Failure of a module on the second attempt, or failure of three or more of the taught modules in total, indicates failure of the whole course requiring exit from the course. Compensation is not possible for certain modules, including the dissertation; neither can the dissertation be used to compensate for any of the taught modules. The dissertation module must be passed in order for the student to be considered for an award of Master in Medicine degree.

**Progression:** All students register on the Master programme. Students in the part-time course must pass modules totalling 20 ECTS credits during the first year in order to progress to the second year optional modules. Full-time students will undertake the core and optional modules in parallel. All students must pass all taught modules in order to undertake the research project. Students who have successfully passed the taught modules of the course and accumulated 60 credits but who do not wish to proceed to the dissertation stage, or those who have submitted but failed the dissertation, will be considered for a Postgraduate Diploma (exit award). Students who have achieved an average of at least 70% in the overall average mark for the taught modules will be eligible for consideration for the award of Postgraduate Diploma with Distinction. Postgraduate Diploma with Distinction cannot be awarded if a candidate has failed any module during the period of study.

A dissertation will be submitted and examined in line with the *General Regulations for Taught Graduate Courses* stated in Part B (Section 3) of the *University of Dublin Calendar part 2 for Graduate Studies and Higher Degrees* for a given year. The award of a M.M. with distinction shall require the achievement of a distinction for the dissertation, and an overall average mark for the course of at least 70%. A distinction cannot be awarded if a candidate has failed any module during the period of study.

**6.Course Location:** Trinity Centres in St James’ Hospital (SJH) and the Adelaide, Meath, National Children’s Hospital, Tallaght (AMNCH) and the Biomedical Sciences building, Trinity College Dublin.

**7.Course Director:** Professor Martina Hennessy

**Course Co-ordinator:** Professor Mary Teeling
Medical Imaging (M.Sc.)

1. **Introduction:** This course is offered by the School of Clinical Medicine and is aimed at qualified radiographers. Students enrolled on the MSc in Medical Imaging will pursue a specific strand: Nuclear Medicine, Radiation Safety and Interventional Radiography, Magnetic Resonance Imaging or Computed Tomography. In September 2014 the Nuclear Medicine and Radiation Safety and Interventional Radiography strands will commence. The taught component of the course runs from September to May. At this stage, the student may opt to exit the course with a Postgraduate Diploma in Medical Imaging. From May to the end of August, the student will carry out a substantial piece of research work and present this in the form of a dissertation to be eligible for consideration for the award of M.Sc. in Medical Imaging.

2. **Aim:** The main aim of the course is to train and qualify Radiographers in the practice of either Nuclear Medicine, Radiation Safety and Interventional Radiography, Magnetic Resonance Imaging or Computed Tomography. The practical clinical experience required in each strand of the M.Sc. will be gained in the student’s own department. The Nuclear Medicine strand is designed to give a solid academic base in the understanding of the safe use and management of isotopes, and a high level of practical experience in Nuclear Medicine imaging techniques. The Radiation Safety and Interventional Radiography strand aims to provide a solid academic background in the legislative framework governing radiation protection and a high level of practical experience in clinical Interventional Radiography. The Magnetic Resonance Imaging strand is designed to give a solid academic basis in the understanding of MR imaging, and a high level of practical experience in MRI techniques and in the safe use of MR imaging and associated equipment. The Computed Tomography strand is designed to give a solid academic basis in the understanding of Computed Tomography, and a high level of practical experience in Computed Tomography techniques and in the safe use of Computed Tomography imaging and associated equipment. The research methods and dissertation element of the course is designed to develop the student’s research skills.

3. **Admission Requirements:** Applications will be accepted from those who:

   - Hold a BSc in Radiography, or
   - Hold an equivalent qualification,
   - Have access to a clinical placement in a Radiology Department. Candidates will not be accepted onto the course unless they have a clinical placement,
   - Otherwise satisfy the course admission committee that they have the ability to complete and benefit from the course.
4. **Duration:** The M.Sc. in Medical Imaging will run over 12 months, commencing in September.

5. **Course Structure:** The M.Sc. in Medical Imaging will incorporate both taught and practical components, with the taught component forming a substantial part. It is a course requirement that the student must spend a minimum of 15 hours per week on clinical placement in either a Nuclear Medicine Department, an Interventional Radiology Department, a Magnetic Resonance Imaging Department or a Computed Tomography Department, as appropriate for the strand on which the student has enrolled.

The M.Sc. course consists of taught modules (60 ECTS) and a research project culminating in a written thesis of 20,000 words (30 ECTS).

The list of common core taught modules currently available to students on the Nuclear Medicine, Radiation Safety and Interventional Radiography, Magnetic Resonance Imaging and Computed Tomography strands are:

1. Medico-Legal Aspects and Ethics, Health Services Management, and Risk Management and Clinical Audit (10 ECTS)
2. Clinical Practice (10 ECTS)

Mandatory additional modules in the Nuclear Medicine strand are:

3. Physics and Instrumentation, and Computer Technology, Radiation Protection and Quality Control (15 ECTS)
4. Clinical Applications of Nuclear Medicine and Hybrid Imaging (15 ECTS)
5. Anatomy, Physiology and Pathology applied to Nuclear Medicine (5 ECTS)
6. Radiopharmacy (5 ECTS)

Mandatory additional modules in the Magnetic Resonance Imaging strand are:

7. Physics, Instrumentation and Computer Technology of MRI (10 ECTS)
8. MR Imaging Techniques and Protocols, Anatomy, Physiology and Pathology I (10 ECTS)
9. MR Imaging Techniques and Protocols, Anatomy, Physiology and Pathology II (15 ECTS)
10. Safety and QA in MR (5 ECTS)

Mandatory additional modules in the Radiation Safety and Interventional Radiography strand are:

1. Practical Aspects of Radiation Protection and Radiation Protection Legislation (10 ECTS)
2. Physics, Instrumentation and Computer Technology (10 ECTS)
3. Quality Management and Quality Control (5 ECTS)
4. Interventional Imaging Techniques and Protocols, Anatomy, Physiology and Pathology (15 ECTS)

Mandatory additional modules in the Computed Tomography strand are:

5. Physics, Instrumentation and Computer Technology of CT (10 ECTS)
6. CT Imaging Techniques and Protocols, Anatomy and Pathology I (10 ECTS)
7. CT Imaging Techniques and Protocols, Anatomy and Pathology II (15 ECTS)
8. Radiation Protection and QA in CT (5 ECTS)

All students proceeding to the dissertation component will also take the following module:

9. Research Methods and Dissertation (30 ECTS)

6. Assessment: The taught modules are assessed primarily by written examination and clinical assessment. The clinical assessments include clinical portfolios, structured clinical evaluation (OSCE) examination, student presentations and an on-site practical clinical assessment. The written examination and OSCE is conducted in early May. All elements of the clinical assessment (portfolios, OSCE examination, oral presentation, etc.) must be completed.

To be allowed to proceed to the dissertation component leading to the degree of M.Sc. in Medical Imaging (Nuclear Medicine/ Radiation Safety and Interventional Radiography/Magnetic Resonance Imaging/Computed Tomography), students must achieve an average mark of 65% on the taught component of the course. Additionally, the student must achieve the pass mark of 50% in the assessments and written examination. No cross compensation is allowed between modules.

Only students who satisfy the criteria outlined above may proceed to the research component. MSc students will complete a substantial research project and submit a
dissertation of approximately 20,000 words. To satisfactorily complete a dissertation, students must submit their dissertation by the prescribed date and must obtain a pass mark of 50%. In order to qualify for the award of Masters with Distinction students must achieve a final overall mark of 70% in the taught component element and at least 70% in the dissertation or research element. A distinction cannot be awarded if a candidate has failed any credit during the period of study.

Students who have passed the taught modules as outlined above but who do not choose to complete the dissertation or research element may be awarded the Postgraduate Diploma in Medical Imaging. In order to qualify for the award of Postgraduate Diploma with Distinction, students must achieve an overall credit weighted average mark of at least 70% across all modules. At the annual Court of Examiners, students who fail the taught component assessments may at the discretion of the Court of Examiners, submit a supplementary assessment by an appointed date. Marks awarded at supplementary assessments are capped at the pass mark of 50%..

The examinations, coursework and dissertation are subject to external review.

7. **Course Director:** Ms Bernadette Moran

**Course Co-ordinators:** Ms Suzanne Dennan (Nuclear Medicine), Mr Brendan McCoubrey (Radiation Safety and Interventional Radiography), Ms Ann Stafford (CT), Ms Deborah Prior (MRI)

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**Molecular Medicine (M.Sc.)**

1. **Introduction:** Recent years have seen an enormous expansion in our knowledge of molecular and cellular biology leading to an ever improved understanding of the essential molecular mechanisms underlying the normal functioning of cells, tissues and organisms. Molecular Medicine is a field that exploits these advances to characterise how normal cellular processes either fail, or are subverted, in disease. Developments in this area are continuing at an explosive pace with the integration of new disciplines such as Genomics and the related “omics” areas of transcriptomics, proteomics and metabolomics. Allied with
other developments such as the applications of nanotechnologies in medicine, these are expected to transform diagnostic and therapeutic modalities into the future. Molecular Medicine will thus be an increasingly important aspect of medical practice and research into the future. This state-of-the-art programme aims to provide candidates with an understanding of the area and its implications for the practice of clinical medicine and research in the health and life sciences. It covers the latest theoretical and technological developments, and provides training in the practical aspects of molecular medicine, with the objective of ensuring the candidate is equipped with the skills necessary to conduct research and critically evaluate the scientific and medical literature.

2. **Admission Requirements:** Applications are invited from candidates with a minimum of an upper-second class Honors Bachelor degree or equivalent in a biological science, or an Honors Bachelor degree in a clinical science such as medicine, dentistry or veterinary; a pharmaceutical science such as pharmacy, or related area. Other appropriate professional or industrial experience (for example those working in the life sciences sector) will be taken into account. The candidate may be interviewed to establish his/her suitability for the course at the discretion of the Course Co-ordinators.

3. **Course Structure:** The course is available in both a one-year full-time and a two-year part-time format. It consists of lectures on cellular biology and molecular genetics as they apply generally to normal cell and tissue function and more specifically to disease processes such as cancer, immune dysfunction, and diseases with an inherited component. The course consists of a taught component and a research component.

The following taught module is mandatory:

Molecular Mechanisms of Human Diseases I (5 credits)

Candidates also select modules to the total value of 40 credits from the following:

Cellular Biology and Cell Signalling Mechanisms (5 credits)

Introduction to Genetics and Development (5 credits)
Molecular Oncology (5 credits)

Human Genetics (5 credits)

Molecular and Cellular Immunology (5 credits)

Infectious Agents Biology and Clinical Implications (5 credits)

Molecular Mechanisms of Human Diseases II (5 credits)

Advanced Diagnostics and Therapeutics (5 credits)

Nanomedicine and Medicinal Chemistry (5 credits)

The research component consists of a mandatory ‘Research Skills’ module which encompasses bioinformatics and statistics, ethical-legal aspects of medical research, a literature review, and two weeks of laboratory practicals in basic molecular and cellular techniques. Candidates will also complete a mandatory laboratory project over three months full-time (or the part-time equivalent).

Research component modules:

Research Skills (15 credits)

Research Project (30 credits)

4. **Assessment:** Theoretical understanding of the course will be evaluated by written examination. Laboratory practical reports will be included in assessing the candidate’s proficiency. The research component will be assessed by dissertation. The grade scheme for modules is as follows: Distinction (D) = 70%+; Pass (P) = 50-69%; Fail 1 (F1) = 40-49%; Fail 2 (F2) = 0-39%. Both taught and research components must be passed in order for a
candidate to pass the year. The taught component must be passed in order to progress to the research component. A Distinction requires an overall mark of 70% or above including 70% or above in the research project/dissertation. Compensation is only allowed for up to two taught modules amounting to a maximum of 10 credits where F1 grades are achieved. Failure of more than two taught modules where F1 grades are achieved or receipt of an F2 grade for any module will require re-assessment of all failed taught modules by supplemental exam. Ordinarily a maximum of 4 supplemental exams will be allowed. An external examiner with a record in the field of molecular medicine will be appointed to ensure the academic excellence of the course. Examinations and dissertations will be externally moderated. If a student does not pass the dissertation, but successfully passes the taught components, a Postgraduate Diploma will be awarded in which case the graduate cannot subsequently re-register for the course in order to complete the M.Sc. in Molecular Medicine.

5. **Course Director:** Professor Ross McManus

6. **Course Co-ordinators:** Dr Michael Freeley Dr Anthony W. Ryan, Prof Yuri Volkov and Dr Henry Windle.

Molecular Medicine (P.Grad.Dip.)

1. Recent years have seen an enormous expansion in our knowledge of molecular and cellular biology leading to an ever improved understanding of the essential molecular mechanisms underlying the normal functioning of cells, tissues and organisms. Molecular Medicine is a field that exploits these advances to characterize how normal cellular processes either fail, or are subverted, in disease. Developments in this area are continuing at an explosive pace with the integration of new disciplines such as Genomics and the related “omics” areas of transcriptomics, proteomics and metabolomics. Allied with other developments such as the applications of nanotechnologies in medicine, these are expected to transform diagnostic and therapeutic modalities into the future. Molecular Medicine will
thus be an integral aspect of clinical practice in the 21st century and this state-of-the-art programme aims to provide candidates with an understanding of the area and its implications for the practice of clinical medicine and research in the health and life sciences. It covers the latest theoretical and technological developments, and provides training in the practical aspects of molecular medicine, with the objective of ensuring the candidate is equipped with the skills necessary to conduct research and critically evaluate the scientific and medical literature.

The Postgraduate Diploma in Molecular Medicine is designed to make available a high quality course to those individuals who cannot avail of the Masters course, due to the high demands it makes on a candidate’s time. Thus the Postgraduate Diploma may be an attractive option for, among others, those working in business, industry, clinical, or other disciplines, who wish to gain a comprehensive knowledge in this area with a view to professional progression or proceeding to do a higher degree.

2. Admission Requirements: Candidates should normally have a minimum of an upper-second class Honors Bachelor degree or equivalent in a biological science, or an Honors Bachelor degree in a clinical science such as medicine, dentistry or veterinary; a pharmaceutical science such as pharmacy, or related area. However, individuals with other appropriate professional or industrial experience (for example those working in the life sciences sector) will also be considered. The candidate may be interviewed to establish his/her suitability for the course at the discretion of the Course Co-ordinators.

3. Course Structure: The course is delivered in a one-year format and carries 60 ECTS credits. It consists of lectures on cellular biology and molecular genetics as they apply generally to normal cell and tissue function and more specifically to disease processes such as cancer, immune dysfunction, and diseases with an inherited component. It includes modules on molecular signaling and therapeutics, molecular and population genetics, glycobiology, nanomedicine and medicinal chemistry. The core module entitled “Practical Research and Self-directed Learning” includes topics such as bioinformatics, statistics, ethical-legal aspects of the discipline, plus journal clubs, a literature review, a laboratory practical and delivery of a lecture. The course consists of the core module (30 credits) and a
selection of taught modules (totalling 30 credits), which the student may choose, in consultation with Course Co-ordinators, from the list below.

Core Module:

Practical Research and Self-directed Learning (30 credits)

Optional Modules to the total value of 30 credits should be chosen from the following:

Cellular Biology & Cell Signaling Mechanisms (5 credits)
Introduction to Genetics and Development (5 credits)
Molecular Oncology (5 credits)
Human Genetics (5 credits)
Molecular and Cellular Immunology (5 credits)
Infectious Agents, Biological and Clinical Applications (5 credits)
Molecular Mechanisms of Human Disease I (5 credits)
Molecular Mechanisms of Human Disease II (5 credits)
Advanced Diagnostics and Therapeutics (5 credits)
NanoMedicine and Medicinal Chemistry (5 credits)

4. **Assessment:** The core module will be assessed by written examinations and assessment of submitted work. The taught modules will be assessed by written examinations. The grade scheme for modules is as follows: Distinction (D) = 70%+; Pass (P) = 50-69%; Fail 1 (F1) = 40-49%; Fail 2 (F2) = 0-39%. Both core and combined taught modules must be passed in order for a candidate to pass the year. A Distinction requires an overall mark of 70%+ including 70%+ in the core module. Compensation is only allowed for up to two taught modules where F1 grades have been achieved. More than two F1 grades and/or any F2 grades will require re-assessment of failed taught modules by supplemental
exam. Ordinarily a maximum of four supplemental exams will be allowed. An external examiner with a record in the field of molecular medicine will be appointed to ensure the academic excellence of the course. Examinations and submitted work will be externally moderated.

5. **Course Director:** Professor Ross McManus

**Course Co-ordinators:** Professors Aideen Long, Prof Ross McManus, Dr Michael Freeley, Dr Anthony W. Ryan, Derek Morris, Prof Yuri Volkov and Dr Henry Windle.

**Molecular Pathology (M.Sc)**

The course is under review and not currently available to new entrants

1. **Introduction:** The aim of this course, which is run jointly with the D.I.T., Kevin Street, is to provide postgraduate education in Medical Laboratory Science for those wishing to pursue a career in this field. The course will provide an advanced programme in the molecular basis of disease and will address the interaction of key areas such as cell biology, molecular genetics and immunology with the aetiology, pathogenesis and investigation of the disease process. While the main content of the course will deal with the broad field of biomedical science, students will in addition, choose modules in specialist subject areas from one of the following:

1. Clinical Chemistry
2. Haematology
3. Clinical Immunology/Transfusion Science
4. Medical Microbiology
5. Cellular Pathology

2. **Admission Requirements:** Applicants must have a good Honors Bachelor degree in biomedical science, or related area, or hold Part 1 or Part 2 Fellowship examination of the Institute of Biomedical Science or have a suitable equivalent qualification. Selection for the course may require an interview. Applicants for the part-time course must be employed in an appropriate post in a hospital, veterinary or other suitable laboratory and must provide
evidence that project facilities will be available to them. Preference will be given to applicants with two or more years of postgraduate work experience.

3. **Course Structure:** The course will be offered on a full-time basis, over one year, and also on a part-time, block-release basis, over two years. The course will commence in September. The course will operate on a student-centred approach with tutorials and seminars in addition to a formal lecture/workshop programme. Students are required to take the following modules:

1. Protein conformational disorders (6 credits)
2. Professional scientific development 1 (6 credits)
3. Inflammation, genetics and oncogenic processes in pathology (12 credits)
4. Nutritional influences on pathological processes (6 credits)
5. Immunopathological processes (3 credits)
6. Advanced scientific methods (3 credits)
7. Specialist topic (9 credits)
8. Professional scientific development 2 (6 credits)
9. Virology (9 credits)
10. Project by research (30 credits)

4. **Assessment:** Students will present a portfolio of work throughout the course.

5. **Dissertation:** A dissertation or project is a mandatory component of the course and the project will be presented in a traditional dissertation format.

6. **Examinations:** A formal examination will be held at the end of the year for the full-time course and at the end of two years for the part-time course. One paper in the specialist option will be taken and assessment marks attained during the course will be included with the final examination mark. To achieve a pass, students will be required to have achieved a satisfactory standard in the examination, the portfolio and the project.

7. **Course Co-ordinators:** Professor Thomas R. Rogers (T.C.D.); Dr Celine Herra and Dr Steve Meaney (D.I.T.)
1. **Introduction:** The aim of this course is to provide multidisciplinary training in neuroscience topics ranging from molecular to behavioural, to students wishing to develop specialised knowledge and practical expertise in the Neurosciences. The course will appeal to biology graduates that already have a basic understanding of nervous system function, and to psychology graduates whose primary degree was not biology based. The course will also be of interest to those with medical training and want to diversify into research. The course is intended to equip participants with the skills necessary to progress into a career in biomedical, pharmaceutical or neuropsychological research, or to embark on a doctoral research programme.

2. **Admission requirements:** To be eligible for admission, candidates must hold a third level qualification. Application for admission will be accepted, subject to availability, from candidates who have a degree in Biological Science, Psychology, Medicine or Allied Health Sciences. Normally candidates should have achieved at least an upper-second class Honors Bachelor degree or its equivalent.

3. **Duration:** One-year, full-time or two-years, part-time.

4. **Course Structure:** During the Michaelmas and Hilary Terms, students will take a series of lectures, laboratory sessions, seminars and workshops, involving approximately 200 contact hours. Each student will conduct a laboratory-based research project of three months (full-time) or six months (part-time) duration which will be supervised by a member of academic staff. The M.Sc. carries 90 ECTS, and is comprised of the following modules:

   - Six Core Modules
   - Statistics and Bioinformatics (5 credits)
   - Experimental Skills (5 credits)
   - Experimental Neuroscience (5 credits)
   - Literature Review (5 credits)
   - Biochemical Basis of Neuropharmacology (5 credits)
   - Research Project (30 credits)

   And select seven of the following eleven:
Form and Function of the Nervous System (5 credits)
Neuropharmacology (5 credits)
Drug Development (5 credits)
Neuroimmunology (5 credits)
Chronic Pain (5 credits)
Neural Engineering (5 credits)
Neuroimaging (5 credits)
Receptor Topics in Neuroscience (5 credits)
Cellular Neuroscience (5 credits)
Journal Clubs (5 credits)
Clinical Research in Neuroscience (5 credits)

5. Assessment:

For full-time and part-time students, taught modules will be assessed by examination papers at the end of Michaelmas or Hilary Term, together with in-course assessments. Supplemental examinations will be required where less than 30% is achieved in the examination. No supplemental examinations will be allowed for in-course assessments. Compensation will be allowed between modules, provided that more than 30% has been obtained in the failed module(s) and sufficient marks exist in other modules for an overall mark of at least 50%. Marks for the research project/dissertation are final. No compensation will be permitted between the taught modules and the research project/dissertation. The research project will be assessed by dissertation (normally not more than 25,000 words).

To qualify for the award of the M.Sc. in Neuroscience, students must pass taught modules amounting to 60 credits and achieve an average mark of at least 50% across the taught modules as well as in the research project/dissertation. The award of a Masters with Distinction shall require the achievement of a distinction (70% or above) for the project/dissertation, and an overall average mark for the course of at least 70%. A distinction cannot be awarded if a candidate has failed any module during the period of study.

If a student does not pass the project/dissertation, but successfully passes the taught components amounting to 60 credits, a Postgraduate Diploma will be awarded. Students who, in addition, have achieved an overall average mark of at least 70% will be eligible for consideration for the award of Postgraduate Diploma with Distinction. A Postgraduate Diploma with Distinction cannot be awarded if a candidate has failed any module during the period of study.

6. Course Director: Professor Kumlesh Dev
Occupational Therapy (M.Sc.)

1. **Introduction:** This course is offered in the School of Medicine by the Discipline of Occupational Therapy.

2. **Aim:** This course is aimed at developing occupational therapists' critical thinking skills in the area of occupational therapy theory, evidence-based practice and research knowledge and skills. The overall purpose of the course is to develop students' professional knowledge and facilitate advancement of their professional practice.

3. **Admission requirements:** Candidates will require a good recognised Honors Bachelor degree (upper-second class honors or above) in occupational therapy or a recognised qualification in occupational therapy (*i.e.* Diploma in Occupational Therapy). Applicants without an occupational therapy degree must satisfy the course committee that they have the ability to complete and benefit from the course, and will be required to produce evidence of further study.

4. **Duration:** The course is offered on a one-year, full-time, or two-year, part-time, basis depending on student enrolment.

5. **Course Structure:** The M.Sc. carries 90 ECTS credits and is comprised of five core modules (60 credits) and a dissertation (30 credits):

   - Advanced Occupational Therapy Theory 1 (10 credits)
   - Advanced Occupational Therapy Theory 2 (10 credits)
   - Occupational Science (10 credits)
   - Evidence Based Practice (10 credits)
   - Research Management and Pragmatics (10 credits)
   - Qualitative Research Methods (5 credits)
   - Quantitative Research Methods (5 credits)
   - Dissertation (30 credits)

6. **Examination and assessment:** Students will be assessed by assignments and project work set by the co-ordinators of the various modules within the course. In the event
of failure of any one assignment the student must re-submit the assignment(s) in question in the manner and at the time determined by the Court of Examiners. A satisfactorily re-submitted assignment will be awarded a passing grade. Students who fail a re-submitted assignment will be excluded from any further participation in the course by the Dean of Graduate Studies who will act in consultation with the Course committee and on the advice of the Course Co-ordinator. Students will be required to complete a dissertation of approximately 20,000 words.

7. **Course Co-ordinator:** Professor Deirdre Connolly

**Pharmaceutical Medicine (M.Sc.)**

1. **Introduction:** The M.Sc. course is administered by the Department of Pharmacology and Therapeutics, School of Medicine. It has been developed to provide medical and science graduates with specialist knowledge and skills in the area of pharmaceutical medicine. Intake is on an annual basis. There is a separate entry for the Postgraduate Diploma in Pharmaceutical Medicine.

2. **Admission:** Prospective students for this course must hold a primary degree in either medicine or another relevant health or science subject. Candidates should have a minimum of two years’ practical experience in their area of qualification/pharmaceutical industry.

3. **Course Structure:** The course involves completion of twelve taught modules (60 credits) and the additional undertaking of a research and dissertation module (30 credits). The taught modules are as follows:

   - Principles of discovery of medicines and development planning (5 credits)
   - Non-clinical testing, pharmaceutical and early clinical development (5 credits)
   - Exploratory and confirmatory clinical development (5 credits)
   - Clinical Trials (5 credits)
   - Regulatory affairs, drug safety and pharmacovigilance (5 credits)
   - Healthcare marketplace; economics of healthcare (5 credits)
   - Drug safety: Pharmacoepidemiology, pharmacovigilance and risk management (5 credits)
   - Biologicals and advanced therapies (5 credits)
Special populations: clinical trial practice and regulation (5 credits)
Medicines regulation (5 credits)
Health Economics (5 credits)
Project management in medicines development (5 credits)

The modules consist of formal teaching sessions and personal assignments and are run over 18 months on a part-time basis. Some of the modules are undertaken by way of distance learning. In the research module, students undertake a research project (including field work), and submit a dissertation by the end of the second year of the course.

4. **Course Assessment:** For the taught modules, students are assessed by way of continuous assessment of personal assignments and written examinations. Students must pass all modules taken in the first year in order to be permitted to proceed to the second year of the course. Students who fail to pass taught modules may present for supplemental examination or re-submit required work as appropriate within the duration of the course.

To qualify for the award of the M.Sc., students must achieve an overall mark of at least 50% which will be the credit-weighted average of all modules including the research project/dissertation, and must pass outright or by compensation taught modules amounting to 60 credits and achieve a mark of at least 50% in the research project/dissertation. Students may compensate failed modules accounting for not more than 10 credits provided that they achieve an overall average of at least 50% across taught modules, pass taught modules amounting to at least 50 credits and get a mark of no less than 45% in the failed module(s).

The dissertation should be submitted and examined in line with the General Regulations for Taught Graduate Courses stated in Part B (Section 3) of the University of Dublin Calendar Part 2 for Graduate Studies and Higher Degrees for a given year. The award of a Masters with Distinction shall require the achievement of a distinction (70% or above) for the dissertation, and an overall average mark for the course of at least 70%. A Distinction cannot be awarded if a candidate has failed any module during the period of study.

Students who have successfully passed each of the taught modules of the course and accumulated 60 credits but who have failed the dissertation will be considered for a Postgraduate Diploma (exit award).

5. **Location:** Trinity Centre for Health Sciences,
St James’s Hospital, Dublin 8.
6. **Course Director:** Professor Mary Teeling
   **Course Co-ordinator:** Professor Mary Jo MacAvin

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### Physical Sciences in Medicine (M.Sc./P.Grad.Dip.)

1. **Introduction:** This course offers the academic training required for a career in scientific support of medical procedures and technology. The course is offered in the Faculty of Health Sciences and is co-ordinated through the Medical Physics Departments in St. James’s Hospital and St. Luke’s Hospital, Dublin.

2. **Duration:** One-year full-time or two-years part-time.

3. **Course Structure:** The course is delivered as lectures, demonstrations, seminars, practicals and workshops.

   All students must take a Core Track. This Core Track delivers the fundamental and generic knowledge by professionals working in the area of Medical Physics / Clinical Engineering. Upon completion of this, the student then takes one of three Specialisation Tracks in Diagnostic Radiology, Radiation Therapy or Clinical Engineering. The running of each of these tracks is subject to a minimum number of students taking each track. In parallel with the taught components, the student undertakes a dissertation. A pass mark in all three required sections (Core Modules, Specialisation Track modules and Dissertation) will result in the awarding of M.Sc. in Physical Sciences in Medicine. If the student does not pass the dissertation component but successfully passes the taught modules, the award of Postgraduate Diploma will be awarded.

**Core Modules:**

- Basic Medical Sciences (5 credits)
- Imaging Physics and Technology 1 (5 credits)
- Introduction to Radiotherapy and Non-Ionising Imaging (5 credits)
- Introduction to Radiation Protection and Radiation Physics (5 credits)
- Scientific skills for the Medical Physicist / Clinical Engineer (10 credits)
- Medical Technology and Information Systems (5 credits)

**Specialisation Track Modules (Diagnostic Radiology):**
Imaging Physics and Technology 2 (10 credits)
Ionising and Non-Ionising Radiation Protection (5 credits)
Medical Informatics and Image Processing (5 credits)
Radiation Physics and Dosimetry (5 credits)
Specialisation Track Modules (Radiation Therapy):
Dosimetry for Radiation Therapy (5 credits)
Radiobiology and Radiation Protection in Radiotherapy (5 credits)
Radiotherapy Equipment and Quality Assurance (5 credits)
Treatment Planning and Dose Calculations (5 credits)
Specialisation Track Modules (Clinical Engineering):
Human Medical Device Interface (5 credits)
Medical Informatics and Equipment Management (5 credits)
Medical Technology 1: Critical Care (5 credits)
Medical Technology 2: Interventions, Therapeutics and Diagnostics (5 credits)
Principle & Practice of Medical Technology Design, Prototyping & Testing (5 credits)
Project Work and Dissertation (30 credits)

4. **Assessment:** The Core Module and Specialisation Track modules are assessed by means of written examinations and assignments. General College regulations apply with regards to examinations and coursework. The student must pass all examinations and assignments. The pass mark for examinations and assignments is 50%. Supplemental examinations and assignments will be available for those students that fail any of the components up to a maximum of 50% of the total number of components. A dissertation relevant to the applications of Physical Sciences in Medicine must be submitted and passed as assessed by an external examiner.

Both components (taught modules and dissertation) must be passed for the degree of Masters in Physical Sciences in Medicine to be awarded. No compensation between these two elements is available. Successful completion of the course work (i.e. a pass in all taught modules), but not the dissertation, will result in a Postgraduate Diploma being awarded to the student. An external examiner monitors the assessment process.

5. **Location:** The course is taught primarily at the Trinity Centres for Health Sciences at St. James’s Hospital; the Education Centre, Adelaide and Meath incorporating the National Children’s Hospital, Tallaght; and the Education Centre, St. Luke’s Hospital. Some lectures
and practicals/demonstrations are held in St. James's Hospital or other hospitals and institutions as appropriate.

6. **Course Director:** Professor Gerard Boyle
   
   **Course Co-ordinator:** Professor Tim Foran

7. **Module Leads:**

   **Core Track:** Professor Neil O'Hare
   
   **Diagnostic Track:** Professor Geraldine O'Reilly
   
   **Radiotherapy Track:** Professor Brendan McClean
   
   **Clinical Engineering Track:** Mr Fran Hegarty

   **Psychoanalytic Psychotherapy (M.Sc./P.Grad.Dip.)**

1. **Introduction:** This is a two year course in psychoanalytic psychotherapy, conducted as a part of a four year training programme in psychoanalytic psychotherapy. The course provides students with a comprehensive account of psychoanalytic systems as they have developed from the work of Sigmund Freud to the current time. The course provides a comprehensive conceptual and critical understanding of the theoretical basis of psychoanalytic psychotherapy, as well as a thorough training in the application of psychoanalytic theory to psychoanalytic clinical practice.

2. **Aim:** The central aim of this course is to provide students with the theoretical basis for training in adult psychoanalytic psychotherapy and child and adolescent psychoanalytic psychotherapy. The course provides a thorough training in psychoanalytic theory from Freud through Klein, Bion, Winnicott, and the Independent Tradition, while strongly emphasising the aspect of clinical training with adults.

3. **Admission Requirements:** Applications are invited from candidates who are graduates of recognised University courses, with a first class or second class Honors Bachelor degree from a recognised Institution.

4. **Duration:** The course is offered on a part-time basis over two years.
5. **Course Structure:** The course is two years in duration part-time and carries a total of 90 ECTS credits. Teaching will take place mostly during the two College terms in Year 1 and Year 2. Teaching will take place on Tuesday evenings and all day Wednesday during term. Some teaching also takes place on an irregular basis out of term in order to support the Infant Observation module and in relation to the ongoing clinical components of the programme. Students continue their personal therapy out of term as well as in term. The course taught modules are as follows:

Module 1: Theoretical Frameworks I (10 credits)
Module 2: Infant Observation I (10 credits)
Module 3: Infant, Child & Adolescent Development (10 credits)
Module 4: Clinical Concepts (5 credits)
Module 5: Infant Observation II (10 credits)
Module 6: Theoretical Framework II (10 credits)
Module 7: Clinical Practice (5 credits)
Module 8: Research (30 credits)

Modules 1 to 4 are completed in the first year of the course, with modules 5 to 8 being completed in the second year of the course.

6. **Assessment:** Academic assessment will be based on essays, in-class written assessments, and a dissertation of 12,000 – 15,000 words. Students must pass all modules taken in Year 1 in order to proceed to Year 2 of the course.

Students who pass each of the taught modules and the dissertation are eligible for the award of M.Sc. in Psychoanalytic Psychotherapy. Students who pass each of the modules but do not complete the dissertation will be awarded the Postgraduate Diploma in Psychoanalytic Psychotherapy.

7. **Course Director:** Professor Michael Fitzgerald

**Course Co-ordinator:** Professor John O'Connor

Respiratory Physiotherapy (M.Sc./P.Grad.Dip.)
1. **Introduction:** The aim of this course is to develop physiotherapists' knowledge and skills in the physiotherapy management of the patient with respiratory disorders and to objectively evaluate their practice through research.

2. **Admission:** Suitable candidates for the course will be Physiotherapists with a relevant undergraduate degree leading them to be eligible for membership of the Irish Society of Chartered Physiotherapists.

3. **Location:** The course will be mainly based in the Trinity Centre for Health Sciences, St James's Hospital and in the Clinical Physiotherapy Department in St James Hospital.

4. **Course Content:** The course will take place on a two year part-time basis and will include the following modules:

   - Cardiovascular and Respiratory Physiology (10 credits)
   - Exercise Prescription (10 credits)
   - Clinical Exercise Prescription (5 credits)
   - Research Methods and Statistics (10 credits)
   - Physiotherapy in Respiratory Medicine (10 credits)
   - Clinical Practice in Respiratory Physiotherapy (15 credits) and
   - Research Dissertation (30 credits)

   Students who wish to complete the requirements for the award of Postgraduate Diploma (60 credits) will do all modules except the Research Dissertation.

5. **Assessment:** Students must achieve 50% in each module of the course, including the dissertation, to fulfil the criteria for the award of the M.Sc. in Respiratory Physiotherapy. Students will be required to complete a research dissertation of approximately 12,000 words. This research project will be carried out in the second year. Each student will be assigned a supervisor whom they will meet with at regular intervals. The student will be required to submit a research proposal and an ethics application prior to commencing the data collection. At the end of this module the student will present their research findings in a dissertation format and paper format. The dissertation will follow the following format: Literature review, Research Methodology, Results, Discussion. The student will also submit a report of the research in a paper format of no more than 3,500 words. Candidates for the Postgraduate Diploma must achieve 50% in all modules to fulfil the criteria for the award.
6. **Course Director:** Professor Juliette Hussey

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**Sports and Exercise Medicine (M.Sc.)**

1. **Introduction:** This course is offered in the Faculty of Health Sciences by the Department of Anatomy (Human Performance Laboratory). The course is specifically designed for qualified medical doctors and chartered physiotherapists who have a keen interest in sports, particularly those who are currently involved in sport. The aims of this course are:

   1. To present a scientific basis for the study of all aspects of Sports and Exercise Medicine
   3. To define guidelines for the scientific monitoring and training of athletes.
   4. To enable participants to identify practices for various age groups.
   5. To expose participants to a wide range of specialities relevant to sport and exercise.

2. **Admission Requirements:** Applicants should be well-qualified medical graduates, and chartered physiotherapists (minimum upper-second class Honors Bachelor degree) with minimum one year’s post qualification experience. Selection will be made by *curriculum vitae* in early May of year of entry.

3. **Duration:** The course is of one year’s duration, full-time, five days a week during the three terms of the year.

4. **Course Structure/Content:** The topics dealt with in the course are: acute injuries, basic exercise biochemistry, cardiology, clinical anatomy, computer applications in data analysis, dermatology, dentistry, exercise physiology, ear, nose, throat, emergency medicine (including CPR), individual sports, medical records, ophthalmology, orthopaedics, paediatrics, pharmacology, physiotherapy, podiatry, psychology, radiology, respiratory physiology, resistance training, sports nutrition, sports equipment, statistics and women in sport.

The M.Sc. carries 90 ECTS credits, and comprises the following modules:
Basic and Clinical Anatomy (10 credits)
Sports and Exercise Physiology (10 credits)
Scientific Research, Design and Data handling (10 credits)
Sports and Exercise Medicine (10 credits)
Clinical examination, clinical skills and sports clinics (10 credits)
Basic and Clinical Anatomy (10 credits)
Research Project (30 credits)

5. **Assessment:** Modules are assessed by in-course and official end of term examinations consisting of:

(a) Written examination – Multiple Choice Questions and Short Answer Questions
(b) Practical examinations – competence in musculoskeletal examination techniques, clinical cases, athletic assessment.

All modules must be passed (>50%). There is no compensation between written papers and clinical examination. The dissertation can only be undertaken when the taught modules have been completed successfully. The degree is externally monitored and examined.

6. **Honorary Course Director:** Professor Moira O’Brien

7. **Course Co-ordinators:** Professor Nicholas Mahony and Mr Bernard Donne

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**M.Sc. in Translational Oncology (M.Sc./P.Grad.Dip)**

1 Introduction

The M.Sc. in Translational Oncology will give both scientists and clinicians an in-depth understanding of the theoretical and practical aspects of the causes and treatment of cancer. This course explores the cellular, molecular and genetic basis of cancer and will cover both the scientific and clinical challenges pertinent to the management of tissue-specific cancers. All aspects of cancer treatment from diagnostic imaging, to standardised and ‘individualised’ molecular targeted therapies will be explored. All students will undertake a three month research
project in a designated oncology research laboratory, where they will receive training in cellular and molecular oncology research.

2 Admission requirements

This M.Sc. in Translational Oncology is open to both scientific and clinical graduates. This is a one year full-time course. Scientific, dental or equivalent candidates must have a minimum of a 2.1 honours Bachelor degree in any biologically-related discipline. Medical graduates must have a MB, BCh, BAO or equivalent from a recognised medical school. All applicants should provide two academic or clinical references confirming their eligibility and suitability for the course, before their application can be considered. Applicants should also include a 500 word personal statement addressing why they are interested in the course, their suitability for the course and how it will impact on their future career development. Applications for admission to the course will be made through the online system normally not later than June 30th. Late applications will be considered provided places are available.

3 Duration: 1 year full-time

4 Course structure:

Students will be required to complete twelve taught modules (5 ECTS each) and a research project with dissertation worth 30 ECTS. All core modules are compulsory:

- 1. Cellular and molecular basis of cancer
- 2. Site-specific cancers: Scientific and clinical perspectives
- 3. Tumour Immunology
- 4. Radiation, chemotherapy and molecular targeted therapies
- 5. Cancer epigenetics, gene regulation and stem cells
- 6. Molecular pathology and diagnostic imaging
- 7. Clinical statistics and medical ethics
- 8. Molecular oncology research skills
9. Research project and dissertation

Students will choose four of six optional modules (5 ECTS each)

- 10. Obesity, metabolism and physical activity
- 11. Drug development from discovery to commercialization
- 12. Therapeutic targeting of cellular instability in childhood and adult cancers
- 13. Tumour microenvironment
- 14. Clinical pharmacology and therapeutic toxicity
- 15. Pediatric and surgical oncology and health economics

5 Assessment of modules (component weightings inclusive of assessment, where relevant)

a) Core modules 1, 2 and 4 will be assessed by way of multiple choice questions (20%) and a single 2 hour written exam (80%) at the end of the Michaelmas term. Module 3 will be assessed by a short question exam (50%) and group assessment (50%), module 5 will be assessed by short question exam (60%) and an essay (40%) and module 6 will be assessed by written assignments (40%) and a short question exam (60%).

b) Core module 7 will be assessed in two parts, the first part will be assessed by a 1 hour MCQ statistics exam and a case study (50%). The second part of core module 7 on ethics will be assessed by way of a class debate (50%).

c) Core module 8 will be evaluated by written assignments (33%) and a short question exam (33%) based on the seven practical sessions, in addition to a group poster presentation (34%).

d) In terms of module overall weighting, all the core modules contribute equally to the final award of the M.Sc. in Translational Oncology, namely 5.5% each.

e) The optional modules will be assessed by way of a 2 hour written exam (80%) and 1500 word brief report (20%).

f) In the calculation of the overall mark for the course, modules are weighted according to their ECTS credit value Accordingly, 40 ECTS will be allocated to assessments of the 8 core modules, 20 ECTS for the optional modules and the remaining 30 ECTS will be allotted to the literature review, presentation and dissertation based on the research project (module 9), which will carried out in the Hilary and Trinity terms respectively.
Supplemental examinations for modules 1-6 and 10-15 will be in the form of a written exam that will account for 100%. Final grades for modules requiring a supplemental will be capped at 50%.

6 Assessment of dissertation (submission requirements, weighting and a pass level)

The research and dissertation module (module 9) will account for one third of the overall mark. This will include 25% for the research dissertation, 5% for a literature review and 4% for research project oral presentation. The dissertation will be based on a laboratory research project. The dissertation should not exceed 15,000 words (excluding appendices). The dissertation will be assessed by external review and the student may be required to attend for interview (viva voce) to discuss the dissertation. This literature review will be no more than 5,000 words and will be assigned by the laboratory supervisor. At the end of their research placement, all students will be required to present the findings of their research project to the course director and module co-ordinators. Students will be graded on critical thinking, research design, data presentation and analysis.

7 Course Assessment

a) Pass/Fail: Each module, including the dissertation, must be passed independently at a minimum of 50%. The final mark for each module will be the average mark derived from each of the assessment types (i.e. personal assignments and examinations). The written examination must be passed independently to pass the module.

b) Failure of a written personal assignment / examination:

(i) In cases where students fail to achieve a minimum of 50% in a written assignment, a resubmission will be permitted with a deadline for resubmission of 3 weeks from the publication of the initial results. Only one resubmission will be allowed, and the maximum mark awarded for the resubmitted assignment is 50%.

(ii) Students, who fail to achieve a minimum of 50% in a written examination, will be permitted to repeat that examination during the appropriate supplemental examinations. Students will only be allowed to repeat the examination on one occasion and the maximum mark awarded for the supplemental examination is 50%.

c) Failure of a module.

(i) Students who fail these modules in the Michaelmas term examinations will have the opportunity to re-sit these examinations in the Hilary Term. (ii) Modules 7 and 8 are taught in Hilary and Trinity terms and will be assessed during these terms. Any students failing any of the modules 10-15 will be able to repeat these examinations in July.
d) **Compensation.**
Students who fail a core or optional module but obtain 40% or more may compensate with another module examination of the same format in the same term, up to a maximum of 10%. A student may only compensate two exams in the full academic year. No compensation is allowed for research dissertation.

e) **Dissertation:**
To begin the research project, students must have completed the taught elements for both terms. The dissertation module must be passed. Compensation is not possible for the dissertation; neither can the dissertation be used to compensate for any of the taught modules. In cases where students fail to achieve a minimum of 50% in the literature review, a resubmission will be permitted with a deadline for resubmission of 3 weeks from the publication of the initial results.

8 **Progression**
a) All students registered on the M.Sc. programme must successfully pass all taught modules. The Court of Examiners will meet to moderate examination marks related to the course and all the results obtained by the students, prior to the final publication of results.

b) Students who have successfully passed the twelve taught modules of the course and accumulated 60 ECTS but who do not wish to proceed to the dissertation stage, or if they have submitted but then failed the research project and dissertation, will be considered for a Postgraduate Diploma in Translational Oncology (exit award).

c) Students who have achieved an overall average of at least 68% in the unrounded overall average mark for the taught modules, where modules amounting to at least half of the credits attaching to the taught modules each have a mark of at least 70% (30 ECTS), but who do not wish to proceed to the dissertation stage will be eligible for consideration for the award of Postgraduate Diploma in Translational Oncology with Distinction. Students must have achieved at least 70% in each of 6 taught modules to be eligible. The Postgraduate Diploma with Distinction cannot be awarded if a candidate has failed any module during the period of study.

d) A Masters dissertation will be submitted and examined in line with the General Regulations for Taught Graduate Courses stated in Part B (Section 3) of the University of Dublin Calendar part 2 for Graduate Studies and Higher Degrees for a given year. To qualify for the award of the MSc. in Translational Oncology students must achieve an overall mark of at least 50% which will
be the credit weighted average of all modules including the research project/research
dissertation, must pass taught modules amounting to 60 credits and achieve an average mark of
at least 50% across the taught modules as well as in the research project/dissertation.
e) The award of a Masters with Distinction shall require the achievement of at least 68% in the
unrounded overall average mark for the taught nodules, where modules amounting to at least
half of the credits attaching to the taught modules each have a mark of at least 70% (30 ECTS)
and at least 70% from the research dissertation. A distinction cannot be awarded if a candidate
has failed any module during the period of study.

**Course location:** Trinity Centre for Health Sciences, St. James’s Hospital,
Dublin 8

**Course director:** Dr. Graham Pidgeon

**Course co-ordinator:**

- Dr. Joanne Lysaght
- Dr. Jacintha O’Sullivan

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**School of Dental Science**

Clinical Dental Technology (P.Grad.Dip.)

1. **Introduction:** This course is offered in the Faculty of Health Sciences by the School of
Dental Science.

2. **Admission Requirements:** Applicants for the award of P.Grad.Dip. in Clinical Dental
Technology must have a recognised qualification in dental technology with at least three
years relevant experience. The course of study will be 18 months part-time. A student is
required to attend a course of study and to pass written and clinical examinations. The aim of the course is to provide an educational programme that will equip the student with the knowledge and experience to safely and effectively treat patients on graduation to the highest national and international standards.

Students must produce an acceptable hepatitis B virus infection result (i.e. negative HBsAg or in the presence of a positive HBsAg, negative HBeAg and negative HBV-DNA) and a negative hepatitis C antibody test (or, if positive a negative PCR test for hepatitis C RNA) carried out not more than six months prior to entry, before being permitted to register with the College. International students are advised to undergo testing in their home country and to forward the result to the Dental School Office as soon as possible thereafter. The College reserves the right to re-test prior to admission. Students admitted to this course who are not already deemed to be immune to hepatitis B will be required to undergo a course of vaccination. Details of vaccination programmes may be obtained on request from the Dental School Office. If Irish law, or regulatory practice, changes between the date of publication of this documentation and the date of registration for new entrants to this course, Trinity College reserves the right to require that the criteria adopted by law and/or regulation in relation to the ability to practice clinically in Ireland be satisfied before registration is permitted. All costs associated with tests for infectious diseases and vaccination must be met by the student.

Registered students must remain free of any life threatening infectious condition that could be transmitted to a patient or fellow health worker. Such conditions include, but are not limited to, HIV, hepatitis B, hepatitis C, pulmonary tuberculosis, chickenpox and measles. In the event of a student becoming aware of such a condition they should consult their medical advisor. In addition students must advise the Dental School and shall refrain from further patient contact until cleared medically.

Students are required to undergo vetting by the Garda Síochána or other relevant police force. If, as a result of the outcome of these vetting procedures a student is deemed unsuitable to attend clinical or other professional placements he/she may be required to withdraw from his/her programme of study. Further details and procedures are available from the Academic Registry (Graduate Studies) and from the Dental School office.

For, applicants whose first language is not English and who have not been educated through the medium of English the requirements in Section 1.5 apply, except that the minimum acceptable IELTS score is 7.0 with no individual band below 7.

3. Course Structure: The Postgraduate Diploma in Clinical Dental Technology carries 70 ECTS credits, and comprises the following modules:

Dental Occlusion (10 credits)

Dental Anatomy and Clinical Oral Physiology (10 credits)

Dental Materials Science (5 credits)

Edentulous State (20 credits)
Removable Partial Dentures (10 credits)

The Clinical Environment (5 credits)

Health and Safety (5 credits)

Case Preparation and Presentation (5 credits)

In addition to the course of study and examinations, a student must complete clinical competencies and submit patient presentations. The Postgraduate Diploma in Clinical Dental Technology is awarded on passing all components of the course.

A student whose progress is unsatisfactory either academically or clinically, may be excluded from any further participation on the course at any time by the Dean of Graduate Studies, who will act in consultation with the Dean of Dental Affairs and the Director of Teaching and Learning (Postgraduate) of the School of Dental Science on the advice of the appropriate Head of Division and the Course Director.

4. **Assessment:** The pass mark for all assessments is 50%. Candidates will be assessed throughout the course by (i) written examination, including assignments; (ii) course work; (iii) presentation; and (iv) professional practice portfolio / log book.

   Portfolio: The students must complete a reflective portfolio to include a logbook of all cases with which they are involved in either assessment or treatment, which is submitted and marked as part-requirement before sitting the final examination.

   Professional Practice: Professional skills and practice are an integral part of the course and allow the students to consolidate theory and practice. The placements for these clinical sessions take place in the Dublin Dental University Hospital. Students will complete 80 clinical sessions.

   Clinical practice assessment and presentation: Students undertaking the Postgraduate Diploma in Clinical Dental Technology are required to undertake clinical competency assessments; each competency will be clearly documented and be signed by the clinical supervisor and will take place when the student has had the opportunity to practice the techniques on a number of cases. All students will be required to present patient cases to their peers and teaching staff twice during their course. All competencies must be successfully completed before the final examination is attempted. Arrangements will be made for the student to repeat the competency within two months if a pass is not achieved.

End of First Year Assessment: This assessment will take place in week 4 of Trinity Term of the first year. Students who fail to achieve a pass mark (50%) in each SCOT station must re-sit each failed SCOT station at the end of Trinity Term. In order to obtain credit and rise with their class a student must achieve all of the following:

   An overall pass mark (50%) in each of the written assessments.
A minimum mark of 50% in the standard-set OSCE.
Satisfactory completion of all the competences for the year.
Satisfactory completion of all the assignments for the year.
A satisfactory level of attendance.

Final Examination: The final examination will consist of two parts with each allocated 50% of the total marks.

PART 1: Three written examination papers and continuous assessment.
Paper I – Edentulous and Partially Dentate State.
Continuous Assessment- essays and assignments.

PART 2: Case presentation 5%, Portfolio 10%, unseen patients 15%, OSCE 20%

No compensation will be allowed between Part I and Part II; however compensation will be allowed between components within each part. A student who fails Part 1 or Part 2 of the final examination may, at the discretion of the Court of Examiners, sit a supplemental assessment of all the components of the failed part(s). The supplemental final examination will take place three months after the final examination took place.

The Clinical Log Diaries must be submitted to the Course Administrator by the specified deadline and a pass mark must be achieved in order to progress to the final examination.

The Postgraduate Diploma will be awarded with Distinction if an overall average mark >70% is obtained.

5. Attendance: Satisfactory attendance at all aspects of the course is compulsory. A student who misses more than 4 sessions (tutorial, laboratory) in any term without medical certification or submission of a completed leave-of-absence form will be reported by the Dental School to his/her College Tutor. Medical certificates must be submitted to the Dental School Office within two working days of returning from illness. An unsatisfactory explanation from the Tutor will result in that student being deemed to be Non Satisfactory for that term. Any student being recorded as Non-Satisfactory for two terms in a year will be reported to the Course Director and may be precluded from completing the assessment for the year and will be required to repeat that year without supplemental. Students who are absent from
clinical or laboratory sessions may be required to make up these sessions during the Remedial Period, irrespective of the reason for the absence. The need to make up for missed sessions will be determined by the Course Director in consultation with the Head of Division. The student will be advised of the need to attend during the Remedial Period as soon as the decision is taken.

6. Course Director: Professor Brendan Grufferty

Clinical Dentistry (P.Grad.Dip.)

1. Introduction: This course is offered in the Faculty of Health Sciences by the School of Dental Science.

2. Aims: This course aims to update dental practitioners by teaching the academic basis and practical skills required for contemporary dental practice in the light of recent innovations and changes.

3. Admission Requirements: Practitioners are required to hold an Honors Bachelors Degree in Dental Science or its equivalent, be fully registered with the Dental Council and should ideally have three years or more recognised experience in postgraduate dental practice. Furthermore, they should possess their own professional indemnity insurance.

Students must produce an acceptable hepatitis B virus infection result (i.e. negative HBsAg or in the presence of a positive HBsAg, negative HBeAg and negative HBV-DNA) and a negative hepatitis C antibody test (or, if positive, a negative PCR test for hepatitis C RNA) carried out not more than six months prior to entry, before being permitted to register with the College. International students are advised to undergo testing in their home country and to forward the result to the Dental School Office as soon as possible thereafter. The College reserves the right to re-test prior to admission. Students admitted to this course who are not already deemed to be immune to hepatitis B will be required to undergo a course of vaccination. Details of vaccination programmes may be obtained on request from the Dental School Office. If Irish law, or regulatory practice, changes between the date of publication of this documentation and the date of registration for new entrants to this course, Trinity College Dublin reserves the right to require that the criteria adopted in relation to the ability to practise clinically in Ireland be satisfied before registration is permitted. All costs associated with tests for infectious diseases and vaccination must be met by the student.

Registered students must remain free of any life threatening infectious condition that could be transmitted to a patient or fellow health worker. Such conditions include, but are not limited to, HIV, hepatitis B, hepatitis C, pulmonary tuberculosis, chickenpox and measles.
the event of a student becoming aware of such a condition they should consult their medical advisor. In addition students must advise the Dental School and shall refrain from further patient contact until cleared medically.

Students are required to undergo vetting by the Garda Síochána or other relevant police force. If, as a result of the outcome of these vetting procedures a student is deemed unsuitable to attend clinical or other professional placements he/she may be required to withdraw from his/her programme of study. Further details and procedures are available from the Academic Registry (Graduate Studies) and from the Dental School office.

For, applicants whose first language is not English and who have not been educated through the medium of English the requirements in Section 1.5 apply, except that the minimum acceptable IELTS score is 7.0 with no individual band below 7.

4. **Duration:** Two years, part-time. The Postgraduate Diploma in Clinical Dentistry carries 70 ECTS credits.

The course consists of one core module, followed by six elective modules. Each module consists of eight, three-hour clinical and didactic sessions, run weekly over eight consecutive weeks. All students will have completed (at least) 150 contact hours of tuition. All efforts will be made to accommodate students in their chosen modules, but the school of Dental Science reserves a degree of flexibility according to demand.

5. **Course Structure:**

The compulsory core module (10 credits) covers:

Cross Infection Control in Contemporary Dental Practice

Interpretation of Scientific Data and Statistics

Critical Reading of the Literature

Medical Emergencies in Dental Practice (including CPR Practical)

Library Services and Orientation

An induction/orientation session in the hospital clinic including familiarisation with equipment and the School’s standing operational policies.

The optional modules offered are:

1. Adhesive Dentistry (10 credits)
2. Removable Prosthodontics (10 credits)
3. Fixed Prosthodontics (10 credits)
4. Periodontal Therapy (10 credits)
5. Endodontics (10 credits)
6. Oral Medicine (10 credits)
7. Dento-Alveolar Surgery (10 credits)
8. Paediatric Dentistry (10 credits)
9. Orthodontics (10 credits)
10. Special Care Dentistry (10 credits)
11. Dental Radiology (10 credits)

The course is open to a maximum of 40 students at any one time. Modules will run up to three times a year according to demand. The School reserves the right to offer alternative modules subject to staff availability in any given year.

6. Satisfactory Progress: Students whose progress is unsatisfactory either academically or clinically, may be excluded from any further participation in the course at any time by the Dean of Dental Affairs and the Dean of Graduate Studies, who will act in consultation with and on the advice of the Course Director.

7. Assessment: The pass mark for all assessments is 50%. Assessment of each module is by completion of clinical tasks (competencies), and by Objective Structured Clinical Examinations (OSCEs) at the end of each module. The assessment process is monitored by an external examiner. Students are awarded the Postgraduate Diploma on successful completion of the core module and their six elective modules. The course is taught in the Dublin Dental University Hospital.

8. Course Director: Professor Frank Quinn

   Director of Teaching and Learning (Postgraduate): Professor Ebrahim Al-Awadhi

Conscious Sedation in Dentistry (P.Grad.Dip.)

1. Introduction: This course is offered in the Faculty of Health Sciences by the School of Dental Science.

The course of study is 18 months part-time. Students are required to attend a course of study and to pass written and clinical examinations. The aim of the Postgraduate Diploma in
Conscious Sedation in Dentistry is to provide an educational programme that will equip dentists with the knowledge and experience to safely and effectively use conscious sedation techniques in their own clinics to the highest national and international standards both safely and independently. The course also aims to develop an ability to critically analyse professional literature.

2. **Admission Requirements:** Applicants for the award of P.Grad.Dip. in Conscious Sedation must have held a recognised degree in dentistry for at least two years. Students must produce an acceptable hepatitis B virus infection result (i.e. negative HBsAg or in the presence of a positive HBsAg, negative HBeAg and negative HBV-DNA) and a negative hepatitis C antibody test (or, if positive, a negative PCR test for hepatitis C RNA) carried out not more than six months prior to entry, before being permitted to register with the College. International students are advised to undergo testing in their home country and to forward the result to the Dental School Office as soon as possible thereafter. The College reserves the right to re-test prior to admission. Students admitted to this course who are not already deemed to be immune to hepatitis B will be required to undergo a course of vaccination. Details of vaccination programmes may be obtained on request from the Dental School Office. If Irish law, or regulatory practice, changes between the date of publication of this documentation and the date for registration of new entrants to this course, Trinity College reserves the right to require that the criteria adopted in relation to the ability to practice clinically in Ireland be satisfied before registration is permitted. All costs associated with tests for infectious diseases and vaccination must be met by the student.

Registered students must remain free of any life threatening infectious condition that could be transmitted to a patient or fellow health worker. Such conditions include, but are not limited to, HIV, hepatitis B, hepatitis C, pulmonary tuberculosis, chickenpox and measles. In the event of a student becoming aware of such a condition they should consult their medical advisor. In addition students must advise the Dental School and shall refrain from further patient contact until cleared medically.

Students are required to undergo vetting by the Garda Síochána or other relevant police force. If, as a result of the outcome of these vetting procedures a student is deemed unsuitable to attend clinical or other professional placements he/she may be required to withdraw from his/her course of study. Further details and procedures are available from the Academic Registry (Graduate Studies) and from the Dental School office.

For, applicants whose first language is not English and who have not been educated through the medium of English the requirements in Section 1.5 apply, except that the minimum acceptable IELTS score is 7.0 with no individual band below 7.

3. **Course Content:** The student will be required to attend for 11 teaching days and 20 clinical sessions. The main topics of are: Applied Biology Science, Professional Literature Appraisal, Clinical Skills and Medical Emergencies, Intravenous Conscious Sedation, Alternative Conscious Sedation Techniques, Legal issues and Pain Control. In addition to the course of study and examinations, a student must present an essay-based project on
professional literature review of a topic, clinical competencies and submit an essay-based project.

Two months prior to the completion of the course of study, a student must submit copies of the essay-project to the Course Director. A Postgraduate Diploma in Conscious Sedation in Dentistry is awarded on passing all components of the course. The Postgraduate Diploma carries 60 ECTS credits.

A student whose progress is unsatisfactory either academically or clinically, may be excluded from any further participation on the course at any time by the Dean of Graduate Studies, who will act in consultation with the Dean of Dental Affairs and the Director of Teaching and Learning (Postgraduate) of the School of Dental Science on the advice of the appropriate Head of Division and the Course Director.

Modules:
1. Applied Biology relevant to Conscious Sedation (10 credits)
2. Professional Literature Appraisal (10 credits)
3. Clinical Skills and Medical Emergencies (10 credits)
4. Intravenous Conscious Sedation (10 credits)
5. Anxiety Control and other conscious sedation techniques (10 credits)
6. Legislation, Ethics and Clinical Governance (5 credits)
7. Pain Control (5 credits)

4. **Assessment:** The pass mark for all assessments is 50%. Candidates will be assessed throughout the course by:

- Written examination
- Course work and essays
- Presentation
- Web-based tests
- Literature review project
- Professional Practice Placement /log book.

Continuous assessment: Each student is assessed on his or her theoretical and clinical skills.
Written examinations: The written assessments consist of multiple choice questions and short answer questions and are held throughout the course. A combined result of 50% is required in each module before the final examination can be attempted.

Logbook: The students must complete a reflective logbook of all cases with which they are involved in either assessment or treatment, which is submitted and marked as part-requirement before sitting the final examination.

Professional Practice: Professional skills and practice are an integral part of the course and allow the students to consolidate theory and practice. Clinical sessions take place in the Dublin Dental University Hospital (DDUH) and the National Centre for Hereditary Coagulation Disorders–(NCHC), St. James Hospital. Students undertaking the Postgraduate Diploma undertake 20 clinical sessions which have a direct contact time of approximately 80 hours.

Professional clinical practice assessment procedures: Students are required to undertake clinical competency assessment and complete a portfolio. The assessment of clinical competency focuses on specialist competency and on accumulated learning, which will be discussed on a one-to-one basis as part of these sessions. Each competency must be clearly documented and has to be signed by the clinical supervisor. Agreed learning outcomes are formulated, which outline the areas that will need to be reviewed. All competencies must be successfully completed before the final examination is attempted. Arrangement will be made for the student to repeat the competency within two months if a Pass is not achieved.

Final Examination: To sit the final examination the student must have passed the examinations as part of the continuous assessment and achieved a combined pass rate of 50%. In addition, all competencies, written assignments, clinical portfolio and presentations must have been passed. The final examination consists of written and oral sections. A written paper is of two hours’ duration comprising of multiple choice questions and short questions. The oral section comprises three orals of 30 minutes’ duration including literature appraisal, clinical skills and conscious sedation techniques.

A student who fails any part of the final examination, at the discretion of the Court of Examiners may sit a supplemental examination after the final examination to complete the course. Failure at the first attempt of a written assignment can be overcome with arrangements in place for a re-submission before the end of the first nine months.

The Clinical portfolio logbook must be handed into the Course Administrator one month before sitting the final examination for evaluation and marking, and this section must be passed in order for students to be permitted to proceed to the final examination.

5. **Classification of award:** The Diploma may be awarded with Distinction if an overall mark of ≥70% is obtained.

6. **Course Director:** Professor Leo FA Stassen
Dental Surgery (D.Ch.Dent.)

1. Introduction: This course is offered in the Faculty of Health Sciences by the School of Dental Science.

2. Admission Requirements: Applicants for the degree must have held a recognised degree in dentistry for at least two years and have documented evidence of having completed a period of general professional training, including one year in a recognised training post. Applicants are normally expected to possess an MFD/MFDS or equivalent. Students must produce an acceptable negative hepatitis B virus infection result (i.e. negative HBsAg or in the presence of a positive HBsAg, negative HBeAg and negative HBV-DNA) and a negative hepatitis C antibody test (or, if positive, a negative PCR test for hepatitis C RNA) carried out not more than six months prior to entry, before being permitted to register with the College. International students are advised to undergo testing in their home country and to forward the result to the Dental School Office as soon as possible thereafter. The College reserves the right to re-test prior to admission. Students admitted to this course who are not already deemed to be immune to hepatitis B will be required to undergo a course of vaccination. Details of vaccination programmes may be obtained on request from the Dental School Office. If Irish law, or regulatory practice, changes between the date of publication of this documentation and the date of registration for new entrants to this course, Trinity College reserves the right to require that the criteria adopted by law and/or regulation in relation to the ability to practice clinically in Ireland be satisfied before registration is permitted. All costs associated with tests for infectious diseases and vaccination must be met by the student.

Students are required to undergo vetting by the Garda Síochána or other relevant police force. If, as a result of the outcome of these vetting procedures a student is deemed unsuitable to attend clinical or other professional placements he/she may be required to withdraw from his/her programme of study. Further details and procedures are available from the Academic Registry (Graduate Studies) and from the Dental School office.

For applicants whose first language is not English and who have not been educated through the medium of English the requirements in Section 1.5 apply, except that the minimum acceptable IELTS score is 7.0 with no individual band below 7.

3. Duration: The course of study will be three years, full-time or five years, part-time.

4. Registered students must remain free of any life threatening infectious condition that could be transmitted to a patient or fellow health worker. Such conditions include, but are not
limited to, HIV, hepatitis B, hepatitis C, pulmonary tuberculosis, chickenpox and measles. In the event of a student becoming aware of such a condition they should consult their medical advisor. In addition students must advise the Dental School and shall refrain from further patient contact until cleared medically.

5. **Assessment:** A student is required to attend a course of study and to pass written clinical and research assessments in the specialist area chosen. Currently the specialist courses are: Oral Surgery, Orthodontics, Prosthodontics, Paediatric Dentistry, Periodontology and Special Care Dentistry. The student will also be required to attend a course in Advanced Dental Science common to all the disciplines courses. The main topics of the Advanced Dental Science Course are: Biomedical Sciences, Applied Scientific Method, Ethics and Behavioural Sciences.

In addition to the course of study and examinations, a student must present a thesis based on a piece of research in Dental Science or a cognate discipline carried out within the School of Dental Science by the candidate individually or as one of a research team. The contribution made by the student to group research activities must be clearly stated in the thesis and must be substantial.

The Director of Teaching and Learning (Postgraduate) of the School of Dental Science, on the advice of the appropriate Head of Division, will assign an academic Supervisor to each student for their research project.

By 31st August of the final year of the course of study, not later than three years (five years in the case of part-time students) a student must submit two bound printed copies of the thesis to the Dean of Graduate Studies. The student will normally be asked to attend a *viva voce* examination on the subject matter of the thesis.

A Professional Doctorate in Dental Science is awarded on passing all components of the course and successful submission of the completed thesis and a clinical audit. The pass mark for all assessments is 50%. The thesis will be graded on a pass/fail basis.

A student whose progress is unsatisfactory either academically or clinically, may be excluded from any further participation on the course at any time by the Dean of Graduate Studies, who will act in consultation with the Dean of Dental Affairs and Director of Teaching and Learning (Postgraduate) of the School of Dental Science on the advice of the appropriate Head of Division and the Course Director.

2.6. **Director of Teaching and Learning (Postgraduate):** Professor Ebrahim Al-Awadhi

*Dental Science (M.Dent.Sc.)*
1. **Introduction:** This course is offered in the Faculty of Health Sciences by the School of Dental Science.

2. A candidate for the degree of M.Dent.Sc. must:

1. Hold the degree of Bachelor in Dental Science of the University of Dublin, *or* hold the degree of Bachelor in Dental Surgery of the National University of Ireland, having trained at the University College Dublin, *or* hold the Licentiate in Dental Surgery of the Royal College of Surgeons in Ireland, *or*

2. Have been the holder of a primary dental qualification and, for at least one year prior to registration, have been a full-time or part-time member of staff of the College, or a formally appointed Research Fellow of the College, or have held an appointment in one of the teaching hospitals with which the College has a formal association.

If the research involves clinical contact with patients the following additional admission criteria apply:

3. Students must produce an acceptable hepatitis B virus infection result (i.e. negative HBsAg or in the presence of a positive HBsAg, negative HBeAg and negative HBV DNA) and a negative hepatitis C antibody test (or, if positive, a negative PCR test for hepatitis C RNA) carried out not more than six months prior to entry, before being permitted to register with the College. International students are advised to undergo testing in their home country and to forward the result to the Dental School Office as soon as possible thereafter. The College reserves the right to re-test prior to admission. Students admitted to this course who are not already deemed to be immune to hepatitis B will be required to undergo a course of vaccination. Details of vaccination programmes may be obtained on request from the Dental School Office. If Irish law, or regulatory practice, changes between the date of publication of this documentation and the date of registration for new entrants to this course, Trinity College reserves the right to require that the criteria adopted by law and/or regulation in relation to the ability to practice clinically in Ireland be satisfied before registration is permitted. All costs associated with tests for infectious diseases and vaccination must be met by the student.

4. Students are required to undergo vetting by the Garda Síochána or other relevant police force. If, as a result of the outcome of these vetting procedures a student is deemed unsuitable to attend clinical or other professional placements he/she may be required to withdraw from his/her programme of study. Further details and procedures are available from the Academic Registry (Graduate Studies) and from the Dental School office.

3. A candidate who is not a graduate of the University of Dublin (or of the National University of Ireland or the Royal College of Surgeons of Ireland, as provided for above), must carry out the greater part of the research while on the staff of the College or Dental Hospital.
4. After being informed by the Dean of Graduate Studies of acceptance for registration, a candidate must pay the fees required and register on the postgraduate register on an annual basis.

5. Registered students carrying out research involving clinical contact with patients must remain free of any life threatening infectious condition that could be transmitted to a patient or fellow health worker. Such conditions include, but are not limited to, HIV, hepatitis B, hepatitis C, pulmonary tuberculosis, chickenpox and measles. In the event of a student becoming aware of such a condition they should consult their medical advisor. In addition, students must advise the Dental School and shall refrain from further patient contact until cleared medically.

6. The Director of Teaching and Learning (Postgraduate) of the Dental School on the advice of the appropriate Head of Division, will assign an advisor to each candidate.

7. A candidate must present a written report, which must take the form of a thesis based on a piece of original research in dental science or another cognate branch of learning carried out by the candidate individually or as a member of a group. The contribution made by the candidate to a group research activity must be clearly stated in the thesis and be substantial. A candidate will normally be asked to undergo a viva voce examination. The thesis will be graded on a pass/fail basis.

8. In the special case of a distinguished graduate of the University of Dublin who wishes to submit a thesis based solely on published work relating to a single theme, the Dean of Graduate Studies may, following consultation with the Director of Teaching and Learning (Postgraduate) of the Dental School, waive the requirements concerning admission to the M.Dent.Sc. register. In these circumstances, the normal regulations governing minimum time on the postgraduate register before submission of the thesis would not apply.

9. A candidate must furnish evidence that the requirements stated above have been fulfilled and must submit two copies of the thesis to the Dean of Graduate Studies not earlier than twelve months or later than five years after the date of registration.

10. **Director of Teaching and Learning (Postgraduate)**: Professor Ebrahim Al-Awadhi
**Special Care Dentistry (P.Grad.Dip.)**

1. **Introduction:** This course is offered in the Faculty of Health Sciences by the School of Dental Science.

2. **Aims:** This course aims to provide appropriate education and training in special care dentistry to enable dentists to deliver primary care both safely and independently to this patient group. In addition, it aims to deliver a comprehensive education in the theoretical principles of special care dentistry and develop an ability to critically analyse professional literature.

3. **Admission Requirements:** Practitioners must hold an Honors Bachelors Degree in Dental Science or its equivalent for at least two years and be registered with the Dental Council. Students have a responsibility to have valid Basic Life Support (HCP) certification from certified bodies prior to commencement of the course. Furthermore, they should possess their own professional indemnity insurance.

Students must produce an acceptable hepatitis B virus infection result (i.e. negative HBsAg or in the presence of a positive HBsAg, negative HBeAg and negative HBV-DNA) and a negative hepatitis C antibody test (or, if positive, a negative PCR test for hepatitis C RNA) carried out not more than six months prior to entry, before being permitted to register with the College. International students are advised to undergo testing in their home country and to forward the result to the Dental School Office as soon as possible thereafter. The College reserves the right to re-test prior to admission. Students admitted to this course who are not already deemed to be immune to hepatitis B will be required to undergo a course of vaccination. Details of vaccination programmes may be obtained on request from the Dental School Office. If Irish law, or regulatory practice, changes between the date of publication of this documentation and the date of registration for new entrants to this course, Trinity College reserves the right to require that the criteria adopted in relation to the ability to practice clinically in Ireland be satisfied before registration is permitted. All costs associated with tests for infectious diseases and vaccination must be met by the student.

Registered students must remain free of any life threatening infectious condition that could be transmitted to a patient or fellow health worker. Such conditions include, but are not limited to, HIV, hepatitis B, hepatitis C, pulmonary tuberculosis, chickenpox and measles. In the event of a student becoming aware of such a condition they should consult their medical advisor. In addition students must advise the Dental School and shall refrain from further patient contact until cleared medically.

Students are required to undergo vetting by the Garda Síochána or other relevant police force. If, as a result of the outcome of these vetting procedures a student is deemed unsuitable to attend clinical or other professional placements he/she may be required to withdraw from his/her programme of study. Further details and procedures are available from the Academic Registry (Graduate Studies) and from the Dental School office.
For, applicants whose first language is not English and who have not been educated through the medium of English the requirements in Section 1.5 apply, except that the minimum acceptable IELTS score is 7.0 with no individual band below 7.

4. **Duration:** The Postgraduate Diploma in Special Care Dentistry carries 60 ECTS credits. The course of study will be 18 months, part-time. Students will be required to attend for 21 teaching days and 40 clinical sessions. The course will be delivered in the Dublin Dental University Hospital and affiliated centres.

5. **Course Structure:** The course consists of seven core (compulsory) modules as follows:

- Biological sciences of relevance to Special Care Dentistry (10 credits)
- Concepts of health, impairment functioning and disability (5 credits)
- Concepts of oral health, impairment and disability (10 credits)
- Clinical Special Care Dentistry (15 credits)
- Oral health care planning and oral health promotion for individuals & groups (10 credits)
- Professional Literature Appraisal (5 credits)
- Legislation, Ethics and Clinical Governance (5 credits)

6. **Satisfactory Progress:** A student whose progress is unsatisfactory either academically or clinically, may be excluded from any further participation on the course at any time by the Dean of Graduate Studies, who will act in consultation with the Dean of Dental Affairs and the Director of Teaching and Learning (Postgraduate) of the School of Dental Science on the advice of the appropriate Head of Division and the Course Director.

7. **Assessment:** Candidates will be assessed throughout the course by

- Presentations
- Essay
- Literature review
- Portfolio
- End of Year One Examination
- Final Examination – OSCE Final Examination – Written Paper
In addition to the course of study and examinations, a student must present an essay-based project on barriers to care, and a related presentation, a professional literature review, clinical competencies and submit and present a project on health delivery models. A student must also submit a portfolio based on a reflective logbook of all cases seen as part of the course as well as selected cases from their own independent practice demonstrating application of knowledge and practical skills obtained through this course. The portfolio must be submitted to the Course Director two months prior to the completion of the course of study. A Postgraduate Diploma in Special Care Dentistry is awarded upon successful completion of all components of the course.

Any candidate who fails any piece of supplementary coursework or repeat examination will be required to seek special dispensation to sit a second and final supplementary examination or submission at the discretion of the Course Director.

The Postgraduate Diploma may be awarded with Distinction will if a combined mark of at least 70% is obtained across all modules.

8. **Course Director:** Professor June Nunn

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**School of Medicine**

**Advanced Radiation Therapy Practice (online delivery)**

(P.Grad.Cert./P.Grad.Dip./M.Sc.)

**Aim:** The aim of this programme is to enable Radiation Therapists to develop their skills set, through learning and research, in order to work at an advanced level within the radiotherapy department and/or the radiotherapy treatment planning area.

**Duration:** The entry to the programme is via a One Year Postgraduate Certificate or a One Year Postgraduate Diploma (both as a top up to the Postgraduate Certificate or as a direct entry) only then followed by a One Year Master’s course as a top up to the Postgraduate Diploma.

**Admission Requirements:** Applicants for the P.Grad.Cert. or P.Grad Dip. are required

- to normally hold an honours primary degree in Radiation Therapy, Medical Physics, Medicine or a related discipline; or they should otherwise satisfy the selection panel that they have the ability to complete and benefit from the course.
- to be working in an area of radiation oncology for the duration of the course with access to radiation therapy planning or virtual simulation software.
Location: The course is taught by the Discipline of Radiation Therapy using a fully online approach through the College Virtual Learning Environment, Blackboard Learn and Blackboard Collaborate.

Course Structure: The P.Grad.Cert. has two strands; Clinical Practice and Treatment Planning which applicants choose to apply for. The strands share two modules:

- Imaging for Advanced Radiation Therapy Practice
- Delineation for Radiation Therapy Planning.

Advances in Radiation Therapy Practice module is also mandatory for Clinical Practice Strand while

– Specialist Radiation Therapy Technique module is also mandatory for Treatment Planning Strand.

The P.Grad.Dip. has the same two Strands, Clinical Practice and Treatment Planning, which applicants choose to apply for or continue on after completing the postgraduate certificate. The strands share one Research Methods module. The P.Grad.Dip.Clinical Practice Strand has two additional modules: the Health Services Management and Radiobiological Principles and Practice while the P.Grad.Dip. Treatment Planning Strand has Advanced 3D Treatment Planning and Evaluation and Treatment Planning for Modulated Techniques modules.

All taught modules are mandatory and each is worth 10 ECTS credits.

Master’s Top up year: Students who have passed the Postgraduate Diploma will have an option to compete an M.Sc. dissertation (30 ECTS) over an additional Master’s Top up year.

Assessment: Entry to the online programme, which may ultimately lead to an M.Sc. award is via a Postgraduate Certificate or a Postgraduate Diploma. Students may register on the P.Grad.Cert or P.Grad.Dip. programme. Having successfully completed the Postgraduate Diploma students can opt to complete the M.Sc. dissertation module (30ECTS) in an additional year. The pass mark for each award and each module is 50%.

To qualify for the award of the P.Grad.Cert. students must, as a minimum:

- achieve an overall pass mark (50%) which is the credit-weighted average mark for all modules taken and
- achieve a pass mark (50%) in all modules (there are no compensatable modules in this programme), and
- pass taught modules amounting to 30 credits
To qualify for the award of the P.Grad.Dip. students must, as a minimum:

- achieve an overall pass mark (50%) which is the credit-weighted average mark for all modules taken and
- achieve a pass mark (50%) in all modules (there are no compensatable modules in this programme), and
- pass modules amounting to 60 credits
- Students failing to pass a module, may present for supplemental examination or re-submit required work during the College supplemental period. The mark awarded at re-assessment are capped at the pass mark (50%) for the failed assessment component. Students who, following the supplemental examination or re-assessment, have failed to pass the module(s) will be deemed to have failed overall, and may apply to repeat the course.

To qualify for the award of P.Grad.Dip. with Distinction students must, in addition to above either

- achieve an overall credit-weighted average mark of at least 70% across all modules or,
- achieve at least 68% in the overall credit-weighted average mark and achieve a minimum mark of 70% in individual modules which together amount to at least half of the required credits for the award of the Postgraduate Diploma associated with the student’s registered course.

To qualify for the award of the Master’s degree students must, as a minimum:

- have successfully completed the P.Grad. Dip. as stipulated above, and
- achieve a pass mark in the research dissertation.
- Students who do not achieve a pass mark in the research dissertation, will be deemed to have failed overall. Such students may apply to repeat the year or may be awarded the associated Postgraduate Diploma.

To qualify for the award of Master’s with Distinction students must as a minimum:

- achieve a final overall mark of at least 70% in the dissertation.
- A distinction cannot be awarded if a candidate has failed any credit during the period of study.

Progression within the online programme:

On successful completion of the P.Grad.Cert. in Advanced Radiation Therapy the student may exit with the postgraduate certificate, or progress administratively (on the basis of a published result) the following academic year to the Top-up P.Grad.Dip. in Advanced Radiation Therapy of the chosen strand (in choosing this option the student is not awarded the postgraduate certificate), or exit with the postgraduate certificate and within a five year period apply online for the top-up P.Grad.Dip. in Advanced Radiation Therapy and rescind the postgraduate certificate.

On successful completion of the P.Grad.Dip. in Advanced Radiation Therapy the student may exit with the postgraduate diploma, or progress administratively (on the basis of a published result) the following academic year to the Top-up Master’s in Advanced Radiation Therapy of the chosen strand (in choosing this option the student is not awarded the postgraduate diploma), or exit with the postgraduate diploma and within a five year period apply online for the top-up Master’s in Advanced Radiation Therapy and rescind the postgraduate diploma. The award of M.Sc. (Studia) is the standard degree award for taught Master’s courses.
Rescinding the P.Grad.Cert. award: Students who have opted to receive a P.Grad.Cert. may apply to submit subsequently for the corresponding P.Grad.Dip. Following completion of the P.Grad.Dip. requirements the student will inform the Registrar of his/her intention to rescind the P.Grad.Cert. and have the credit obtained during the P.Grad.Cert. integrated into the P.Grad. Dip. The student will be required to submit the original P.Grad.Cert. and/or any duplicates that have been issued. The time limit for applying to complete the credits required for the P.Grad.Dip. will normally be up to 5 years following completion of the P.Grad.Cert. In exceptional circumstances, a longer time limit may be considered by the Dean of Graduate Studies. This arrangement is not available to students who exit with the P.Grad.Cert. as a consequence of failing to attain the pass requirements of the P.Grad.Dip.

Rescinding the P.Grad.Dip. award: Students who have opted to receive a P.Grad.Dip. may apply to submit subsequently for the corresponding Master’s degree. Following completion of the Master’s requirements the student will inform the Registrar of his/her intention to rescind the P.Grad.Dip. and have the credit obtained during the P.Grad.Dip. integrated into the Master’s degree. The student will be required to submit the original P.Grad.Dip. and/or any duplicates that have been issued. The time limit for applying to complete the credits required for the Master’s degree will normally be up to 5 years following completion of the P.Grad.Dip. In exceptional circumstances, a longer time limit may be considered by the Dean of Graduate Studies. This arrangement is not available to students who exit with the P.Grad.Dip. as a consequence of failing to attain the pass requirements of the Master’s.

Course Director: Associate Professor Michelle Leech

Course Co-ordinator: Assistant Professor Laura Mullaney

Advanced Radiotherapy Practice (M.Sc./P.Grad.Dip.)

1. **Aims:** The aim of this course is to enable Radiation Therapists to build on their current skills set, through learning and research, in order to work at an advanced level within the radiotherapy department and/or the radiotherapy treatment planning area.

2. **Duration:** The course is offered on a two years part-time basis.

3. **Admission Requirements:** Applications will be accepted from those who:

   Hold an honors Bachelor degree (or equivalent qualification) in Radiation Therapy or Medical Physics. Have confirmed access to a treatment planning department. Candidates cannot be accepted onto the course unless they have access organised at the time of application.
Otherwise satisfy the course admission committee that they have the ability to complete and benefit from the course.

4. **Location:** The course is taught using a blended learning approach of face to face teaching in the Discipline of Radiation Therapy, Trinity Centre for Health Sciences, St James’s Hospital and online components using the College Virtual Learning Environment (VLE).

5. **Course Structure:** The modules on the clinical practice strand are:

**Strand content of Advanced Radiotherapy Practice –**

- Research Methodology and Statistics (10 ECTS) (shared with Radiation Therapy Treatment Planning)
- Imaging: Physical Properties, Clinical Application and Radiological Anatomy (10ECTS) (shared with Radiation Therapy Treatment Planning)
- Healthcare Management (10 ECTS)
- Radiobiology (10 ECTS)
- Contouring for Radiation Therapy Treatment Planning (10 ECTS) (shared with Radiation Therapy Treatment Planning)
- Evidence-based Radiation Therapy Practice (10 ECTS)
- Research Dissertation (30 ECTS) (shared with Radiation Therapy Treatment Planning)

**Strand content of Radiation Therapy Treatment Planning –**

- Research Methodology and Statistics (10 ECTS) (shared with Advanced Radiotherapy Practice)
- Imaging: Physical Properties, Clinical Application and Radiological Anatomy (10ECTS) (shared with Advanced Radiotherapy Practice)
- 3D Conformal Treatment Planning (10 ECTS) –
- Contouring for Radiation Therapy Treatment Planning (10 ECTS) (shared with Advanced Radiotherapy Practice)
- IMRT Treatment Planning (10 ECTS)
- Treatment Planning for Specialist Techniques (10 ECTS) –
- Research Dissertation (30 ECTS) (shared with Advanced Radiotherapy Practice)
6. **Dissertation**: Students will be required to complete a research dissertation of approximately 12,000 words. Each student will be assigned a supervisor with whom they will meet at regular intervals. The student will be required to submit a research proposal and an ethics application prior to commencing the data collection. At the end of this module the student will present their research findings in a dissertation format and paper format. The dissertation will follow the following format: Literature review, Research Methodology, Results, Discussion. The student will also submit a report of the research in a paper format of no more than 3,500 words.

7. **Assessment**: The pass mark for this course is 50% and all modules are assessed on a pass/fail/distinction basis only. Students must achieve 50% in each module, including the dissertation, of the course to fulfil criteria for the award of the M.Sc. in Advanced Radiotherapy Practice and Radiation Therapy Treatment Planning. The overall mark for the course is based on the credit-weighted average of the mark awarded for each module, including the research dissertation. Compensation is not permitted between modules. In order to qualify for the award of the M.Sc. in Advanced Radiotherapy Practice/ Radiation Therapy Treatment Planning with distinction students must as a minimum achieve a final overall average mark for the course of at least 70% and a mark of at least 70% in the dissertation.

Students may re-submit failed work or re-sit failed examinations; the marks awarded at re-assessment are capped at the pass mark (50%). Students who, following the supplemental examinations or re-assessment, have failed to pass taught modules will be deemed to have failed overall, and may apply to repeat the course.

Students who have passed taught modules but who do not achieve a pass mark in the research dissertation, will be deemed to have failed overall. Such students may apply to repeat the year or may be awarded the associated Postgraduate Diploma. Students are required to successfully accumulate 60 ECTS credits in Year One to rise with his/her class to Year Two.

Students who have successfully achieved an overall pass mark which is the credit-weighted average mark for all modules taken and accumulated 60 ECTS credits but who do not wish to proceed to the dissertation stage will be considered for a Postgraduate Diploma (exit award). Students who have achieved an overall credit-weighted average of at least 70% across all modules will be eligible for consideration for the award of Postgraduate Diploma with Distinction. Graduates with a Postgraduate Diploma may not subsequently register for the course to attempt to complete it for an award of the Masters degree.

8. **Course Director**: Michelle Leech

**Course Co-ordinator**: Laura Mullaney
1. **Introduction:** This multidisciplinary Masters course in Biological Psychiatry explores the relationship between basic principles, biological factors (e.g. genes, neurodevelopment, brain structure and function, cognition) and clinical features in mental health disorders, allowing students to translate scientific understanding into effective clinical practice. Neuropsychiatric disorders are common with one in four of the world’s population suffering from various forms of mental, behavioural and neurological disorders. According to the World Health Organisation, mental disorders account altogether for about 13.5% of the global burden of disease. This course is aimed primarily at graduates with a background in psychiatry (or related health care disciplines), psychology, biological or social sciences, who wish to develop their research skills and broaden their research interests. The course will aid in equipping participants with the skills to progress into a career in psychiatry and psychiatric research or to embark on a doctoral programme.

2. **Admission Requirements:** Applications are invited from individuals with a primary degree in medicine or other allied health discipline, e.g. psychology, biological sciences and pharmaceutical science. Those with a science degree should have achieved at least a second class, first division honors degree or its equivalent. Candidates may be interviewed to establish their suitability for the course at the discretion of the Course Director.

3. **Duration:** This course is offered on apart-time basis over two years.

4. **Course Structure:** Students are required to take a total of six modules over four semesters and complete a research dissertation of about 15,000 words on an approved theme in the second year. The modules carry the following ECTS credits:

   - Module A: Statistics and Research Methodology (10 credits)
   - Module B: Clinical Neuropsychology and Cognitive Genomics (10 credits)
   - Module C: Neuroimaging and Biomarkers (10 credits)
   - Module D: Molecular Neuroscience (10 credits)
   - Module E: Neuropsychiatric Genetics (10 credits)
   - Module F: Molecular Psychiatry (10 credits)
   - Module G: Research Dissertation (30 credits)
The School of Medicine reserves the right to vary the above list and, in particular, the right to withdraw and replace modules. The M.Sc. carries 90 credits, and the exit award of P.Grad.Dip. carries 60 credits.

5. **Assessment procedure:** Assessments will be based on a combination of formative assessment for each module, based upon in-module coursework and summative end-of-module written examination. All course work will be double marked. In terms of weighting, all modules, including the dissertation, are weighted according to their ECTS credit value. Accordingly, 66% of the final course mark will be allotted to assessments of Modules A-F and the remaining 34% will be allotted to the Dissertation and research project (Module G) to be developed and completed within the second year.

A 50% pass mark applies for each of the formative assessments, and also for the dissertation. Each module must be passed independently and all practice assessments must be passed without compensation.

In cases where students fail to achieve 45% in a written assignment, a re-submission will be permitted with a deadline for re-submission of two weeks from the publication of the initial results. Only one re-submission will be allowed, and the maximum mark awarded for the resubmitted assignment is 50%.

Obtaining 50% of the available marks in each of the three assessment types (i.e. in-course written work, in-course presentations, end of module written exam) is required to pass each of the taught modules. Students who fail a single teaching module in either their first or second year may compensate from marks (%) awarded for the other teaching modules in that year up to a total of 5%. If unable to compensate, supplemental exams (September sittings) will be available for those who fail one or two teaching modules in their first or second year. Students who fail a module on the second attempt or who fail three modules in their first or second year will fail the whole course and exit the course.

In the second year of the MSc course students will undertake a project, the design and planning for which will begin at the beginning of that year. A literature review and description of proposed research methods (5,000 words) will be submitted by the end of Michaelmas Term in the second year. Depending upon the nature of the project, students will be based in a TCD lab or research department while completing their projects. Students will be given support from an assigned project supervisor from Trinity, drawn from the staff of the Department of Psychiatry (School of Medicine), Institute of Molecular Medicine or Trinity College Institute of Neuroscience. Types of projects available include genetic association, neuroimaging, neuropsychology and clinical/molecular biomarker studies on neuropsychiatric disorders. During the project time students will participate in regular feedback sessions with their project supervisor. Students will have an opportunity to present project protocols throughout their second year before beginning the research work. The project dissertation (10,000 – 15,000 words) will be submitted by the end of August of the second year in the style of the journal Biological Psychiatry. Each dissertation will be graded by two independent markers and may be moderated by the external examiner. A grade of 50% or more will be required to pass (no compensation is allowed).
6. **Progression**: All students register on the M.Sc. programme. Students must successfully pass all the requirements of the first year of the programme to progress to the second year.

The Court of Examiners will meet at the end of year 1 to moderate examination marks on the taught modules of the course.

A Masters dissertation will be submitted and examined in line with the General Regulations for Taught Graduate Courses stated in Part B (Section 3) of the University of Dublin Calendar Part 2 for Graduate Studies and Higher Degrees for a given year.

The award of a Masters with Distinction shall require the achievement of a distinction for the dissertation, and an average of at least 70% of the available marks in all taught modules. A Distinction cannot be awarded if a candidate has failed any module during the period of study.

Students who have successfully passed the six taught modules of the course and accumulated 60 credits but who do not wish to proceed to the dissertation stage, or if they have submitted but then failed the dissertation, will be considered for a Postgraduate Diploma (exit award). Students who, in addition, have achieved an average of at least 70% of the available marks in all taught modules passed will be eligible for consideration for the award of Postgraduate Diploma with Distinction. The Postgraduate Diploma with Distinction cannot be awarded if a candidate has failed any module during the period of study.

7. **Course Director**: Prof Declan McLoughlin

**Course Co-ordinator**: Dr Thekiso Thekiso

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**Biomedical Sciences (Intercalated) (M.Sc./P.Grad.Dip.)**

1. **Introduction**: This intercalated Masters course in Biomedical Sciences provides medical students with the option of taking an M.Sc. after year three of the M.B. degree. At year three students will have qualified for a B.A. However, this degree is not normally awarded until the students are conferred with their final M.B. The intercalated Masters will also be conferred at this point.

2. **Duration**: One-year, full-time.

3. **Course Structure**: The students will take a Core Module in Clinical Research (5 ECT) based in the School of Medicine and concurrently follow one of six specialist tracks, which will be provided by the actual modules as offered by the following currently running Masters courses (i) the M.Sc. in Molecular Medicine, (ii) the M.Sc. in Neuroscience, (iii) the M.Sc. in Bioengineering, (iv) the M.Sc. in Translational Oncology, (v) the M.Sc. in Healthcare Infection Management, or (vi) the M.Sc. in Immunology. Students will conduct a three-month research project and will submit a dissertation
based on this research work. A pass mark in all three required sections (Core Module, Specialisation Track and Dissertation) will result in the awarding of M.Sc. in Biomedical Sciences.

If the student does not pass the dissertation component, but successfully passes the taught components, the Postgraduate Diploma will be awarded.

Students need only take a total of 85 ECT from the respective tracks as a consequence of the core Clinical Research Module and should discuss with module (worth 5 ECT) they may drop with the respective course Directors.

Core Module:

Clinical Research (5 credits)

Specialisation Track Modules (Bioengineering – 4 streams):

Project work and Dissertation (30 credits)

Modules to the total value of 55 credits should be chosen from the following:

Physiological Measurement (10 credits)
Biomaterials (5 credits)
Biomechanics (5 credits)
Research Methods (15 credits)
Neural Engineering (5 credits)
Cell and Tissue Engineering (5 credits)
Neural Signal Analysis (10 credits)
Rehabilitation Engineering (5 credits)
Form and Function of the Nervous System (5 credits)
Implantable Neural Systems (5 credits)
Neuro-imaging Technology (5 credits)
Current Research Topics and Techniques in Neural Engineering (10 credits)
Medical Device Design (10 credits)
Laboratory Techniques in Cell and Tissue Engineering (5 credits)
Cellular Biology and Cell Signalling Mechanisms (5 credits)
Design/Innovation (10 credits)
Current Research Topics and Techniques in Medical Device Design (10 credits)
Current Topics in Cell and Tissue Engineering (10 credits)

Specialisation Track Modules (Neuroscience):

Six Core Modules

Statistics and Bioinformatics (5 credits)

Experimental Skills (5 credits)

Experimental Neuroscience (5 credits)

Literature Review (5 credits)

Clinical Research (5 credits)

Research Project (30 credits)

And selects six of the following eleven:

Form and Function of the Nervous System (5 credits)

Neuropharmacology (5 credits)

Drug Development (5 credits)

Neuroimmunology (5 credits)

Chronic Pain (5 credits)

Neural Engineering (5 credits)

Neuroimaging (5 credits)

Receptor Topics in Neuroscience (5 credits)

Cellular Neuroscience (5 credits)

Journal Clubs (5 credits)

Biochemical Basis of Neuropharmacology (5 credits)

Specialisation Track Modules (Molecular Medicine):

Compulsory modules:

Research Skills (15 credits)
Project Work and Dissertation (30 credits)

Modules to the total value of 40 credits should be chosen from the following:

Human Genetics (5 credits)
Advanced Diagnostics and Therapeutics (5 credits)
Nanomedicine and Medicinal Chemistry (5 credits)
Infectious Agents Biological and Clinical Applications (5 credits)
Introduction to Genetics and Development (5 credits)
Cell Biology and Cell Signalling Mechanisms (5 credits)
Molecular and Cellular Immunology (5 credits)
Molecular Mechanisms of Human Disease I (5 credits)
Molecular Mechanisms of Human Disease II (5 credits)
Molecular Oncology (5 credits)
Neurobiology (5 ECTS)

Specialisation Track Modules (Translational Oncology):

Compulsory Modules:

Project Work and Dissertation (30 credits)
Cellular and Molecular Basis of Cancer (5 credits)
Tumour Immunology (5 credits)
Site-specific Cancers (5 credits)
Chemotherapy, Radiotherapy and Molecular Targeted Therapies (5 credits)
Cancer Epigenics, Gener Regulation and Stem Cells (5 credits)
Molecular Pathology and Diagnostic Imaging (5 credits)
Medical Ethics and Clinical Statistics (5 credits)
Molecular Oncology Research Skills (5 credits)

Modules to the total value of 15 credits should be chosen from the following:

Obesity, Metabolism and Physica Activity (5 credits)
Cellular and Genomic Instability (5 credits)
Cancer Drug Development (5 credits)
Tumour Microenvironment (5 credits)
Clinical Pharmacology and Therapeutic Toxicities (5 credits)
Surgical Oncology and Health Economics (5 credits)

Specialisation Track Modules (Healthcare Infection Management):
Clinical Microbiology and Infectious Diseases (15 credits)
Antimicrobial Therapy and Resistance (15 credits)
Epidemiology and Infection Control (15 credits)
Multidisciplinary Management of Infection (10 credits)
Research Project (30 credits)

Specialisation Track Modules (Immunology):
Modules to the value of 55 credits should be chosen from the following:
Basic Immunology (10 credits)
Immunological Technologies (10 credits)
Communicating Science and Critical Analysis (5 credits)
Tumour Immunology (5 credits)
Immunogenetics (5 credits)
Microbe Detection and Evasion (5 credits)
Clinical Immunology (5 credits)
Parasite Immunology (5 credits)
Global Infectious Diseases (5 credits)
Immunotherapeutics and Product Development (5 credits)
Research Project (30 credits)
4. **Assessment:** The Core Module and Specialisation Tracks are assessed by means of written examinations and assignments. General College regulations apply with regards to examinations and coursework. The student must pass all examinations and assignments. The pass mark for examinations and assignments is 50%. A dissertation relevant to the applications of Biomedical Sciences must be submitted and passed as assessed by an external examiner.

Both components (coursework and dissertation) must be passed for the degree of Masters in Biomedical Sciences to be awarded. No compensation between these two elements is available. Successful completion of the coursework (a pass in all components), but not the dissertation, will result in a Postgraduate Diploma being awarded to the student. To qualify for the award of the M.Sc. in Biomedical Sciences, students must achieve an overall mark of at least 50% which will be the credit-weighted average of all modules including the research project/dissertation and must pass taught modules amounting to 60 credits as well as the research project/dissertation. No compensation between these two elements is available. Students who have successfully passed the taught modules of the course and accumulated 60 credits but who do not wish to proceed to the dissertation stage, or those who have submitted but failed the dissertation, will be considered for a Postgraduate Diploma (exit award). Students who have achieved an average of at least 70% of the available marks in all taught modules passed will be eligible for consideration for the award of Postgraduate Diploma with Distinction. Postgraduate Diploma with Distinction cannot be awarded if a candidate has failed any module during the period of study.

Should a Diploma award be made, the graduate cannot re-register for the course in order to complete it for the Masters in Biomedical Sciences degree. An external examiner monitors the assessment process.

5. **Course Director:** Dr Henry Windle

**Course Track Co-ordinators/Directors:**

Core: Dr Henry Windle and Professor Dermot O'Toole

Molecular Medicine: Professor Ross McManus

Bioengineering: Professor Richard Reilly and Professor Conor Buckley

Neuroscience: Professor Kumlesh Dev

Translational Oncology: Drs Jacinta O’Sullivan and Graham Pidgeon

Healthcare Infection Management: Professor Thomas Rogers

Immunology: Professor Cliona O’Farrelly
Cardiology (M.Sc.)

1. **Introduction:** The course is aimed at physicians who are undertaking specialist training in Cardiology. This course is run jointly between the Trinity College School of Medicine and the Department of Cardiology, St. James’s Hospital, Dublin.

2. **Duration:** Two years, part-time.

3. **Course Structure:** The course is delivered as lectures, demonstrations, seminars, practical and workshops. All students are required to attend the core curriculum of lectures during the two years with examinations at the end of each year. Practical instruction in non-invasive and invasive techniques is supervised by nominated consultants and progress is assessed by continual assessment. A dissertation project is carried out over the two-year period, and it is evaluated by an external assessor.

The core syllabus consists of the following modules:

1. **Basic Sciences and Clinical Cardiology (25 credits).** A detailed review of the basic sciences as applied to cardiology and cardiovascular disease. A comprehensive course on the presentation, diagnosis and management of cardiovascular disease in adults and children.

2. **Research Methods and Statistics (5 credits)**

3. **Non-Invasive Cardiology (15 credits).** This module covers the broad range of non-invasive cardiological techniques including nuclear cardiology.

4. **Principles of Diagnostic and Invasive Cardiology (5 credits).** This module involves theoretical and practical instruction in invasive cardiology.

5. **Advanced Diagnostic and Invasive Cardiology (5 credits).** This module involves advanced theoretical and practical instruction in invasive cardiology.

6. **Pacing and Electrophysiology (10 credits).** This module involves theoretical and practical instruction in pacing and cardiac electrophysiology.

7. **Dissertation (30 credits).** During the first year of the lecture programme, a research project will be chosen by each student in consultation with his/her course supervisor and the Course Director. The dissertation must establish that a significant piece of research has been performed and reported to an acceptable standard, i.e. suitable for publication in an established, peer-reviewed journal.

8. **Practical Training.** Part-time students must gain experience in and document competence in pre-specified techniques and procedures during their clinical training. The logbook of
training is a very important part of student assessment and marking. If overseas full-time students are enrolled in the course, their practical training may be organised in conjunction with the lecture syllabus and the research project by local agreement with the Department of Cardiology, St. James’ Hospital and the course committee.

4. **Assessment:** Assessment takes the form of written examinations at the end of years one and two, a practical data interpretation examination at the end of year 2, continuous assessment in the form of a logbook completion and supervisors’ reports, and a research dissertation. Compensation between the taught modules will be permitted in line with the General Regulations. To qualify for the award of the M.Sc. in Cardiology, students must achieve an overall mark of at least 50% which will be credit-weighted average of all modules, including the research project/dissertation, must pass, outright or by compensation, taught modules amounting to 60 credits and achieve an average mark of at least 50% across the taught modules as well as in the research project/dissertation.

The award of Masters with Distinction shall require, in addition, the achievement of a mark of 70% or above for the dissertation, and an overall average mark for the course of at least 70%. A Distinction cannot be awarded if a candidate has failed any module during the period of study. Internal and external examiners assess all components of the course.

5. **Location:** The lectures will be delivered in the Postgraduate Room, The Crest Directorate, Hospital 7, St. James’s Hospital. In addition, the Anatomy lectures will be delivered in the Trinity Centre for Health Sciences, St. James’s Hospital.

6. **Course Director:** Dr Caroline Daly

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**Cardiovascular Rehabilitation and Prevention (M.Sc./P.Grad.Dip.)**

1. **Introduction:** This course aims to provide health professionals with an understanding of cardiovascular rehabilitation and prevention, to prepare health professionals to provide an effective cardiac rehabilitation service, and to objectively evaluate their practice through research. It also aims to develop the health professionals’ knowledge of current prevention strategies in the area of cardiovascular disease.

2. **Course structure:** The course will be either one year full-time or two years part-time. This course carries 90 ECTS credits and comprises the following modules:

Cardiovascular and Respiratory Physiology (10 credits)
Exercise Prescription (10 credits)
Clinical Exercise Prescription (5 credits)
Research Methods and Statistics (10 credits)
Cardiology (10 credits)
Preventive Cardiology and Rehabilitation (10 credits)
Health Policy and Management (5 credits)
Research Dissertation (30 credits)

3. **Assessment:** Students must achieve 50% in each module, including the dissertation, of the course to fulfil the criteria for the award of the M.Sc. in Cardiovascular Rehabilitation and Prevention. Students will be required to complete a research dissertation of approximately 12,000 words. This research project will be carried out in the second year for students doing the course part-time. Each student will be assigned to a supervisor who he/she will meet with at regular intervals. The student will be required to submit a research proposal and an ethics application prior to commencing the data collection. At the end of this module the student will present their research findings in a dissertation format and paper format. The dissertation will follow the following format: Literature review, Research Methodology, Results, Discussion. The student will also submit a report of the research in a paper format of no more than 3,500 words.

If exceptional circumstances have arisen during the year to make it impossible to undertake the research dissertation, a student registered for the Masters course may apply for a Postgraduate Diploma in Cardiovascular Rehabilitation and Prevention. Approval will depend on successful completion of the taught elements of the course and a recommendation for the award of the Postgraduate Diploma by the examiners.

4. **Location:** The course will be based in the Trinity Centre for Health Sciences in AMNCH and the Trinity Centre for Health Sciences St James’s Hospital.

5. **Course Director:** Professor John Gormley

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**Clinical Chemistry (M.Sc./P.Grad.Dip.)**

1. **Introduction:** This M.Sc. programme in Clinical Chemistry is offered on a part-time basis over two years. All students regardless of background will gain a comprehensive understanding of the principles of Clinical Biochemistry to an advanced level.
2. **Course Structure:** Lectures, case discussions and practical instruction workshops will take place on Fridays over 4 terms with revision sessions in the Trinity term each year. The course consists of six modules worth 90 ECTS: Clinical Chemistry I (CH7501) has 15 ECTS; Clinical Chemistry II and General Paediatric Biochemistry (CH7502) 15 ECTS; Endocrinology and Metabolism I (CH7503) 10 ECTS; Endocrinology and Metabolism II and Inborn Errors of Metabolism (CH7504) 10 ECTS; Quality Assurance and Laboratory Management (CH 7505) 10 ECTS; Research Project has 30 ECTS. Students will carry out research in their base laboratory for the dissertation throughout the course and will be required to submit an outline proposal for the subject of their dissertation by the end of the first term.

3. **Assessment:** Continuous assessment: based on 6 written assignments and ten cases over the two years. Exams: there is an exam at the end of each year covering the year’s topics and consisting of one written paper and a practical assessment with a short viva voce at the end of the second year. The practical assessment will consist of short questions including clinical observations, practical findings, calculations, and other material in the format known as an Objective Structured Pathology Exercise (OSPE). Students will also need to complete and submit a research dissertation of approximately 12,000 words by 31st August of their final year. A pass must be obtained in the dissertation in order to be awarded the M.Sc. (no compensation is allowed). The written components must also be passed, though compensation is allowed between the components, provided a minimum mark of 40% is obtained in the failed component. Students who pass all components of the assessments but who do not submit a successful dissertation may be awarded a Diploma but not the M.Sc. Students may however exit with a diploma and return to complete the research component within a five year period. This is only in cases where the student has reached the required standard in the taught component and they must rescind the Diploma to do so.

4. **Course Director:** Dr Gerard Boran

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**Clinical Exercise (online) (P.Grad.Cert.)**

**Introduction:** The aim of this course is to enable health care clinicians to prescribe exercise as a disease preventative and treatment modality in a safe, effective and scientific manner. This course will provide students with an evidence-based, clinically focussed online learning experience. The course will be structured, yet flexible in order to be accessible and relevant globally.
**Admission Requirements:** The programme will be open to graduates from nursing, medicine, dietetics and nutrition, medicine, physiotherapy, occupational therapy and physiology. Graduates from other degree courses such as sports science will be assessed on an individual basis. Those with clinical experience will be prioritised. Successful applicants will hold a level 8 degree or equivalent professional degree at 2.1 level or equivalent. Applicants who do not fit these criteria, but who have clinical experience will be assessed on an individual basis by the Dean of Graduate Studies.

**Course Structure:** The Postgraduate Certificate in Clinical Exercise is offered as a one year online course with students taking four core modules totalling 30 ECTS as follows:

<table>
<thead>
<tr>
<th>Module Title</th>
<th>ECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>The cardiovascular and respiratory system</td>
<td>10</td>
</tr>
<tr>
<td>Physical activity and exercise</td>
<td>5</td>
</tr>
<tr>
<td>Exercise in the prevention and treatment of disease</td>
<td>10</td>
</tr>
<tr>
<td>Exercise prescription for clinical populations</td>
<td>5</td>
</tr>
</tbody>
</table>

**Assessment:** Students will be assessed through the timely submission of essays, case scenarios, reflections and through the completion of multiple choice quizzes. Marks will also be awarded for substantial relevant contributions to discussion boards and for engagement with online learning resources. The final mark awarded is based on a credit-weighted average of the mark awarded in each module. The final mark for each module will be the weighted average mark derived from a combination of all the assessment elements. Students must observe all published deadline dates, which are final and have the status of examination dates. The pass mark is 50%. Compensation between modules is not allowed. Students who fail to achieve a minimum of 50% in a written assessment element may resubmit with a deadline for resubmission of one month from the publication of the initial results. Only one resubmission will be allowed, and the maximum mark awarded for the resubmitted assignment is 50%.

A student who fails the overall module but who has not taken the opportunity to resubmit any failed elements will have one opportunity to resubmit failed written elements before the supplemental examination board.

Students who have successfully passed all the required modules and accumulated 30 ECTS will be considered for a Postgraduate Certificate in Clinical Exercise. Students who have achieved an overall credit-weighted average mark of at least 70% will be eligible for consideration for the award of Distinction in Postgraduate Certificate in Clinical Exercise. A distinction cannot be awarded if a candidate has failed any credit during the period of study.
**Course Director:** Dr John Gormley

**Course Co-ordinator:** To be confirmed

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**Cognitive Psychotherapy (M.Sc.)**

1. **Location:** The course which runs under the auspices of the School of Medicine and Health Sciences, TCD, is based in the Medical Teaching Centre in St Patrick’s University Hospital, with library facilities in both the John Stearne Medical Library in St James's Hospital and the TCD campus.

2. **Course Duration:** This is a biennial course offered on a part-time basis over two years.

3. **Learning Objectives:** The course has the following learning objectives:

   – In depth knowledge and understanding of the theoretical basis of cognitive psychotherapy
   
   – Application of disorder specific models of cognitive psychotherapy in a range of patients including complex, long-term cases
   
   – Evaluation of the evidence base for cognitive psychotherapy
   
   – Knowledge and understanding of the principles of supervisory practice in cognitive psychotherapy
   
   – Knowledge and understanding of research principles and methodologies used to assess delivery and outcomes of cognitive psychotherapy

4. **Course Structure:** the M.Sc. course carries 90 ECTS credits and comprises five modules:

   1. Clinical Placement Module (20 credits)
   2. CBT for Complex Mental Health Problems (15 credits)
   3. Self Practice / Self Reflection Skills in CBT (10 credits)
   4. Research Skills – Critical Appraisal of CBT literature (15 credits)
   5. Research Dissertation (30 credits)
This course offers the opportunity to explore in depth the theory and practice of cognitive psychotherapy. It is aimed to equip students with the knowledge and skills to use cognitive psychotherapy consistently and effectively in their work place. By the end of the course students should have established competence to assess and treat acute (Axis I) emotional disorders and have competence with the methods of schema-focused cognitive psychotherapy, which are more appropriate to long-term and recurrent disorders.

Students are encouraged to develop the ability to communicate professionally the key principles of cognitive psychotherapy, through case presentations to mental health colleagues and through achieving competence in writing theoretical reviews and case studies which illustrate different treatment approaches within cognitive psychotherapy. They will also have demonstrated a capacity to reflect upon their own personal practice of cognitive psychotherapy. Students will have an understanding of research in cognitive psychotherapy and will complete a project of their own which shall be written up in a dissertation (circa 15,000 words).

5. **Assessment and Progression:** Students must attend at least 75% of lectures, tutorials and supervision sessions per semester to fulfil the criteria for the award of the Master of Science degree. Students must complete a total of 250 supervised clinical hours with patients by the end of the course and will require a satisfactory end-of-placement assessment by their supervisor.

Students will be expected to undertake regular audiotaped/videotaped clinical work using the principles of cognitive psychotherapy. The recordings must be brought into supervision sessions and a minimum of one recording must be submitted to their supervisor each term. Students are also required to complete all written assignments by the end of each term. Failure to do so will be reviewed by the Course Director and may result in the student not being allowed to progress to subsequent modules of the course until they are satisfactorily completed.

To qualify for the award of the M.Sc. degree, a score of at least 50% must be achieved in each module, including the research dissertation. Throughout the course, clinical performance is evaluated using the Cognitive Therapy Scale – Revised or other validated scales for this purpose. Pass scores mean that the student is carrying out competent and effective cognitive psychotherapy. Failure to reach this standard will mean that a Master in Science Degree cannot be awarded. It is not possible to use high scores in written assignments to compensate for inadequate clinical performance.

For the award of a Master of Science degree with Distinction students must, in addition, achieve a mark of at least 70% in the research dissertation and in the overall average mark for the course.

6. **Course Director:** Dr Brian Fitzmaurice
1. **Introduction:** This Postgraduate Diploma course introduces the student to the basic theory of cognitive therapy and customised applications of this model to a range of clinical syndromes. The curriculum emphasises a knowledge of cognitive behavioural models, concepts and methods; competence in developing cognitive case formulations; devising and implementing individual treatment programmes for a range of emotional disorders, and evaluating their effects; understanding the links between cognitive therapy and developmental and cognitive psychology; ethical issues in practising psychotherapy.

2. **Admission Requirements:** This course is offered as a specialised post-qualification course that builds on relevant knowledge and skills already possessed by prospective candidates. Suitable candidates for the course will:

   a) be currently employed in a healthcare setting and providing counselling or psychotherapy as part of their work, and;

   b) have achieved a recognised third-level qualification in a mental health profession (e.g. psychology, nursing, social work, medicine), and;

   c) have relevant clinical experience and/or evidence of recognised foundation training in counselling/psychotherapy, and:

   d) have two years postgraduate experience.

3. **Duration:** One year full-time.

4. **Course Structure:** The Postgraduate Diploma course carries 60 ECTS credits, and comprises six modules:

   1. Basic Theory in Psychotherapy and the Cognitive Model
   2. Introduction to Cognitive Behavioural Model
   3. Cognitive Behavioural Model – Anxiety Disorders and Depression
   5. Patients with Challenging Clinical Contexts
   6. Individual and Group CBT – Multi-disciplinary Teams and Self-Help

   This course will offer the opportunity to explore in depth the theory and practice of cognitive psychotherapy. It is aimed to equip students with the knowledge and skills to use cognitive
psychotherapy consistently and effectively in their work place. By the end of the course
students should be competent to assess and treat acute (Axis I) emotional disorders and be
acquainted with the concepts and methods of schema-focused cognitive psychotherapy,
which are more appropriate to long-term and recurrent disorders.

Students are encouraged to develop the ability to communicate professionally the key
principles of cognitive psychotherapy, through case presentations to mental health
colleagues and through achieving competence in writing theoretical reviews and case
formulations which illustrate different treatment approaches within cognitive psychotherapy.
At all times, an attitude of enquiry and creativity is encouraged in students, who may need to
adapt to the unique outcome of each patient.

5. Assessment and Progression: Students must attend at least 75% of lectures,
tutorials and supervision sessions per term to fulfil the criteria for the award of the
Postgraduate Diploma. Students must complete 20 supervised clinical hours with patients
per term and have completed the treatment of five cases using three disorder-specific
models of CBT before the end of the course.

Students will be expected to undertake regular audiotaped/videotaped clinical work using the
principles of cognitive psychotherapy. The recordings must be brought into supervision
sessions and a minimum of one recording must be submitted to their Supervisor each term
for rating using the Cognitive Therapy Scale. Students are also required to complete all
written assignments by the end of each term. Failure to do so will be reviewed by the Course
Director and may result in the student not being allowed to progress to subsequent modules
of the course until they are satisfactorily completed.

A score of more than 50% must be achieved on all written assignments. It is possible to
compensate for a mark between 40% and 50% on one written assignment if a score of at
least 60% has been achieved in other written assignments. Students who fail the written
assignments in any term will meet with the Course Director at the beginning of the following
term and may be assigned an academic Supervisor to support them in making
improvements in their submitted written assignments. This supplementary academic
supervision will take place outside of the normal course timetable and will be arranged by
the Course Director.

Throughout the course, clinical performance will be evaluated using the Cognitive Therapy
Scale – Revised (CTS-R). Pass scores mean that the student is carrying out adequate and
recognisable cognitive psychotherapy. Failure to reach this standard will mean that a
Postgraduate Diploma cannot be awarded.

It is not possible to use high scores in written assignments to compensate for inadequate
clinical performance. For the award of a Postgraduate Diploma with Distinction all submitted
assignments (written assignments and recordings rated using CTS-R) must attract a mark of
more than 70%.
6. **Location:** The Course will be based in St Patrick’s University Hospital, with library facilities in both St Patrick’s Hospital, the John Stearne Medical Library in St James’s Hospital and the Trinity College Dublin campus.

7. **Course Director:** Dr Brian Fitzmaurice

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**Exercise Physiology (M.Sc./P.Grad.Dip.)**

1. **Introduction:** This course aims to provide training for professional development of physical educators and health care workers who employ exercise therapy. In addition, this course would be ideal for those interested in gaining experience in assessment of exercise performance, and exercise applications in training and research. All graduates will develop an advanced understanding of how the body responds to acute and chronic exercise, in both physiological and pathological conditions, and acquire practical experience in the use of modern technologies for monitoring and assessing exercise performance.

2. **Admission Requirements:** To be eligible for admission, applicants are expected to hold a tertiary qualification, normally with some grounding in human biology. Typical candidates who achieve well on the course are employed in the field of physical education, as health professionals involved with patient management, or who have a significant personal involvement or interest in elite level exercise. Candidates with insufficient biological background may be required to undertake a lecture unit in basic physiological principles during the year before entry.

3. **Duration:** The M.Sc. in Exercise Physiology is a two-year part-time programme. Year one consists of individual modules which are usually taught on two days per week (Thursday and Friday) for the duration of the academic year (Sep-May). Year two comprises a research project to be completed over the duration of a calendar year (Sep-Aug).

4. **Course Structure:** Year one: Instruction will consist of approximately 300 contact hours across taught modules comprising 60 ECTS credits, as follows:

   Cardiovascular physiology (5 credits)
   Endocrine Regulation (5 credits)
   Exercise Training and Nutrition (10 credits)
   Fluids, Heat and Metabolic physiology (5 credits)
Integrated Exercise Physiology (15 credits)
Muscle and Nerve (5 credits)
Research Skills (5 credits)
Respiration (5 credits)
Clinical Exercise Physiology (5 credits)

All modules will provide a focus on normal physiological function, pathological conditions and related aspects of exercise. Running themes throughout the course will encourage practical applications to human exercise, basics of data acquisition, recording and analysis and critical evaluation of published works. Normally lectures and workshops will take place in the mornings, with afternoons devoted to laboratory work.

Year two: The second year of the course will consist of a research project on some aspect of exercise physiology which will comprise 30 credits. Projects will be chosen in consultation with an expert Supervisor, with consideration being given to individual candidates’ interests. Practical work will be expected to occupy of the order of 300 hours. Organisation of the research will be a matter of negotiation between student and Supervisor, dependent on the time commitments of each. Meetings between student and Supervisor will take place on a regular basis, usually weekly but at least once per month.

5. Assessment:

Year one: All taught modules are assessed progressively throughout the year through a variety of formal reports, essays, practical work and through final written examinations (two three-hour papers) held during the Annual examination period. Students must also attend a viva voce examination following the end of year written papers. Subject to the discretion of the course of examiners, academic progress into year two of the course requires that students:

a) pass each module (pass mark 50%), and
b) achieve an overall combined grade of 60% or above for the year.

Students who pass each module (pass mark 50%) but achieve an overall combined grade less than 60% for the year will be offered a Postgraduate Diploma in Exercise Physiology and be required to exit the programme.

Year two: Assessment of the research project will be by dissertation which would be expected to be submitted within one year of enrolment. All dissertations are externally moderated. Students must obtain a pass to be awarded the M.Sc. degree. If students fail their dissertation they will be awarded a Postgraduate Diploma in Exercise Physiology. Students can be awarded the M.Sc. with Distinction if they achieve an overall mark of Distinction (70% or above) on their course work in year one, together with a mark of Distinction (70% or above) on their dissertation in year two.
6. **Course Director:** Professor Mikel Egaña

**Global Health (M.Sc./P.Grad.Dip.)**

1. **Introduction:** The M.Sc. in Global Health provides graduates with a greater appreciation of the global interconnectedness of health problems and equips them with a range of analytical and methodological skills to address the challenges of global health. Designed for individuals from a wide range of disciplines and professions, the programme adopts a multidisciplinary approach that integrates health and social science perspectives to analyse, design, implement and evaluate health programmes within a global context.

The course augments traditional approaches to public and international health by bringing together perspectives and insights from a range of health and social sciences in understanding and resolving the challenges of global health. The course also emphasises local experiences that resonate globally in the case of Ireland. The strongest emphasis within the course is on health in low-income settings and the impact of globalization.

2. **Admission Requirements:** The course is intended for individuals from a wide range of disciplines and professions who wish to develop an understanding of health issues that integrate health and social science perspectives in a global context. As global health is a multidisciplinary field, applicants can be Honors Bachelor graduates of any academic discipline. Applicants must have a demonstrated interest and/or experience in global health or health issues in low-income countries.

3. **Duration:** The course is offered on a one-year, full-time basis or on a two-year, part-time basis.

4. **Course Structure:** Students must obtain 90 ECTS credits to graduate: 60 credits for the taught component and 30 credits for the dissertation.

The taught component consists of compulsory modules designed to increase understanding of health determinants, health system organisation, health policy and financing, and various research methodologies and skills useful in the field of global health. In addition, students must take optional modules, which may reflect the diversity of their academic, research and career interests. Not all optional modules will be available every year.

Upon completion of the modules, students will undertake and complete a programme of research leading to the writing and submission of a dissertation. The dissertation may be written following research and/or internship placement with government departments, international agencies and civil society organisations in Ireland or elsewhere.
Part-time students will take at least four compulsory modules and two optional modules amounting to not less than 30 credits in year one, and the balance in year two.

Compulsory Modules (40 credits):

Basic Epidemiology (5 credits)
Epidemiology in Humanitarian Emergencies (5 credits)
Determinants of Health (5 credits)
Critical Reading of Statistics for Global Health (5 credits)
Health Economics and Financing (5 credits)
Health Policy and Systems (5 credits)
Key Skills in Global Health 1: Project Planning and Management (5 credits)
Principles of Social Research (5 credits)

Optional Modules (20 credits) (not all optional modules will be available every year):

Media and Advocacy for Global Health (5 credits)
Environmental Health and Climate Change (5 credits)
Culture, Health and Illness (5 credits)
Dynamics of International Aid for Global Health and Development (5 credits)
Frontiers of Knowledge in HIV and AIDS (5 credits)
Reproductive, Maternal and Child Health (5 credits)
Human Resources for Health (5 credits)
Human Rights and Inclusive Global Health (5 credits)
Nutrition and Global Health (5 credits)
Social Epidemiology (5 credits)
Systematic Reviews (5 credits)
Health Informatics and ICT (5 credits)

Research Dissertation (30 credits)
5. **Assessment:** Assessment of the modules will be done by assignment. The pass mark for all elements is 50%. Students may be permitted to re-submit a failed assignment, in which case the maximum mark that can be awarded is 50%. Compensation between modules is not permitted. Assessment of the research project will be by submission of a dissertation of a maximum of 15,000 words. Part-time students must achieve a minimum mark of 50% in each module in the first year in order to proceed to the second year. To qualify for the award of the M.Sc. degree, students must pass all taught modules amounting to 60 credits and achieve a pass in the research project/dissertation. In order to be awarded the M.Sc. with Distinction, students must achieve a distinction for the research dissertation and obtain an overall credit-weighted average mark for the course of 70% or above.

Students who have passed taught modules amounting to 60 credits but who do not proceed to, or who fail, the research project/dissertation, may be awarded the Postgraduate Diploma in Global Health. Such students who, in addition, achieve an overall average mark of at least 70% may be awarded the Postgraduate Diploma with Distinction.

A Distinction cannot be awarded if a student has failed any credit during the course.

6. **Course Director:** Professor Fiona Larkan

**Health Services Management (M.Sc. /P.Grad.Dip.)**

1. **Introduction:** The M.Sc. in Health Services Management programme is designed to encourage and support health professionals’ involvement in the management of health services. In addition to classes from several health and management related disciplines within the College, the course also includes contributions from leading policymakers and senior managers in the Irish health system, thus ensuring a practical focus and equipping participants with the skills and understanding needed to manage more effectively in a rapidly changing environment.

   Particular emphasis is placed on the importance of interdisciplinary exchange within small group settings. Case studies and class discussion facilitate the application of learning and ensures that the course imparts a theoretical framework of understanding whilst maintaining a practical focus. The course is continually updated to reflect developments occurring within our rapidly changing healthcare environment. A key feature within the course is the relatively small class size, which allows us to optimise learning for individual students.

2. **Admission Requirements:** A recognised third level qualification at the Bachelor’s degree level or above* in a professional discipline is necessary for entry into the M. Sc. in Health Services Management.
* Potential candidates with Irish nursing qualifications dating before 2002 might be exempt from this otherwise strict entry requirement of a Bachelor’s degree. Other candidates with non-degree qualifications due to the grading structure of their disciplines, are advised to contact the Course Coordinator directly.

Due to the limited number of places available in each academic year, a Selection Committee makes the final admission decisions according to a predefined scoring system that takes into account, amongst other things, the candidates’ career aspirations and academic track records. Occasionally we may invite short-listed candidates for an interview before making the final place offers.

For potential applicants who do not have English as their first language, and/or whose primary degree was delivered in a language other than English, they are advised to check with the Graduate Studies Office (+353 1 896 1166) regarding the documentation they need to submit to demonstrate their English proficiency for pursuing a course at the Masters’ level at Trinity College Dublin.

3. **Duration:** The M.Sc. Health Services Management course extends over two calendar years (i.e. students are expected to complete coursework related to their dissertation over the summer periods following each academic year). It is a two-year, part-time programme. Course attendance comprises three-day blocks each month (except during the summer period) to facilitate work release. Each course attendance day consists of six hours of lecture sessions, plus occasional workshops.

   Year One: September - June: Ten blocks of three days per month.
   Year Two: September - June: Ten blocks of three days per month.

4. **Programmes of study:** The course comprises 90 ECTS credits in total: 30 credits for the coursework component in each academic year and 30 credits for the dissertation.

   The first year of the M.Sc. course comprises five modules: Understanding the Healthcare Environment (Population Health; Law; and Marketing); Managing People in Healthcare Organisations (Management and Organisational Behaviour; Human Resources Management; and Organisational Development); Financial Management; Health Economics; and Information & Operations Management. The first part of the Research Methods module is also included in the first year.

   In the second year of the M.Sc. course, students take four modules: Health Policy; Strategic Management; Comparative Healthcare; and the second part of Research Methods and Healthcare Ethics; and the Research dissertation.
5. **Course Structure:** The breakdown of the ECTS credits is as follows:

Year One: Understanding the Healthcare Environment (5 credits), Managing People in Healthcare Organisations (10 credits), Financial Management (5 credits); Health Economics (5 credits); Information & Operations Management (5 credits)

Year Two: Health Policy (5 credits); Strategic Management (10 credits); Comparative Healthcare (5 credits); Research Methods and Healthcare Ethics (10 credits)

Research Dissertation (30 credits)

6. **Assessment:** Students must pass all modules in the first year and obtain approval from the Course Coordinator for their dissertation proposal in order to proceed to the second year of the course.

To qualify for the award of the M.Sc. degree, students must as a minimum,

(i) achieve an overall pass mark which is the credit-weighted average mark for all taught modules taken, and

(ii) achieve a pass mark in the dissertation.

In order to qualify for the award of the M.Sc. degree with Distinction, students must, as a minimum, achieve a final credit-weighted average mark for the coursework of at least 70%, and achieve a mark of at least 70% for the dissertation. The M.Sc. degree with Distinction cannot be awarded if a candidate has failed any module during the period of study.

Students who have passed taught modules in accordance with (i) and (ii) above, but who do not achieve a pass mark in the dissertation, cannot be awarded the M.Sc. degree. Such students may be awarded the Postgraduate Diploma. Students who have achieved an overall credited-weighted average mark of at least 70% will be eligible for the award of Postgraduate Diploma with Distinction. A Postgraduate Diploma with Distinction cannot be awarded if a candidate has failed any module during the period of study.

7. **Course Director:** Prof. Charles Normand

**Course Co-ordinator:** Ms Mandy Lee

**Course Administrator:** Ms Chloe Gauvin
Healthcare Infection Management (M.Sc./P.Grad.Dip.)

1. **Introduction:** The MSc in Healthcare Infection Management is primarily, but not exclusively, aimed at medical microbiologists, infectious diseases physicians, antimicrobial pharmacists, biomedical scientists, infection control specialists and public health workers. The course provides specialist teaching in healthcare infection and control and is delivered by the Department of Clinical Microbiology, School of Medicine in conjunction with partner organisations including St James’s and Tallaght Hospitals. The course also includes input from overseas experts in the area of healthcare infection.

2. **Admission requirements:** Applications will normally be received from those who hold one of the following qualifications:
   - A medical degree
   - An Honors Bachelor degree in Biomedical Sciences, Nursing, or Pharmacy, or Microbiology
   - An Honors Bachelor degree in another relevant science subject

   Applications may also be received from individuals with a minimum three years of relevant healthcare experience and suitable qualifications.

   Applicants meeting these requirements may be required to attend for interview.

3. **Duration:** One year, full-time or two years, part-time. The lecture content will be delivered over a series of one-week blocks. Research projects may take place in Trinity College, a partner organisation, or, where appropriate, in the student’s place of work.
4. **Course structure:** The core syllabus consists of the following modules:

6. Clinical Microbiology & Infectious Diseases (15 ECTS)
7. Antimicrobial Therapy & Resistance (15 ECTS)
8. Epidemiology & Infection Control (15 ECTS)
9. Multidisciplinary Management of Infection (15 ECTS)
10. Research Project/Dissertation (30 ECTS)

Part-time students should complete at least two taught modules during Year 1, and the remaining modules during Year 2, of the MSc. The multi-disciplinary module 4 is normally taken after successful completion of modules 1 to 3.

5. **Assessment:** Students must attend each of the modules of the course. Successful completion of assigned year 1 modules is required before proceeding to year 2 of the course. Student assessment will be based on a combination of assessment and coursework for each module. A 50% pass mark is required for each module, and also for the dissertation. In the calculation of the overall average mark, modules, including the dissertation, are weighted according to their ECTS credit value. The research dissertation will be assessed by the project supervisor, an internal examiner, and where required, an external examiner. All modules are designated non-compensatable.

To qualify for the award of the M.Sc. degree, students must pass taught modules amounting to 60 credits and achieve a pass in the research project/dissertation. In order to qualify for the award of Masters with Distinction, students achieve distinction for the research dissertation (70 % or above) and obtain an overall credit-weighted average mark for the course of 70 % or above. This must include a distinction mark in at least 2 of the taught modules and no fail grade in any module.

Students who achieve a pass in the taught modules amounting to 60 credits but who do not achieve a pass in the research project/dissertation, may be awarded a Postgraduate
Diploma in Healthcare Infection Management. A Postgraduate Diploma with distinction may be awarded to students who pass the taught modules amounting to 60 credits and who achieve a final overall average mark of at least 70%.

6. **Course Director:** Professor Thomas Rogers

**Course Coordinator:** Assistant Professor Helen Miajlovic

### Master in Medicine (P.Grad.Dip.– exit only)

1. **Introduction:** The Master in Medicine course is aimed at medical graduates in training who wish to develop their research skills, broaden their research interests, and develop advanced knowledge in selected areas of clinical and scientific practice. The course aims to equip students with the knowledge, skills and competence to work at an advanced level in clinical and scientific practice, and to develop and sustain evidence-based practice.

2. **Admission Requirements:** Candidates should be medically qualified (MB, BCh, BAO or equivalent from a recognised medical school), be registered with the Medical Council of Ireland (or equivalent overseas regulatory body) and should be at least 2 years post registration. In addition each candidate will be invited to attend for interview to assess his/her suitability for the course and to determine which optional strand the candidate will pursue in the second year of the course.

3. **Duration:** One year full-time / two years part-time.

4. **Course Structure:** Fulltime students are required to take a total of 12 taught modules (5 ECTS credits each) over two semesters. Part-time students are required to take 6 taught modules (5 ECTS credits each) each year over two semesters. All students are required to complete a dissertation (30 ECTS credits).

The taught modules consist of 6 mandatory (“core”) modules as follows:

- Professional and Ethical Practice of Medicine
- Research Skills I
- Research skills II
- Health Services Management
- Health Informatics
• Patient Safety for Clinical Specialists

Students will also take 6 optional modules from either of the following specialty areas:

Molecular and Translational Medicine (Strand A)

• Cellular Biology and Cell Signalling Mechanisms
• Introduction to Genetics and Development
• Molecular Oncology
• Molecular mechanism of Human Disease I
• Molecular Mechanisms of Human Disease II
• Laboratory skills for Clinical Specialists
• Clinical Skills for Clinical Specialists

Population Health and Health Implementation (Strand B)

• Public Health for Clinical Specialists
• Global Health for Clinical Specialists
• Developing & Prescribing Medicines for Special Populations
• Teaching and Learning for Clinical Specialists
• Health Economics
• Pharmacoepidemiology and Drug Safety
• Clinical Skills for Clinical Specialists

Students will also undertake a research and dissertation module (30 credits). Fulltime students will be expected to submit a dissertation of about 10,000 words on an approved research project by 31st August of the course year (submission will be 31st August of the second year for the part-time course).

5. **Assessment procedure**: Each module will be assessed by way of completion of written personal assignments after the module, within an agreed timeframe. Some of the modules may also be evaluated by way of an examination during or after completion of the module. These will be awarded a mark which will be taken into account (together with all continuous assessment marks) in the overall final evaluation of the course. The final mark for the course will be the credit-weighted average of all taught modules and the dissertation.
6. **Pass/Fail process:** To qualify for the award of the M.M. students must pass outright or by compensation all modules taken, including the dissertation, and obtain 90 credits.

Failure of a module: Obtaining an average of 50% of the available marks derived from each assessment type employed in the module is required to pass each of the taught modules. In cases where students fail to achieve a minimum of 50% in a written assignment or examination within a module, a resubmission / retaking of the examination will be permitted within agreed timelines. The students will only be allowed one resubmission / repeat of the examination and the maximum mark to be awarded for the module is 50%. Students may compensate for one fail mark in one assessment type within a module provided they achieve a minimum of 45% in that assessment and an average of at least 55% in the other assessment type(s) within the same module.

Compensation: Students who fail a module from either the core or optional strands, but obtain 40% or more marks in that module may compensate from marks awarded for the other modules in the same strand up to a total of 10%. Failure of a module on the second attempt, or failure of three or more of the taught modules in total, indicates failure of the whole course requiring exit from the course. Compensation is not possible for certain modules, including the dissertation; neither can the dissertation be used to compensate for any of the taught modules. The dissertation module must be passed in order for the student to be considered for an award of Master in Medicine degree.

7. **Progression:** All students register on the Master programme. Students in the part-time course must pass all core modules in order to progress to the second year optional modules. Full-time students will undertake the core and optional modules in parallel. All students must pass all 12 taught modules in order to undertake the research project. Students who have successfully passed the 12 taught modules of the course and accumulated 60 credits but who do not wish to proceed to the dissertation stage, or those who have submitted but failed the dissertation, will be considered for a Postgraduate Diploma (exit award). Students who have achieved an average of at least 70% in the overall average mark for the taught modules will be eligible for consideration for the award of Postgraduate Diploma with Distinction. Postgraduate Diploma with Distinction cannot be awarded if a candidate has failed any module during the period of study.

A dissertation will be submitted and examined in line with the General Regulations for Taught Graduate Courses stated in Part B (Section 3) of the University of Dublin Calendar part 2 for Graduate Studies and Higher Degrees for a given year. The award of a M.M. with Distinction shall require the achievement of a distinction for the dissertation, and an overall average mark for the course of at least 70%. A distinction cannot be awarded if a candidate has failed any module during the period of study.

8. **Course Location:** Trinity Centres in St James’ Hospital (SJH) and the Adelaide, Meath, National Children’s Hospital, Tallaght (AMNCH) and the Biomedical Sciences building, Trinity College Dublin.
9. **Course Director:** Professor Martina Hennessy  
**Course Co-ordinator:** Professor Mary Teeling

**Medical Imaging (M.Sc.)**

1. **Introduction:** This course is offered by the School of Clinical Medicine and is aimed at qualified radiographers. Students enrolled on the MSc in Medical Imaging will pursue a specific strand: Nuclear Medicine, Radiation Safety and Interventional Radiography, Magnetic Resonance Imaging or Computed Tomography. In September 2014 the Nuclear Medicine and Radiation Safety and Interventional Radiography strands will commence. The taught component of the course runs from September to May. At this stage, the student may opt to exit the course with a Postgraduate Diploma in Medical Imaging. From May to the end of August, the student will carry out a substantial piece of research work and present this in the form of a dissertation to be eligible for consideration for the award of M.Sc. in Medical Imaging.

2. **Aim:** The main aim of the course is to train and qualify Radiographers in the practice of either Nuclear Medicine, Radiation Safety and Interventional Radiography, Magnetic Resonance Imaging or Computed Tomography. The practical clinical experience required in each strand of the M.Sc. will be gained in the student's own department. The Nuclear Medicine strand is designed to give a solid academic base in the understanding of the safe use and management of isotopes, and a high level of practical experience in Nuclear Medicine imaging techniques. The Radiation Safety and Interventional Radiography strand aims to provide a solid academic background in the legislative framework governing radiation protection and a high level of practical experience in clinical Interventional Radiography. The Magnetic Resonance Imaging strand is designed to give a solid academic basis in the understanding of MR imaging, and a high level of practical experience in MRI techniques and in the safe use of MR imaging and associated equipment. The Computed Tomography strand is designed to give a solid academic basis in the understanding of Computed Tomography, and a high level of practical experience in Computed Tomography techniques and in the safe use of Computed Tomography imaging and associated equipment. The research methods and dissertation element of the course is designed to develop the student's research skills.

3. **Admission Requirements:** Applications will be accepted from those who:
   - Hold a BSc in Radiography, or
   - Hold an equivalent qualification,
   - Have access to a clinical placement in a Radiology Department. Candidates
will not be accepted onto the course unless they have a clinical placement,

- Otherwise satisfy the course admission committee that they have the ability to complete and benefit from the course.

4. **Duration:** The M.Sc. in Medical Imaging will run over 12 months, commencing in September.

5. **Course Structure:** The M.Sc. in Medical Imaging will incorporate both taught and practical components, with the taught component forming a substantial part. It is a course requirement that the student must spend a minimum of 15 hours per week on clinical placement in either a Nuclear Medicine Department, an Interventional Radiology Department, a Magnetic Resonance Imaging Department or a Computed Tomography Department, as appropriate for the strand on which the student has enrolled.

The M.Sc. course consists of taught modules (60 ECTS) and a research project culminating in a written thesis of 20,000 words (30 ECTS).

The list of common core taught modules currently available to students on the Nuclear Medicine, Radiation Safety and Interventional Radiography, Magnetic Resonance Imaging and Computed Tomography strands are:

2. Medico-Legal Aspects and Ethics, Health Services Management, and Risk Management and Clinical Audit (10 ECTS)

3. Clinical Practice (10 ECTS)

Mandatory additional modules in the Nuclear Medicine strand are:

4. Physics and Instrumentation, and Computer Technology, Radiation Protection and Quality Control (15 ECTS)

8. Clinical Applications of Nuclear Medicine and Hybrid Imaging (15 ECTS)

9. Anatomy, Physiology and Pathology applied to Nuclear Medicine (5 ECTS)

10. Radiopharmacy (5 ECTS)

Mandatory additional modules in the Magnetic Resonance Imaging strand are:

11. Physics, Instrumentation and Computer Technology of MRI (10 ECTS)
12. MR Imaging Techniques and Protocols, Anatomy, Physiology and Pathology I (10 ECTS)
13. MR Imaging Techniques and Protocols, Anatomy, Physiology and Pathology II (15 ECTS)
14. Safety and QA in MR (5 ECTS)

Mandatory additional modules in the Radiation Safety and Interventional Radiography strand are:

5. Practical Aspects of Radiation Protection and Radiation Protection Legislation (10 ECTS)
6. Physics, Instrumentation and Computer Technology (10 ECTS)
7. Quality Management and Quality Control (5 ECTS)
8. Interventional Imaging Techniques and Protocols, Anatomy, Physiology and Pathology (15 ECTS)

Mandatory additional modules in the Computed Tomography strand are:

9. Physics, Instrumentation and Computer Technology of CT (10 ECTS)
10. CT Imaging Techniques and Protocols, Anatomy and Pathology I (10 ECTS)
11. CT Imaging Techniques and Protocols, Anatomy and Pathology II (15 ECTS)
12. Radiation Protection and QA in CT (5 ECTS)

All students proceeding to the dissertation component will also take the following module:

10. Research Methods and Dissertation (30 ECTS)

6. **Assessment**: The taught modules are assessed primarily by written examination and clinical assessment. The clinical assessments include clinical portfolios, structured clinical evaluation (OSCE) examination, student presentations and an on-site practical clinical assessment. The written examination and OSCE is conducted in early May. All elements of the clinical assessment (portfolios, OSCE examination, oral presentation, etc.) must be completed.

To be allowed to proceed to the dissertation component leading to the degree of M.Sc. in Medical Imaging (Nuclear Medicine/ Radiation Safety and Interventional Radiography/Magnetic Resonance Imaging/Computed Tomography), students must achieve
an average mark of 65% on the taught component of the course. Additionally, the student
must achieve the pass mark of 50% in the assessments and written examination. No cross
compensation is allowed between modules.

Only students who satisfy the criteria outlined above may proceed to the research
component. MSc students will complete a substantial research project and submit a
dissertation of approximately 20,000 words. To satisfactorily complete a dissertation,
students must submit their dissertation by the prescribed date and must obtain a pass mark
of 50%. In order to qualify for the award of Masters with Distinction students must achieve a
final overall mark of 70% in the taught component element and at least 70% in the
dissertation or research element. A distinction cannot be awarded if a candidate has failed
any credit during the period of study.

Students who have passed the taught modules as outlined above but who do not choose to
complete the dissertation or research element may be awarded the Postgraduate Diploma in
Medical Imaging. In order to qualify for the award of Postgraduate Diploma with Distinction,
students must achieve an overall credit weighted average mark of at least 70% across all
modules. At the annual Court of Examiners, students who fail the taught component
assessments may at the discretion of the Court of Examiners, submit a supplementary
assessment by an appointed date. Marks awarded at supplementary assessments are
capped at the pass mark of 50%.

The examinations, coursework and dissertation are subject to external review.

7. **Course Director:** Ms Bernadette Moran

**Course Co-ordinators:** Ms Suzanne Dennan (Nuclear Medicine), Mr Brendan McCoubrey
(Radiation Safety and Interventional Radiography), Ms Ann Stafford (CT), Ms Deborah Prior
(MRI)

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**Molecular Medicine (M.Sc.)**

1. **Introduction:** Recent years have seen an enormous expansion in our knowledge of
molecular and cellular biology leading to an ever improved understanding of the essential
molecular mechanisms underlying the normal functioning of cells, tissues and organisms.
Molecular Medicine is a field that exploits these advances to characterise how normal cellular processes either fail, or are subverted, in disease. Developments in this area are continuing at an explosive pace with the integration of new disciplines such as Genomics and the related “omics” areas of transcriptomics, proteomics and metabolomics. Allied with other developments such as the applications of nanotechnologies in medicine, these are expected to transform diagnostic and therapeutic modalities into the future. Molecular Medicine will thus be an increasingly important aspect of medical practice and research into the future. This state-of-the-art programme aims to provide candidates with an understanding of the area and its implications for the practice of clinical medicine and research in the health and life sciences. It covers the latest theoretical and technological developments, and provides training in the practical aspects of molecular medicine, with the objective of ensuring the candidate is equipped with the skills necessary to conduct research and critically evaluate the scientific and medical literature.

2. **Admission Requirements:** Applications are invited from candidates with a minimum of an upper-second class Honors Bachelor degree or equivalent in a biological science, or an Honors Bachelor degree in a clinical science such as medicine, dentistry or veterinary; a pharmaceutical science such as pharmacy, or related area. Other appropriate professional or industrial experience (for example those working in the life sciences sector) will be taken into account. The candidate may be interviewed to establish his/her suitability for the course at the discretion of the Course Co-ordinators.

3. **Course Structure:** The course is available in both a one-year full-time and a two-year part-time format. It consists of lectures on cellular biology and molecular genetics as they apply generally to normal cell and tissue function and more specifically to disease processes such as cancer, immune dysfunction, and diseases with an inherited component. The course consists of a taught component and a research component.

The following taught module is mandatory:

Molecular Mechanisms of Human Diseases I (5 credits)
Candidates also select modules to the total value of 40 credits from the following:

**Cellular Biology and Cell Signalling Mechanisms (5 credits)**

**Introduction to Genetics and Development (5 credits)**

**Molecular Oncology (5 credits)**

**Human Genetics (5 credits)**

**Molecular and Cellular Immunology (5 credits)**

**Infectious Agents Biology and Clinical Implications (5 credits)**

**Molecular Mechanisms of Human Diseases II (5 credits)**

**Advanced Diagnostics and Therapeutics (5 credits)**

**Nanomedicine and Medicinal Chemistry (5 credits)**

The research component consists of a mandatory ‘Research Skills’ module which encompasses bioinformatics and statistics, ethical-legal aspects of medical research, a literature review, and two weeks of laboratory practicals in basic molecular and cellular techniques. Candidates will also complete a mandatory laboratory project over three months full-time (or the part-time equivalent).

Research component modules:

**Research Skills (15 credits)**

**Research Project (30 credits)**
4. **Assessment:** Theoretical understanding of the course will be evaluated by written examination. Laboratory practical reports will be included in assessing the candidate’s proficiency. The research component will be assessed by dissertation. The grade scheme for modules is as follows: Distinction (D) = 70%+; Pass (P) = 50-69%; Fail 1 (F1) = 40-49%; Fail 2 (F2) = 0-39%. Both taught and research components must be passed in order for a candidate to pass the year. The taught component must be passed in order to progress to the research component. A Distinction requires an overall mark of 70% or above including 70% or above in the research project/dissertation. Compensation is only allowed for up to two taught modules amounting to a maximum of 10 credits where F1 grades are achieved. Failure of more than two taught modules where F1 grades are achieved or receipt of an F2 grade for any module will require re-assessment of all failed taught modules by supplemental exam. Ordinarily a maximum of 4 supplemental exams will be allowed. An external examiner with a record in the field of molecular medicine will be appointed to ensure the academic excellence of the course. Examinations and dissertations will be externally moderated. If a student does not pass the dissertation, but successfully passes the taught components, a Postgraduate Diploma will be awarded in which case the graduate cannot subsequently re-register for the course in order to complete the M.Sc. in Molecular Medicine.

5. **Course Director:** Professor Ross McManus

6. **Course Co-ordinators:** Dr Michael Freeley Dr Anthony W. Ryan, Prof Yuri Volkov and Dr Henry Windle.

**Molecular Medicine (P.Grad.Dip.)**

1. Recent years have seen an enormous expansion in our knowledge of molecular and cellular biology leading to an ever improved understanding of the essential molecular mechanisms underlying the normal functioning of cells, tissues and organisms. Molecular Medicine is a field that exploits these advances to characterize how normal cellular
processes either fail, or are subverted, in disease. Developments in this area are continuing at an explosive pace with the integration of new disciplines such as Genomics and the related “omics” areas of transcriptomics, proteomics and metabolomics. Allied with other developments such as the applications of nanotechnologies in medicine, these are expected to transform diagnostic and therapeutic modalities into the future. Molecular Medicine will thus be an integral aspect of clinical practice in the 21st century and this state-of-the-art programme aims to provide candidates with an understanding of the area and its implications for the practice of clinical medicine and research in the health and life sciences. It covers the latest theoretical and technological developments, and provides training in the practical aspects of molecular medicine, with the objective of ensuring the candidate is equipped with the skills necessary to conduct research and critically evaluate the scientific and medical literature.

The Postgraduate Diploma in Molecular Medicine is designed to make available a high quality course to those individuals who cannot avail of the Masters course, due to the high demands it makes on a candidate’s time. Thus the Postgraduate Diploma may be an attractive option for, among others, those working in business, industry, clinical, or other disciplines, who wish to gain a comprehensive knowledge in this area with a view to professional progression or proceeding to do a higher degree.

2. Admission Requirements: Candidates should normally have a minimum of an upper-second class Honors Bachelor degree or equivalent in a biological science, or an Honors Bachelor degree in a clinical science such as medicine, dentistry or veterinary; a pharmaceutical science such as pharmacy, or related area. However, individuals with other appropriate professional or industrial experience (for example those working in the life sciences sector) will also be considered. The candidate may be interviewed to establish his/her suitability for the course at the discretion of the Course Co-ordinators.

3. Course Structure: The course is delivered in a one-year format and carries 60 ECTS credits. It consists of lectures on cellular biology and molecular genetics as they apply generally to normal cell and tissue function and more specifically to disease processes such as cancer, immune dysfunction, and diseases with an inherited component. It includes
modules on molecular signaling and therapeutics, molecular and population genetics, glycobiology, nanomedicine and medicinal chemistry. The core module entitled “Practical Research and Self-directed Learning” includes topics such as bioinformatics, statistics, ethical-legal aspects of the discipline, plus journal clubs, a literature review, a laboratory practical and delivery of a lecture. The course consists of the core module (30 credits) and a selection of taught modules (totalling 30 credits), which the student may choose, in consultation with Course Co-ordinators, from the list below.

Core Module:

Practical Research and Self-directed Learning (30 credits)

Optional Modules to the total value of 30 credits should be chosen from the following:

Cellular Biology & Cell Signaling Mechanisms (5 credits)

Introduction to Genetics and Development (5 credits)

Molecular Oncology (5 credits)

Human Genetics (5 credits)

Molecular and Cellular Immunology (5 credits)

Infectious Agents, Biological and Clinical Applications (5 credits)

Molecular Mechanisms of Human Disease I (5 credits)

Molecular Mechanisms of Human Disease II (5 credits)

Advanced Diagnostics and Therapeutics (5 credits)

NanoMedicine and Medicinal Chemistry (5 credits)

4. Assesment: The core module will be assessed by written examinations and assessment of submitted work. The taught modules will be assessed by written examinations. The grade scheme for modules is as follows: Distinction (D) = 70%+; Pass (P)
= 50-69%; Fail 1 (F1) = 40-49%; Fail 2 (F2) = 0-39%. Both core and combined taught modules must be passed in order for a candidate to pass the year. A Distinction requires an overall mark of 70%+ including 70%+ in the core module. Compensation is only allowed for up to two taught modules where F1 grades have been achieved. More than two F1 grades and/or any F2 grades will require re-assessment of failed taught modules by supplemental exam. Ordinarily a maximum of four supplemental exams will be allowed. An external examiner with a record in the field of molecular medicine will be appointed to ensure the academic excellence of the course. Examinations and submitted work will be externally moderated.

5. **Course Director:** Professor Ross McManus

**Course Co-ordinators:** Professors Aideen Long, **Prof** Ross McManus, Dr Michael Freeley, Dr Anthony W. Ryan, Derek Morris, **Prof** Yuri Volkov and Dr Henry Windle.

**Molecular Pathology (M.Sc)**

The course is under review and not currently available to new entrants

1. **Introduction:** The aim of this course, which is run jointly with the D.I.T., Kevin Street, is to provide postgraduate education in Medical Laboratory Science for those wishing to pursue a career in this field. The course will provide an advanced programme in the molecular basis of disease and will address the interaction of key areas such as cell biology, molecular genetics and immunology with the aetiology, pathogenesis and investigation of the disease process. While the main content of the course will deal with the broad field of biomedical science, students will in addition, choose modules in specialist subject areas from one of the following:

1. Clinical Chemistry
2. Haematology
3. Clinical Immunology/Transfusion Science
4. Medical Microbiology
5. Cellular Pathology
2. Admission Requirements: Applicants must have a good Honors Bachelor degree in biomedical science, or related area, or hold Part 1 or Part 2 Fellowship examination of the Institute of Biomedical Science or have a suitable equivalent qualification. Selection for the course may require an interview. Applicants for the part-time course must be employed in an appropriate post in a hospital, veterinary or other suitable laboratory and must provide evidence that project facilities will be available to them. Preference will be given to applicants with two or more years of postgraduate work experience.

3. Course Structure: The course will be offered on a full-time basis, over one year, and also on a part-time, block-release basis, over two years. The course will commence in September. The course will operate on a student-centred approach with tutorials and seminars in addition to a formal lecture/workshop programme. Students are required to take the following modules:

1. Protein conformational disorders (6 credits)
2. Professional scientific development 1 (6 credits)
3. Inflammation, genetics and oncogenic processes in pathology (12 credits)
4. Nutritional influences on pathological processes (6 credits)
5. Immunopathological processes (3 credits)
6. Advanced scientific methods (3 credits)
7. Specialist topic (9 credits)
8. Professional scientific development 2 (6 credits)
9. Virology (9 credits)
10. Project by research (30 credits)

4. Assessment: Students will present a portfolio of work throughout the course.

5. Dissertation: A dissertation or project is a mandatory component of the course and the project will be presented in a traditional dissertation format.

6. Examinations: A formal examination will be held at the end of the year for the full-time course and at the end of two years for the part-time course. One paper in the specialist option will be taken and assessment marks attained during the course will be included with the final examination mark. To achieve a pass, students will be required to have achieved a satisfactory standard in the examination, the portfolio and the project.
Course Co-ordinators: Professor Thomas R. Rogers (T.C.D.); Dr Celine Herra and Dr Steve Meaney (D.I.T.)

Neuroscience (M.Sc./P.Grad.Dip.)

1. **Introduction:** The aim of this course is to provide multidisciplinary training in neuroscience topics ranging from molecular to behavioural, to students wishing to develop specialised knowledge and practical expertise in the Neurosciences. The course will appeal to biology graduates that already have a basic understanding of nervous system function, and to psychology graduates whose primary degree was not biology based. The course will also be of interest to those with medical training and want to diversify into research. The course is intended to equip participants with the skills necessary to progress into a career in biomedical, pharmaceutical or neuropsychological research, or to embark on a doctoral research programme.

2. **Admission requirements:** To be eligible for admission, candidates must hold a third level qualification. Application for admission will be accepted, subject to availability, from candidates who have a degree in Biological Science, Psychology, Medicine or Allied Health Sciences. Normally candidates should have achieved at least an upper-second class Honors Bachelor degree or its equivalent.

3. **Duration:** One-year, full-time or two-years, part-time.

4. **Course Structure:** During the Michaelmas and Hilary Terms, students will take a series of lectures, laboratory sessions, seminars and workshops, involving approximately 200 contact hours. Each student will conduct a laboratory-based research project of three months (full-time) or six months (part-time) duration which will be supervised by a member of academic staff. The M.Sc. carries 90 ECTS, and is comprised of the following modules:

   Six Core Modules

   Statistics and Bioinformatics (5 credits)

   Experimental Skills (5 credits)

   Experimental Neuroscience (5 credits)

   Literature Review (5 credits)

   Biochemical Basis of Neuropharmacology (5 credits)

   Research Project (30 credits)
And select seven of the following eleven:

Form and Function of the Nervous System (5 credits)
Neuropharmacology (5 credits)
Drug Development (5 credits)
Neuroimmunology (5 credits)
Chronic Pain (5 credits)
Neural Engineering (5 credits)
Neuroimaging (5 credits)
Receptor Topics in Neuroscience (5 credits)
Cellular Neuroscience (5 credits)
Journal Clubs (5 credits)
Clinical Research in Neuroscience (5 credits)

5. Assessment:

For full-time and part-time students, taught modules will be assessed by examination papers at the end of Michaelmas or Hilary Term, together with in-course assessments. Supplemental examinations will be required where less than 30% is achieved in the examination. No supplemental examinations will be allowed for in-course assessments. Compensation will be allowed between modules, provided that more than 30% has been obtained in the failed module(s) and sufficient marks exist in other modules for an overall mark of at least 50%. Marks for the research project/dissertation are final. No compensation will be permitted between the taught modules and the research project/dissertation. The research project will be assessed by dissertation (normally not more than 25,000 words).

To qualify for the award of the M.Sc. in Neuroscience, students must pass taught modules amounting to 60 credits and achieve an average mark of at least 50% across the taught modules as well as in the research project/dissertation. The award of a Masters with Distinction shall require the achievement of a distinction (70% or above) for the project/dissertation, and an overall average mark for the course of at least 70%. A distinction cannot be awarded if a candidate has failed any module during the period of study.

If a student does not pass the project/dissertation, but successfully passes the taught components amounting to 60 credits, a Postgraduate Diploma will be awarded. Students who, in addition, have achieved an overall average mark of at least 70% will be eligible for consideration for the award of Postgraduate Diploma with Distinction. A Postgraduate Diploma with Distinction cannot be awarded if a candidate has failed any module during the period of study.
6. **Course Director:** Professor Kumlesh Dev

**Occupational Therapy (M.Sc.)**

1. **Introduction:** This course is offered in the School of Medicine by the Discipline of Occupational Therapy.

2. **Aim:** This course is aimed at developing occupational therapists’ critical thinking skills in the area of occupational therapy theory, evidence-based practice and research knowledge and skills. The overall purpose of the course is to develop students’ professional knowledge and facilitate advancement of their professional practice.

3. **Admission requirements:** Candidates will require a good recognised Honors Bachelor degree (upper-second class honors or above) in occupational therapy or a recognised qualification in occupational therapy (*i.e.* Diploma in Occupational Therapy). Applicants without an occupational therapy degree must satisfy the course committee that they have the ability to complete and benefit from the course, and will be required to produce evidence of further study.

4. **Duration:** The course is offered on a one-year, full-time, or two-year, part-time, basis depending on student enrolment.

5. **Course Structure:** The M.Sc. carries 90 ECTS credits and is comprised of five core modules (60 credits) and a dissertation (30 credits):

   - Advanced Occupational Therapy Theory 1 (10 credits)
   - Advanced Occupational Therapy Theory 2 (10 credits)
   - Occupational Science (10 credits)
   - Evidence Based Practice (10 credits)
   - Research Management and Pragmatics (10 credits)
   - Qualitative Research Methods (5 credits)
   - Quantitative Research Methods (5 credits)
   - Dissertation (30 credits)
6. **Examination and assessment:** Students will be assessed by assignments and project work set by the co-ordinators of the various modules within the course. In the event of failure of any one assignment the student must re-submit the assignment(s) in question in the manner and at the time determined by the Court of Examiners. A satisfactorily re-submitted assignment will be awarded a passing grade. Students who fail a re-submitted assignment will be excluded from any further participation in the course by the Dean of Graduate Studies who will act in consultation with the Course committee and on the advice of the Course Co-ordinator. Students will be required to complete a dissertation of approximately 20,000 words.

7. **Course Co-ordinator:** Professor Deirdre Connolly

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**Pharmaceutical Medicine (M.Sc.)**

1. **Introduction:** The M.Sc. course is administered by the Department of Pharmacology and Therapeutics, School of Medicine. It has been developed to provide medical and science graduates with specialist knowledge and skills in the area of pharmaceutical medicine. Intake is on an annual basis. There is a separate entry for the Postgraduate Diploma in Pharmaceutical Medicine.

2. **Admission:** Prospective students for this course must hold a primary degree in either medicine or another relevant health or science subject. Candidates should have a minimum of two years’ practical experience in their area of qualification/pharmaceutical industry.

3. **Course Structure:** The course involves completion of twelve taught modules (60 credits) and the additional undertaking of a research and dissertation module (30 credits). The taught modules are as follows:

   - Principles of discovery of medicines and development planning (5 credits)
   - Non-clinical testing, pharmaceutical and early clinical development (5 credits)
   - Exploratory and confirmatory clinical development (5 credits)
   - Clinical Trials (5 credits)
   - Regulatory affairs, drug safety and pharmacovigilance (5 credits)
   - Healthcare marketplace; economics of healthcare (5 credits)
Drug safety: Pharmacoepidemiology, pharmacovigilance and risk management (5 credits)

Biologicals and advanced therapies (5 credits)

Special populations: clinical trial practice and regulation (5 credits)

Medicines regulation (5 credits)

Health Economics (5 credits)

Project management in medicines development (5 credits)

The modules consist of formal teaching sessions and personal assignments and are run over 18 months on a part-time basis. Some of the modules are undertaken by way of distance learning. In the research module, students undertake a research project (including field work), and submit a dissertation by the end of the second year of the course.

4. **Course Assessment:** For the taught modules, students are assessed by way of continuous assessment of personal assignments and written examinations. Students must pass all modules taken in the first year in order to be permitted to proceed to the second year of the course. Students who fail to pass taught modules may present for supplemental examination or re-submit required work as appropriate within the duration of the course.

To qualify for the award of the M.Sc., students must achieve an overall mark of at least 50% which will be the credit-weighted average of all modules including the research project/dissertation, and must pass outright or by compensation taught modules amounting to 60 credits and achieve a mark of at least 50% in the research project/dissertation. Students may compensate failed modules accounting for not more than 10 credits provided that they achieve an overall average of at least 50% across taught modules, pass taught modules amounting to at least 50 credits and get a mark of no less than 45% in the failed module(s).

The dissertation should be submitted and examined in line with the General Regulations for Taught Graduate Courses stated in Part B (Section 3) of the University of Dublin Calendar Part 2 for Graduate Studies and Higher Degrees for a given year. The award of a Masters with Distinction shall require the achievement of a distinction (70% or above) for the dissertation, and an overall average mark for the course of at least 70%. A Distinction cannot be awarded if a candidate has failed any module during the period of study.

Students who have successfully passed each of the taught modules of the course and accumulated 60 credits but who have failed the dissertation will be considered for a Postgraduate Diploma (exit award).
5. **Location:** Trinity Centre for Health Sciences,
   St James's Hospital, Dublin 8.

6. **Course Director:** Professor Mary Teeling
   **Course Co-ordinator:** Professor MaryJo MacAvin

**Physical Sciences in Medicine (M.Sc./P.Grad.Dip.)**

1. **Introduction:** This course offers the academic training required for a career in scientific support of medical procedures and technology. The course is offered in the Faculty of Health Sciences and is co-ordinated through the Medical Physics Departments in St. James’s Hospital and St. Luke’s Hospital, Dublin.

2. **Duration:** One-year full-time or two-years part-time.

3. **Course Structure:** The course is delivered as lectures, demonstrations, seminars, practicals and workshops.

   All students must take a Core Track. This Core Track delivers the fundamental and generic knowledge by professionals working in the area of Medical Physics / Clinical Engineering. Upon completion of this, the student then takes one of three Specialisation Tracks in Diagnostic Radiology, Radiation Therapy or Clinical Engineering. The running of each of these tracks is subject to a minimum number of students taking each track. In parallel with the taught components, the student undertakes a dissertation. A pass mark in all three required sections (Core Modules, Specialisation Track modules and Dissertation) will result in the awarding of M.Sc. in Physical Sciences in Medicine. If the student does not pass the dissertation component but successfully passes the taught modules, the award of Postgraduate Diploma will be awarded.

   **Core Modules:**
   - Basic Medical Sciences (5 credits)
   - Imaging Physics and Technology 1 (5 credits)
   - Introduction to Radiotherapy and Non-Ionising Imaging (5 credits)
   - Introduction to Radiation Protection and Radiation Physics (5 credits)
Scientific skills for the Medical Physicist / Clinical Engineer (10 credits)

Medical Technology and Information Systems (5 credits)

Specialisation Track Modules (Diagnostic Radiology):

Imaging Physics and Technology 2 (10 credits)
Ionising and Non-Ionising Radiation Protection (5 credits)
Medical Informatics and Image Processing (5 credits)
Radiation Physics and Dosimetry (5 credits)

Specialisation Track Modules (Radiation Therapy):

Dosimetry for Radiation Therapy (5 credits)
Radiobiology and Radiation Protection in Radiotherapy (5 credits)
Radiotherapy Equipment and Quality Assurance (5 credits)
Treatment Planning and Dose Calculations (5 credits)

Specialisation Track Modules (Clinical Engineering):

Human Medical Device Interface (5 credits)
Medical Informatics and Equipment Management (5 credits)
Medical Technology 1: Critical Care (5 credits)
Medical Technology 2: Interventions, Therapeutics and Diagnostics (5 credits)
Principle & Practice of Medical Technology Design, Prototyping & Testing (5 credits)

Project Work and Dissertation (30 credits)

4. **Assessment:** The Core Module and Specialisation Track modules are assessed by means of written examinations and assignments. General College regulations apply with regards to examinations and coursework. The student must pass all examinations and assignments. The pass mark for examinations and assignments is 50%. Supplemental examinations and assignments will be available for those students that fail any of the components up to a maximum of 50% of the total number of components. A dissertation relevant to the applications of Physical Sciences in Medicine must be submitted and passed as assessed by an external examiner.

Both components (taught modules and dissertation) must be passed for the degree of Masters in Physical Sciences in Medicine to be awarded. No compensation between these two elements is available. Successful completion of the course work (i.e. a pass in all taught modules), but not the dissertation, will result in a Postgraduate Diploma being awarded to the student. An external examiner monitors the assessment process.
5. **Location:** The course is taught primarily at the Trinity Centres for Health Sciences at St. James’s Hospital; the Education Centre, Adelaide and Meath incorporating the National Children’s Hospital, Tallaght; and the Education Centre, St. Luke’s Hospital. Some lectures and practicals/demonstrations are held in St. James’s Hospital or other hospitals and institutions as appropriate.

6. **Course Director:** Professor Gerard Boyle  
   **Course Co-ordinator:** Professor Tim Foran

7. **Module Leads:**
   - Core Track: Professor Neil O’Hare  
   - Diagnostic Track: Professor Geraldine O’Reilly  
   - Radiotherapy Track: Professor Brendan McClean  
   - Clinical Engineering Track: Mr Fran Hegarty

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**Psychoanalytic Psychotherapy (M.Sc./P.Grad.Dip.)**

1. **Introduction:** This is a two year course in psychoanalytic psychotherapy, conducted as a part of a four year training programme in psychoanalytic psychotherapy. The course provides students with a comprehensive account of psychoanalytic systems as they have developed from the work of Sigmund Freud to the current time. The course provides a comprehensive conceptual and critical understanding of the theoretical basis of psychoanalytic psychotherapy, as well as a thorough training in the application of psychoanalytic theory to psychoanalytic clinical practice.

2. **Aim:** The central aim of this course is to provide students with the theoretical basis for training in adult psychoanalytic psychotherapy and child and adolescent psychoanalytic psychotherapy. The course provides a thorough training in psychoanalytic theory from Freud through Klein, Bion, Winnicott, and the Independent Tradition, while strongly emphasising the aspect of clinical training with adults.
3. **Admission Requirements:** Applications are invited from candidates who are graduates of recognised University courses, with a first class or second class Honors Bachelor degree from a recognised Institution.

4. **Duration:** The course is offered on a part-time basis over two years.

5. **Course Structure:** The course is two years in duration part-time and carries a total of 90 ECTS credits. Teaching will take place mostly during the two College terms in Year 1 and Year 2. Teaching will take place on Tuesday evenings and all day Wednesday during term. Some teaching also takes place on an irregular basis out of term in order to support the Infant Observation module and in relation to the ongoing clinical components of the programme. Students continue their personal therapy out of term as well as in term. The course taught modules are as follows:

   Module 1: Theoretical Frameworks I (10 credits)
   Module 2: Infant Observation I (10 credits)
   Module 3: Infant, Child & Adolescent Development (10 credits)
   Module 4: Clinical Concepts (5 credits)
   Module 5: Infant Observation II (10 credits)
   Module 6: Theoretical Framework II (10 credits)
   Module 7: Clinical Practice (5 credits)
   Module 8: Research (30 credits)

   Modules 1 to 4 are completed in the first year of the course, with modules 5 to 8 being completed in the second year of the course.

6. **Assessment:** Academic assessment will be based on essays, in-class written assessments, and a dissertation of 12,000 – 15,000 words. Students must pass all modules taken in Year 1 in order to proceed to Year 2 of the course.

   Students who pass each of the taught modules and the dissertation are eligible for the award of M.Sc. in Psychoanalytic Psychotherapy. Students who pass each of the modules but do not complete the dissertation will be awarded the Postgraduate Diploma in Psychoanalytic Psychotherapy.

7. **Course Director:** Professor Michael Fitzgerald

   **Course Co-ordinator:** Professor John O’Connor
Respiratory Physiotherapy (M.Sc./P.Grad.Dip.)

1. Introduction: The aim of this course is to develop physiotherapists' knowledge and skills in the physiotherapy management of the patient with respiratory disorders and to objectively evaluate their practice through research.

2. Admission: Suitable candidates for the course will be Physiotherapists with a relevant undergraduate degree leading them to be eligible for membership of the Irish Society of Chartered Physiotherapists.

3. Location: The course will be mainly based in the Trinity Centre for Health Sciences, St James's Hospital and in the Clinical Physiotherapy Department in St James Hospital.

4. Course Content: The course will take place on a two year part-time basis and will include the following modules:

   - Cardiovascular and Respiratory Physiology (10 credits)
   - Exercise Prescription (10 credits)
   - Clinical Exercise Prescription (5 credits)
   - Research Methods and Statistics (10 credits)
   - Physiotherapy in Respiratory Medicine (10 credits)
   - Clinical Practice in Respiratory Physiotherapy (15 credits) and
   - Research Dissertation (30 credits)

   Students who wish to complete the requirements for the award of Postgraduate Diploma (60 credits) will do all modules except the Research Dissertation.

5. Assessment: Students must achieve 50% in each module of the course, including the dissertation, to fulfil the criteria for the award of the M.Sc. in Respiratory Physiotherapy. Students will be required to complete a research dissertation of approximately 12,000 words. This research project will be carried out in the second year. Each student will be assigned a supervisor whom they will meet with at regular intervals. The student will be required to submit a research proposal and an ethics application prior to commencing the data collection. At the end of this module the student will present their research findings in a
dissertation format and paper format. The dissertation will follow the following format: Literature review, Research Methodology, Results, Discussion. The student will also submit a report of the research in a paper format of no more than 3,500 words. Candidates for the Postgraduate Diploma must achieve 50% in all modules to fulfil the criteria for the award.

6. **Course Director:** Professor Juliette Hussey

**Sports and Exercise Medicine (M.Sc.)**

1. **Introduction:** This course is offered in the Faculty of Health Sciences by the Department of Anatomy (Human Performance Laboratory). The course is specifically designed for qualified medical doctors and chartered physiotherapists who have a keen interest in sports, particularly those who are currently involved in sport. The aims of this course are:

   1. To present a scientific basis for the study of all aspects of Sports and Exercise Medicine
   3. To define guidelines for the scientific monitoring and training of athletes.
   4. To enable participants to identify practices for various age groups.
   5. To expose participants to a wide range of specialities relevant to sport and exercise.

2. **Admission Requirements:** Applicants should be well-qualified medical graduates, and chartered physiotherapists (minimum upper-second class Honors Bachelor degree) with minimum one year’s post qualification experience. Selection will be made by *curriculum vitae* in early May of year of entry.

3. **Duration:** The course is of one year’s duration, full-time, five days a week during the three terms of the year.

4. **Course Structure/Content:** The topics dealt with in the course are: acute injuries, basic exercise biochemistry, cardiology, clinical anatomy, computer applications in data analysis, dermatology, dentistry, exercise physiology, ear, nose, throat, emergency medicine (including CPR), individual sports, medical records, ophthalmology, orthopaedics, paediatrics, pharmacology, physiotherapy, podiatry, psychology, radiology, respiratory physiology, resistance training, sports nutrition, sports equipment, statistics and women in sport.
The M.Sc. carries 90 ECTS credits, and comprises the following modules:

Basic and Clinical Anatomy (10 credits)
Sports and Exercise Physiology (10 credits)
Scientific Research, Design and Data handling (10 credits)
Sports and Exercise Medicine (10 credits)
Clinical examination, clinical skills and sports clinics (10 credits)
Basic and Clinical Anatomy (10 credits)
Research Project (30 credits)

5. **Assessment:** Modules are assessed by in-course and official end of term examinations consisting of:

(a) **Written examination** – Multiple Choice Questions and Short Answer Questions

(b) **Practical examinations** – competence in musculoskeletal examination techniques, clinical cases, athletic assessment.

All modules must be passed (>50%). There is no compensation between written papers and clinical examination. The dissertation can only be undertaken when the taught modules have been completed successfully. The degree is externally monitored and examined.

6. **Honorary Course Director:** Professor Moira O’Brien

11. **Course Co-ordinators:** Professor Nicholas Mahony and Mr Bernard Donne

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**M.Sc. in Translational Oncology (M.Sc./P.Grad.Dip)**

1 **Introduction**

The M.Sc. in Translational Oncology will give both scientists and clinicians an in-depth understanding of the theoretical and practical aspects of the causes and treatment of cancer. This course explores the cellular, molecular and genetic basis of cancer and will cover both the
scientific and clinical challenges pertinent to the management of tissue-specific cancers. All aspects of cancer treatment from diagnostic imaging, to standardised and ‘individualised’ molecular targeted therapies will be explored. All students will undertake a three month research project in a designated oncology research laboratory, where they will receive training in cellular and molecular oncology research.

2 Admission requirements

This M.Sc. in Translational Oncology is open to both scientific and clinical graduates. This is a one year full-time course. Scientific, dental or equivalent candidates must have a minimum of a 2.1 honours Bachelor degree in any biologically-related discipline. Medical graduates must have a MB, BCh, BAO or equivalent from a recognised medical school. All applicants should provide two academic or clinical references confirming their eligibility and suitability for the course, before their application can be considered. Applicants should also include a 500 word personal statement addressing why they are interested in the course, their suitability for the course and how it will impact on their future career development. Applications for admission to the course will be made through the online system normally not later than June 30th. Late applications will be considered provided places are available.

3 Duration: 1 year full-time

4 Course structure:

Students will be required to complete twelve taught modules (5 ECTS each) and a research project with dissertation worth 30 ECTS. All core modules are compulsory:

- 1. Cellular and molecular basis of cancer
- 2. Site-specific cancers: Scientific and clinical perspectives
- 3. Tumour Immunology
- 4. Radiation, chemotherapy and molecular targeted therapies
- 5. Cancer epigenetics, gene regulation and stem cells
• 6. Molecular pathology and diagnostic imaging
• 7. Clinical statistics and medical ethics
• 8. Molecular oncology research skills
• 9. Research project and dissertation

Students will choose four of six optional modules (5 ECTS each)

• 10. Obesity, metabolism and physical activity
• 11. Drug development from discovery to commercialization
• 12. Therapeutic targeting of cellular instability in childhood and adult cancers
• 13. Tumour microenvironment
• 14. Clinical pharmacology and therapeutic toxicity
• 15. Pediatric and surgical oncology and health economics

5 Assessment of modules (component weightings inclusive of assessment, where relevant)

a) Core modules 1, 2 and 4 will be assessed by way of multiple choice questions (20%) and a single 2 hour written exam (80%) at the end of the Michaelmas term. Module 3 will be assessed by a short question exam (50%) and group assessment (50%), module 5 will be assessed by short question exam (60%) and an essay (40%) and module 6 will be assessed by written assignments (40%) and a short question exam (60%).

b) Core module 7 will be assessed in two parts, the first part will be assessed by a 1 hour MCQ statistics exam and a case study (50%). The second part of core module 7 on ethics will be assessed by way of a class debate (50%).

c) Core module 8 will be evaluated by written assignments (33%) and a short question exam (33%) based on the seven practical sessions, in addition to a group poster presentation (34%).

d) In terms of module overall weighting, all the core modules contribute equally to the final award of the M.Sc. in Translational Oncology, namely 5.5% each.

e) The optional modules will be assessed by way of a 2 hour written exam (80%) and 1500 word brief report (20%).

f) In the calculation of the overall mark for the course, modules are weighted according to their ECTS credit value Accordingly, 40 ECTS will be allocated to assessments of the 8 core
modules, 20 ECTS for the optional modules and the remaining 30 ECTS will be allotted to the literature review, presentation and dissertation based on the research project (module 9), which will carried out in the Hilary and Trinity terms respectively.

(g) Supplemental examinations for modules 1-6 and 10-15 will be in the form of a written exam that will account for 100%. Final grades for modules requiring a supplemental will be capped at 50%.

6 Assessment of dissertation (submission requirements, weighting and a pass level)
The research and dissertation module (module 9) will account for one third of the overall mark. This will include 25% for the research dissertation, 5% for a literature review and 4% for research project oral presentation. The dissertation will be based on a laboratory research project. The dissertation should not exceed 15,000 words (excluding appendices). The dissertation will be assessed by external review and the student may be required to attend for interview (viva voce) to discuss the dissertation. This literature review will be no more than 5,000 words and will be assigned by the laboratory supervisor. At the end of their research placement, all students will be required to present the findings of their research project to the course director and module co-ordinators. Students will be graded on critical thinking, research design, data presentation and analysis.

7 Course Assessment

a) Pass/Fail: Each module, including the dissertation, must be passed independently at a minimum of 50%. The final mark for each module will be the average mark derived from each of the assessment types (i.e. personal assignments and examinations). The written examination must be passed independently to pass the module.

b) Failure of a written personal assignment / examination:
(i) In cases where students fail to achieve a minimum of 50% in a written assignment, a resubmission will be permitted with a deadline for resubmission of 3 weeks from the publication of the initial results. Only one resubmission will be allowed, and the maximum mark awarded for the resubmitted assignment is 50%.
(ii) Students, who fail to achieve a minimum of 50% in a written examination, will be permitted to repeat that examination during the appropriate supplemental examinations. Students will only be allowed to repeat the examination on one occasion and the maximum mark awarded for the supplemental examination is 50%.

c) Failure of a module.
(i) Students who fail these modules in the Michaelmas term examinations will have the opportunity to re-sit these examinations in the Hilary Term. (ii) Modules 7 and 8 are taught in Hilary and Trinity terms and will be assessed during these terms. Any students failing any of the modules 10-15 will be able to repeat these examinations in July.

d) Compensation.
Students who fail a core or optional module but obtain 40% or more may compensate with another module examination of the same format in the same term, up to a maximum of 10%. A student may only compensate two exams in the full academic year. No compensation is allowed for research dissertation.

e) Dissertation:
To begin the research project, students must have completed the taught elements for both terms. The dissertation module must be passed. Compensation is not possible for the dissertation; neither can the dissertation be used to compensate for any of the taught modules. In cases where students fail to achieve a minimum of 50% in the literature review, a resubmission will be permitted with a deadline for resubmission of 3 weeks from the publication of the initial results.

8 Progression

a) All students registered on the M.Sc. programme must successfully pass all taught modules. The Court of Examiners will meet to moderate examination marks related to the course and all the results obtained by the students, prior to the final publication of results.

b) Students who have successfully passed the twelve taught modules of the course and accumulated 60 ECTS but who do not wish to proceed to the dissertation stage, or if they have submitted but then failed the research project and dissertation, will be considered for a Postgraduate Diploma in Translational Oncology (exit award).

c) Students who have achieved an overall average of at least 68% in the unrounded overall average mark for the taught modules, where modules amounting to at least half of the credits attaching to the taught modules each have a mark of at least 70% (30 ECTS), but who do not wish to proceed to the dissertation stage will be eligible for consideration for the award of Postgraduate Diploma in Translational Oncology with Distinction. Students must have achieved at least 70% in each of 6 taught modules to be eligible The Postgraduate Diploma with Distinction cannot be awarded if a candidate has failed any module during the period of study.
d) A Masters dissertation will be submitted and examined in line with the General Regulations for Taught Graduate Courses stated in Part B (Section 3) of the University of Dublin Calendar part 2 for Graduate Studies and Higher Degrees for a given year. To qualify for the award of the MSc. in Translational Oncology students must achieve an overall mark of at least 50% which will be the credit weighted average of all modules including the research project/research dissertation, must pass taught modules amounting to 60 credits and achieve an average mark of at least 50% across the taught modules as well as in the research project/dissertation.

e) The award of a Masters with Distinction shall require the achievement of at least 68% in the unrounded overall average mark for the taught modules, where modules amounting to at least half of the credits attaching to the taught modules each have a mark of at least 70% (30 ECTS) and at least 70% from the research dissertation. A distinction cannot be awarded if a candidate has failed any module during the period of study.

**Course location:** Trinity Centre for Health Sciences, St. James’s Hospital, Dublin 8

**Course director:** Dr. Graham Pidgeon

**Course co-ordinator:**
Dr. Joanne Lysaght
Dr. Jacintha O’Sullivan

**School of Nursing and Midwifery**

**Cancer Care (M.Sc./P.Grad.Dip)**

1. **Introduction:** This course has been developed to meet the new demands and challenges within the health care system and specifically within cancer care. The course is firmly grounded in a body of knowledge and clinical expertise that aims to promote excellence in the area of cancer care practice. It is also designed to provide an
academically-robust education for the participants and the various modules offered develop and complement subjects undertaken at degree or equivalent level.

2. **Admission Requirements:**

   1. current registration as a nurse on the active register maintained by the Nursing and Midwifery Board of Ireland,
   2. a minimum of two year’s clinical experience in nursing with one year spent in a recognised cancer care setting,
   3. for a period of 500 hours in year one of the course, be employed in the area of a recognised cancer care nursing setting,
   4. normally hold an Honors Bachelor degree in nursing, or
   5. otherwise satisfy the selection panel that they have the ability and/or the experience to complete and benefit from the course.

3. **Duration:** Two years, part-time.

4. **Course Structure:** The course comprises both academic and clinical components. Students are required to attend College for one week in September and one week in January, as well as day release. Subject to notice, other study days may be necessary. Students are also required to undertake clinical placement in year one and work in a recognised oncology setting for 500 hours.

5. **Modules and European Credit Transfer System (ECTS):**

   Theory and Practice of Enquiry Methods for Health Care (10 credits)
   Theoretical Foundations of Nursing and Oncology Nursing (10 credits)
   Foundations in Cancer Care (10 credits)
   Psychosocial Issues in Cancer Care (10 credits)
   Oncology Care 1: control and management of treatment side-effects (10 credits)
   Oncology Care 2: control and management of treatment side-effects (10 credits)
   Dissertation (30 credits)
The M.Sc. carries 90 credits and the P.Grad.Dip carries 60 credits.

6. **Progression:** All students register on the M.Sc. course in the first instance. To progress to the second year of the course students must successfully complete all the requirements of the first year as detailed in the course handbook. Students may, following consultation with the course co-ordinator, opt not to progress to the second year of the course. If a student chooses such an option, the student will be eligible for the award of a Postgraduate Diploma in Cancer Care. To be awarded a Postgraduate Diploma, a student must successfully complete all first year modules and clinical practice requirements.

7. **Assessment and examinations:** A combination of assessment strategies is used to assess the learning outcomes for the course. In the second year a dissertation must be submitted. The pass mark for all assessments is 50%. Each module must be passed independently and all professional practice assessments must be passed without compensation. In cases where students fail to achieve a pass grade in a written assignment, a re-submission will be permitted with a deadline for re-submission of four weeks from the publication of the initial results. Only one re-submission will be allowed, and the maximum mark awarded for the re-submitted assignments is 50%. If a student fails a module on the second attempt, this indicates failure of the whole course.

8. **Classification of Award:** The Postgraduate Diploma may be awarded at two levels: (i) Postgraduate Diploma, and (ii) Postgraduate Diploma with Distinction, which shall require an aggregate of at least 70% in all taught modules passed. The M.Sc. may be awarded a mark of Distinction. The award of a taught Masters with Distinction shall require the achievement of a distinction for the dissertation, and an aggregate of a distinction in all other modules. A distinction cannot be awarded if a candidate has failed any credit during the period of study.

9. **Re-entry to the M.Sc.:** Students who are eligible for the award of Postgraduate Diploma may opt not to be awarded the P.Grad.Dip. and may enter the second year of the Masters course within four years of having become eligible for the award of P.Grad.Dip. Students who were awarded a P.Grad.Dip in Cancer Care from Trinity College Dublin within the previous four years may enter directly into year two of the course, with the permission of the course committee. Such students must undertake additional modules of up to 30 credits, in addition to the research dissertation, to accrue up to an additional 60 credits. For those students, the Masters will therefore be awarded on the basis of up to 120 ECTS credits. Students who previously exited with the Postgraduate Diploma as a consequence of failing the dissertation will not be permitted to re-enter the Masters course.

10. **Course Co-ordinator:** Professor Brian Keogh
Nurse Tutor: Ms. Antoinette Kirwan

M.Sc. Community Health

P.Grad.Dip. Community Health

Introduction: The aim of this inter-professional course is to enable students to develop knowledge required to practice in community healthcare and to prepare students for their role as community healthcare practitioners. The course will also provide students with an opportunity to critically explore, critique and evaluate the community healthcare arena. Graduates of this course will be expected to promote and develop excellence in their community practice setting.

Admission Requirements:

Applicants

1. will be required to hold a minimum 2.1 grade (Second class Honours) in a relevant primary degree in the applicant’s field of practice.
2. must have current registration with the relevant professions’ regulatory body.
3. whose first language is not English will need a recognised English language qualification in line with the requirements as specified in the Postgraduate Calendar Part 3 Section 1.5 Language of Instruction.

Duration: This course is offered on a two-year part-time from 2016/17 and a full-time basis from 2017/18.

Course structure:

The Masters is the equivalent of 90 ECTS and the exit Postgraduate Diploma is the equivalent of 60 ECTS. The course commences with one full study week followed by one to two study days per week. Part-time students are required to complete six taught modules in year one and a dissertation in year two while full-time students must complete all the course requirements within one year. All taught modules are mandatory.

Core Modules:

1. Epidemiology and Healthcare Statistics 10 ECTS
2. Theory and Practice of Enquiry Methods for Health Care 10 ECTS
3. Ethics and Law in Health Care 10 ECTS
4. Determinants of Health 10 ECTS
5. Health Promotion and Management of Chronic Disease 10 ECTS
6. Principles and Practice of Community Health 10 ECTS
7. Dissertation 30 ECTS

Assessments and examinations:

1. A combination of assessment strategies is used to assess the learning outcomes for the course and submission of a research dissertation is mandatory for full time and part time students. The pass mark for all assessments is 50%.

2. In cases where students fail to achieve a pass mark in a written examination, a resubmission will be permitted in the Supplemental period.

3. In cases where students fail to achieve a pass mark in an assignment, a resubmission will be permitted within a stated timeframe.

4. Only one resubmission will be allowed and the maximum mark awarded for the resubmitted assignment is 50%.

5. If a student fails a module on the second attempt, this indicates failure of the whole course.

6. Compensation is permitted on taught modules where the following conditions apply:
   i. Students may compensate for marks between 45% and 49% in only one taught module with marks in excess of 50% gained in another taught module provided the average of the two is 50% or greater.
   ii. Students who pass by compensation will be required to exit the course with a Postgraduate Diploma, or may apply to repeat the course on a full fee.
   iii. Students who pass by compensation and exit with a postgraduate diploma will not be permitted to re-enter the MSc course in Community Health at a later stage.

Progression: All students register on the MSc course. To progress to the second year part-time students must successfully complete all the requirements of the first year of the course. The Court of Examiners will meet at the end of Year 1 to moderate examination marks of the taught modules of the course and all the results obtained by part-time students in year 1, in order to return end-of-year results to the Academic Registry. The Court of Examiners will also moderate all marks obtained by the full-time students in order to return their final results to the Academic Registry.

Part-time students eligible to rise to year 2 may, following consultation with the Course Coordinator, opt not to progress to the second year. Full-time students who have completed all the taught modules may opt not to submit their dissertation. Such students will be eligible for consideration for the exit award of a Postgraduate Diploma in Community Health. Students who have opted to receive an exit Postgraduate Diploma in Community Health may apply subsequently to re-enter the Masters course in Community Health to complete the dissertation. Following completion of the Masters requirements the student will inform the Registrar of his/her intention to rescind the Postgraduate Diploma in Community Health and have the credit obtained during the Postgraduate Diploma in Community Health integrated into the Masters degree. The student will be required to submit the original Postgraduate Diploma in Community Health and/or any duplicates that have been issued. The time limit for
applying to complete the credits required for the Masters degree will normally be up to 5 years following completion of the Postgraduate Diploma in Community Health.

A student who fails the dissertation and who has satisfactorily completed the required ECTS credits for a Postgraduate Diploma (exit award), may exit with such an award. However, where the Postgraduate Diploma is awarded as a result of a fail or unsatisfactory progression, it is not possible for the candidate to return with the Postgraduate Diploma award to work towards a Masters and rescind the Diploma.

To be awarded an exit Postgraduate Diploma, a student must successfully complete six modules to the value of 60 ECTS. The Postgraduate Diploma may be awarded at two levels (i) Postgraduate Diploma and (ii) Postgraduate Diploma with Distinction which shall require an aggregate of at least 70% in all taught modules passed. Postgraduate Diploma with Distinction cannot be awarded if a candidate has failed any module during the period of study.

To be considered for an award of MSc in Community Health, students must pass all modules including the dissertation module and accumulate 90 ECTS. The award of a Masters with Distinction shall require the achievement of a distinction for the dissertation, and an aggregate of at least 70% in all taught modules. A distinction cannot be awarded if a candidate has failed any module during the period of study.

**Course Director:** Dr Catherine McCabe

**Children’s Nursing (H.Dip.)**

1. **Introduction:** This course, which is currently taught by the School of Nursing and Midwifery, aims to develop and expand knowledge, skills and attitudes in nurses towards infants, children, their parents and family as a unit in society. The course is designed to equip nurses to deliver primary health care, acute, rehabilitative and palliative care as required and to foster the process of continuing education and research in children’s nursing practice.
2. **Admission Requirements:** Applicants must satisfy the following entry criteria

1. Be on at least one of the following divisions of the register as held by the Nursing and Midwifery Board of Ireland: general, psychiatric, intellectual disability
2. Be on the active register as held by the Nursing and Midwifery Board of Ireland
3. Have six months fulltime post-registration Clinical Nursing Experience
4. Have completed a relevant academic qualification which satisfies admission requirements for the course.
5. Have Garda clearance for working with children and adolescents.

3. **Duration:** One-year full-time; this course will run only if there is a minimum number of students. During the course duration students are employed by Tallaght Hospital.

4. **Location:** The course is delivered between the School of Nursing and Midwifery, and in Tallaght Hospital, Dublin, and other selected sites.

5. **Course content:**

The H.Dip. in Children's Nursing carries 60 ECTS. The course comprises both classroom and clinical practice components and incorporates children's nursing theory and practice, management, legal and ethical aspects of children's nursing, and research appreciation.

Modules

NU7901 Fundamental Concepts of Children's and Young People's Nursing

NU7902 Evidence Based Nursing Care of Children, Young People and Families in Illness

NU7906 Contemporary Evidence and Research for Children, Young People and their families.
NU7907 Clinical Skills for Children's Nursing Practice (Medical Nursing Placement 1) (10 ECTS)

NU7908 Clinical Skills for Children's Nursing Practice (Surgical Nursing Placement 2) (10 ECTS)

NU7909 Clinical Skills for Children’s Nursing Practice (Specialist Nursing Placement 3) (10 ECTS)

NU7910 Evidence Based Approaches to Adolescent Health in Young Peoples Nursing. (5 ECTS)

NU7911 Evidence Based Approaches to Health, Well-being and Care in Children's Nursing (5 ECTS)

6. **Assessments and examinations:** Continuous assessment of both practical and theoretical work will be used and a written examination will be undertaken. The pass mark is 50% and all clinical assessments must be passed without compensation.

Successful candidates will be eligible to apply for registration as a Registered Children’s Nurse with the Nursing and Midwifery Board of Ireland.

7. **Course Co-ordinator:** Prof. Jacqueline Whelan

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**Clinical Health Sciences Education (M.Sc. / P.Grad.Dip.)**

1. **Introduction:** This interdisciplinary course is intended to facilitate health service professionals to develop their clinical and classroom teaching skills and to give them skills in curriculum design, development and evaluation. The M.Sc. carries 110 ECTS credits and the P.Grad.Dip. carries 60 ECTS.

2. **Admission Requirements:**
1. Registration as a health services professional with the appropriate body and working in a relevant area and
2. An honors degree in a relevant discipline or equivalent professional and academic qualifications
3. A minimum of three years’ full-time recent clinical experience practice or equivalent since registration. This experience must be in clinical areas where students are undertaking placements.

**Entry Requirements specific to Nurses and Midwives**

To enter a course of education and training leading to registration in the Nurse Tutor division of the Register (RNT), the applicant must:

1. Be actively registered as a nurse/midwife in a division of the register maintained by The Nursing and Midwifery Board of Ireland.
2. Applicants must hold a bachelor’s degree in Nursing or Midwifery or an allied health subject relevant to nursing or midwifery.
3. Have at least three years or equivalent clinical experience as a registered nurse/midwife prior to entry. This experience must be in clinical areas where student nurses or midwives are undertaking placements.

Or

4. Be a nurse or midwife who already holds a master’s degree in nursing/midwifery or in an allied health science subject. Students who already hold an M.Sc. in nursing/midwifery or an allied health science subject and who meet the criteria set out above may be eligible to complete the first year of the course and exit with a Post Graduate Diploma in Clinical Health Sciences.

Note, Nursing and midwifery students who wish to apply to register as a nurse tutor with The Nursing and Midwifery Board of Ireland should be aware that they are required to have a Master’s degree.
The names and personal identification numbers (PINs) of nurses and midwives undertaking the course will be forwarded to The Nursing and Midwifery Board of Ireland for entry to the Registered Nurse Tutors candidates register.

3. **Duration:** M.Sc.: two years, part-time. P.Grad.Dip: one year, part-time.

4. **Course Structure:** The course comprises a series of modules covering the theory and practice of health sciences education, educational psychology, curriculum development and research/quality improvement aspects of health sciences education.

5. **Modules and European Credit Transfer System (ECTS):**

Modules

Theory and Practice of Enquiry Methods for Healthcare (10 credits)

Theory and Practice of Clinical Health Sciences Education (20 credits)

Facilitating Learning in the Practice Environment (10 credits)

The Psychology and Sociology of Education (10 credits)

Curriculum Issues in CHSE (20 credits)

Dissertation module (30 credits)

Nurses and midwives who wish to be accepted onto the Nursing and Midwifery Board of Ireland register of nurse tutors, who already hold a Masters degree (or equivalent), but who do not hold a Masters or Bachelors degree (or equivalent), in nursing or midwifery, will be required to undertake one further module: Advancing the Theoretical Foundations of Nursing/Midwifery (10 ECTS).
6. **Progression:** All students register on the M.Sc. in Clinical Health Sciences Education course in the first instance. To progress to the second year of the course, students must successfully complete all first year modules as detailed in the course handbook. Students may exit the course with a P.Grad.Dip. in Clinical Health Sciences Education provided they have successfully completed all first year modules. Nurses and Midwives who successfully complete the first year of the course and who already hold a Master’s Degree in Nursing or Midwifery (or in an allied health science subject) will be eligible to apply for registration as a Nurse Tutor with The Nursing and Midwifery Board of Ireland.

Nursing and Midwifery students who exit the course with a P.Grad. Diploma in Clinical Health Sciences Education and who do not hold an MSc will not be eligible for registration as a nurse tutor with the Nursing and Midwives Board of Ireland. In this instance, The Nursing and Midwifery Board of Ireland will be notified of any nursing students who exit the course prior to completion of the M.Sc. (or the Post Graduate Diploma where applicable) so that their name may be removed from the nurse tutor candidate register. Students who wish to exit the course at this point who want to complete an M.Sc. in Clinical Health Sciences Education at a later stage, may choose to do so but must return within four years of completing year one.

7. **Assessment and examinations:** A combination of assessment methods is used to assess the learning outcomes for the course. In the second year a dissertation must be submitted. The pass mark for all assessments is 50%. Each module must be passed independently and all practice assessments must be passed. One episode of compensation is permitted. If a student fails a module on the second attempt, this indicates failure of the whole course. Compensation may be permitted at the discretion of the supplemental Court of Examiners, under specific conditions as outlined in the course handbook.

8. **Classification of Award:** The Postgraduate Diploma may be awarded at two levels (i) Postgraduate Diploma and (ii) Postgraduate Diploma with Distinction which shall require an overall average mark of at least 70% across taught modules. The award of a taught Masters with Distinction shall require the achievement of a distinction for the dissertation, and an
overall average mark for the course of at least 70%. A distinction cannot be awarded if a candidate has failed any module during the period of study.

9. **Re-admittance to M.Sc.:** Students who are eligible for the award of Postgraduate Diploma may opt not to be awarded the P.Grad.Dip. and may apply for re-admittance to the second year of the masters course within four years of having become eligible for the award of P.Grad.Dip. Students who opt to apply to be re-admitted to the course will be required to rescind their P.Grad.Dip. prior to admission to the course.

Students who previously exited with the Postgraduate Diploma as a consequence of passing by compensation will not be permitted re-admittance to the Masters.

11. **Course Co-ordinator:** Prof. Caitriona NicPhilibin

**Dementia (M.Sc./P.Grad.Dip./P.Grad.Cert)**

1. **Introduction:** This interdisciplinary course has been developed to meet the new demands and challenges within the health care system and specifically within dementia care. The course is firmly grounded in a body of knowledge and clinical expertise that aims to promote excellence in the area of dementia care practice. It is also designed to provide an academically robust education for the participants and the various modules offered develop and complement subjects undertaken at degree or ‘equivalent’ level.

2. **Admission Requirements:**

1. Current registration on the appropriate division of the Nursing and Midwifery Board of Ireland live register (applicable only to nurses undertaking this course);
2. a minimum of one year’s professional experience in supporting persons with dementia within the past two years;

3. **for the duration of the course all applicants are required to be engaged in an area relevant to dementia care**;

4. normally hold an honors degree in a relevant discipline, or

5. otherwise satisfy the selection panel that they have the ability to complete and benefit from the course, subject to the discretion/permission of the Dean of Graduate Studies.

### 3. **Duration**: Two-years, part-time or one-year, full-time.

### 4. **Course structure**: All modules are obligatory unless otherwise indicated below. Students are required to attend the University for approximately 20 days over the course of the first year including one full week in September. Full-time students have additional study days. Approximately 10 days attendance is required in the second year. Students re-admitted to year two are encouraged to attend some extra study days.

Students take six of the modules listed below and a dissertation.

### 5. **Modules and European Credit Transfer System (ECTS)**: The M.Sc. carries 90 ECTS credits, the P.Grad.Dip. carries 60 ECTS credits, and the P.Grad.Cert. carries 30 ECTS credits.

*Modules*

1. Theory and Practice of Enquiry Methods for Health Care (10 credits)

2. Ethics and Law in Health and Social care *(students may choose module 3 instead)* (10 credits)
3. Clinical Practicum (*students may choose module 2 instead*) (10 credits)

4. Ways of Understanding Dementia and Dementia Care (10 credits)

5. Critical Issues in Assessment and Care Planning (10 credits)

6. Enhancing the Experience of Living with Dementia (10 credits)

7. Fundamentals of Palliative and End-of-Life Care (10 credits)

8. Dissertation (30 credits)

6. **Progression:** To progress to the dissertation year, part-time students must successfully complete all the requirements of the P.Grad.Dip year of the course as detailed in the course handbook. Students may, following consultation with the course Co-ordinator, opt not to progress to the dissertation year. Full-time masters students may choose not to progress to the dissertation during year one. If a student chooses either option, the student will be eligible for consideration for the award of a Postgraduate Diploma in Dementia provided that six modules of the course have been successfully passed and 60 ECTS have been accumulated. Alternatively, the student may be eligible for consideration to exit with an award of a Postgraduate Certificate in Dementia; provided that three specialist modules have been successfully completed and 30 ECTS have been accumulated.

7. **Assessment and Examinations:** A combination of assessment strategies is used to assess the learning outcomes for the course. In the second year a dissertation must be submitted. The pass mark for all assessments is 50%. Each module must be passed independently without compensation. In cases where students fail to achieve a pass grade in a written assignment, a re-submission will be permitted with a deadline for re-submission as outlined in the course handbook. Only one re-submission will be allowed, and the maximum mark awarded for the re-submitted assignment is 50%. If a student fails a module on the second attempt, this indicates failure of the whole course.
Clinical component assessment: Each student must be deemed to have achieved at least Level 3 ‘Competent’ on the novice to expert scale at the end of year one of the course. The clinical competency document is graded ‘Pass’ or ‘Fail’ – students must be graded competent on all domains to receive a Pass to successfully complete their clinical component assessment. Compensation may be permitted at the discretion of the supplemental Court of Examiners, under specific conditions as outlined in the course handbook.

8. **Classification of Award:** The Postgraduate Diploma may be awarded at two levels (i) Postgraduate Diploma and (ii) Postgraduate Diploma with Distinction, which shall require an overall average mark of at least 70% across all taught modules. The M.Sc. may be awarded a mark of Distinction. The award of a taught Masters with Distinction shall require the achievement of a distinction for the dissertation, and an overall average mark for modules of the course, other than dissertation, of at least 70%. A distinction cannot be awarded if a candidate has failed any module during the period of study.

9. **Re-admittance to M.Sc.:** Students who are eligible for the award of Postgraduate Certificate may opt not to be awarded the P.Grad.Cert. and may re-enter the P.Grad.Dip. / M.Sc. within four years of having become eligible for the award of P.Grad.Cert. Students who are eligible for the award of Postgraduate Diploma may opt not to be awarded the P.Grad.Dip and may enter second year of the masters course within four years of having become eligible for the award of P.Grad.Dip. Students who were awarded a TCD P.Grad.Cert. in Dementia within the previous four years may re-enter directly into the P.Grad.Dip. / M.Sc., with the permission of the course committee. Such students must undertake an additional 30 ECTS (to include an Enquiry Proposal) for the P.Grad.Dip. and an additional 60 ECTS (to include a Dissertation) for the M.Sc. For those students, the Postgraduate Diploma will be awarded on the basis of up to 60 ECTS and the Masters of up to 90 ECTS. Students who were awarded the P.Grad.Cert. must rescind their P.Grad.Cert. in order to re-enter onto the P.Grad.Dip./M.Sc. Students who were awarded a TCD P.Grad.Dip. in Dementia within the previous four years may enter directly into year two of the course,
with the permission of the course committee must undertake the dissertation module of 30 ECTS, to accrue up to a total of 90 ECTS credits.

Students who opt to apply to be re-admitted to the course will be required to rescind their P.Grad.Cert or P.Grad.Dip. in order to be re-admitted onto the M.Sc. course.

Students who previously exited with the Postgraduate Diploma as a consequence of passing by compensation will not be permitted re-admittance to the Masters in Science course.

10. **Course Co-ordinator**: Prof. Michael Brennan

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**Dementia (online) (P.Grad.Cert.)**

1. **Introduction**: The online Postgraduate Certificate in Dementia course is open to a wide range of professionals who have experience in delivering a dementia care approach within practice in the last two years. Interdisciplinary input to the design, development and delivery of this course stems from a variety of dementia experts.

Students on this course from a variety of backgrounds including for example: nursing, medicine, occupational therapy, social work, physiotherapy, chaplaincy and other disciplines are eligible to apply.

The course is designed to strengthen and develop the knowledge, skills, competencies and attitudes of the students, thus enabling them to fulfil their highest potential in the personal, professional and practice arena of dementia care.

For the duration of the course, students will be employed in an area where the principles of dementia care are applied in caring for individuals with dementia and their families / significant others. Upon successful completion of this three specialist dementia module course, students will obtain a Postgraduate Certificate in Dementia (P.Grad.Cert.in Dementia).
It is anticipated that graduates of this course, in applying their learning, will be enabled to promote and develop excellence in dementia care in their practice setting thus ensuring that people with dementia live a dignified and meaningful life.

This course also aims to make a valuable contribution to the development of dementia care knowledge, research and practice. The design is such that it will promote collaboration between disciplines of nursing, medicine, occupational therapy, social work and other professionals working with persons living with dementia and their families/significant others.

Students who successfully complete the Postgraduate Certificate in Dementia course without compensation are eligible to continue on to study for a Postgraduate Diploma in Dementia or a M.Sc. in Dementia from The University of Dublin Trinity College within five years of completing the P.Grad. Cert. in Dementia course.

The learning outcomes have been developed in accordance with the QQI/NQAI and IUQB frameworks at level 9. The three dementia specialist modules are also taken as part of the Postgraduate Diploma in Dementia course which satisfies the educational requirements of the Clinical Nurse Specialist framework and which has Category 2 approval from the Nursing and Midwifery Board of Ireland.

2. Admission Requirements:

Candidates must:

1. have a minimum of one year’s professional experience in supporting persons with dementia within the past two years;

2. **For the duration of the course all applicants are required to be engaged in an area relevant to dementia care;**

3. normally hold an honors degree in a relevant discipline; or

4. otherwise satisfy the selection panel that they have the ability to complete and benefit from the course, subject to the discretion/permission of the Dean of Graduate Studies.

Note, this course is open to a wide range of professionals.
Nurses working in Ireland undertaking this course must have current registration on the appropriate division of the Nursing and Midwifery Board of Ireland live register.

3. **Duration**: One-year, part-time.

4. **Course structure**: The course takes place over 1 academic year and is delivered online. The first module is due to be available to registered students in September each year. It is expected that the online delivery will be between September to December and between January and June.

5. **Modules and European Credit Transfer System (ECTS)**: The online P.Grad.Cert. in Dementia carries 30 ECTS credits.

Module

1. Critical Issues in Assessment and Care Planning (10 credits)
2. Enhancing the Experience of Living with Dementia (10 credits)
3. Ways of Understanding Dementia and Dementia Care (10 credits)

6. **Progression**: Students register on the P.Grad.Cert.in Dementia (Online).

Students who pass all modules without compensation and who are eligible for the award of Postgraduate Certificate may opt not to be awarded the P.Grad.Cert. and may enter the P.Grad.Dip. / M.Sc. within four years of having become eligible for the award of P.Grad.Cert.

Students who opt to apply to be re-admitted to P.Grad.Dip./M.Sc. will be required to rescind their P.Grad.Cert. in order to be re-admitted onto the P.Grad.Dip./M.Sc. course.
Students who previously exited with the Postgraduate Certificate as a consequence of passing by compensation will not be permitted re-admittance to the M.Sc./P.Grad.Dip.course.

7. **Assessment and Examinations**: A combination of online assessment strategies is used to assess the learning outcomes for the course. The pass mark for all assessments is 50%. Each module must be passed independently. In cases where students fail to achieve a pass grade in a written assignment, a re-submission will be permitted with a deadline for re-submission as outlined in the course handbook. Only one re-submission will be allowed, and the maximum mark awarded for the re-submitted assignment is 50%. If a student fails a module on the second attempt, this indicates failure of the whole course.

Compensation may be permitted at the discretion of the supplemental Court of Examiners, under specific conditions as outlined in the course handbook.

8. **Classification of award**: The Postgraduate Certificate may be awarded at two levels (i) Postgraduate Certificate and (ii) Postgraduate Certificate with Distinction, which shall require an overall average mark of at least 70% across all taught modules. A distinction cannot be awarded if a candidate has failed any module during the period of study.

9. **Course Co-ordinator**: Prof. Michael Brennan

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**Gerontological Nursing (M.Sc./P.Grad.Dip./P.Grad.Cert)**

1. **Introduction**: The aim of this course is to strengthen and develop the knowledge, skills and attitudes of participants, thus enabling them to fulfil their highest potential in their professional lives. The students are enabled to develop further the skills necessary to
critically evaluate and to undertake research which underpins gerontological nursing practice.

2. Admission Requirements:

1. Current registration as a nurse on the active register with the Nursing and Midwifery Board of Ireland; and

2. A minimum of one year full-time or equivalent recent clinical nursing practice since first registration; and

3. Normally, hold an honors degree in Nursing Studies or equivalent; or

4. Otherwise satisfy the selection panel that they have the ability to complete and benefit from the course, subject to the discretion/permission of the Dean of Graduate Studies.

3. Duration: Two years, part-time.

4. Course Structure:

Year One – The course will commence with one full study week followed by one or two study days per week throughout the academic year. The course comprises both academic and clinical components. Each of the two components must be completed successfully. The students will be employed full-time in the Department of Medicine for Older People, St James’s Hospital, Dublin, or in any other approved clinical location.

Year Two - Approximately 10 days attendance is required in the second year. Students re-admitted to year two are encouraged to attend additional study days.

5. Modules and European Credit Transfer System (ECTS):

Module
1. Promoting Health and Well-Being with the Older Person (10 credits)
2. Advancing Gerontological Nursing Practice (10 credits)
3. Theory and Practice of Enquiry Methods for Health Care (10 credits)
4. Advancing the Theoretical Foundations of Gerontological Nursing (10 credits)
5. Fundamentals of Palliative and End of Life Care (students may choose module 6 instead) (10 credits)
6. Ethics and Law in Health and Social Care (students may choose module 5 instead) (10 credits)
7. Clinical Practicum (10 credits)
8. Dissertation (30 credits)

The M.Sc. carries 90 ECTS credits, the P.Grad.Dip. carries 60 ECTS credits and the P.Grad.Cert carries 30 ECTS.

6. **Progression:** Students may register on the P.Grad.Cert, P.Grad.Dip or M.Sc. course. To progress to the dissertation year, part-time M.Sc. students must successfully complete all the requirements of the P.Grad.Dip. as detailed in the course handbook. Students may, following consultation with the Course Co-ordinator, opt not to progress to the dissertation year. The student will be eligible for consideration for the award of a Postgraduate Diploma in Gerontological Nursing provided that six modules of the course have been successfully passed and 60 ECTS have been accumulated. Alternatively, the student may be eligible for consideration to exit with an award of a Postgraduate Certificate in Gerontological Nursing; provided that three specialist modules have been successfully completed and 30 ECTS have been accumulated.

7. **Assessment and Examinations:** A combination of assessment strategies is used to assess the learning outcomes for the course. Each module must be passed independently and all practice assessments must be passed without compensation. In cases where students fail to achieve a pass grade in a written assignment, a re-submission will be permitted with a deadline for re-submission as outlined in the course handbook. Only one re-submission will be allowed and the maximum mark awarded for the re-submitted assignment is 50%. If a student fails to achieve a pass mark in an assessment on the second attempt,
this indicates an overall failure of the course. Compensation may be permitted at the
discretion of the supplemental Court of Examiners, under specific conditions as outlined in
the course handbook. In the second year a dissertation must be submitted. The pass mark
for all assessments is 50%.

8. **Classification of Award:** The Postgraduate Diploma may be awarded at two levels (i)
Postgraduate Diploma and (ii) Postgraduate Diploma with Distinction. The M.Sc. may be
awarded a mark of Distinction which shall require the achievement of a distinction for the
dissertation, and an overall average mark for the course of at least 70%. A Distinction cannot
be awarded if a candidate has failed any module during the period of study.

9. **Re-admittance to M.Sc.:** Students who are eligible for the award of Postgraduate
Certificate may opt not to be awarded the P.Grad.Cert. and may re-enter the P.Grad.Dip. / 
M.Sc. within four years of having become eligible for the award of P.Grad.Cert. Students
who are eligible for the award of P.Grad.Dip. may opt not to be awarded the P.Grad.Dip. and
may be re-admitted to the second year of the M.Sc. course within four years of having
become eligible for the award of P.Grad.Dip. Students who were awarded the P.Grad.Cert. in
Gerontological Nursing within the previous four years may be re-admitted directly into the
P.Grad.Dip. / M.Sc., with the permission of the course committee. Such students must
undertake an additional 30 ECTS as per course regulations, for the P.Grad.Dip. and an
additional 60 ECTS (to include a Dissertation) for the M.Sc. For those students, the P.Grad.
Dip. will be awarded on the basis of up to 60 ECTS and the M.Sc. of up to 90 ECTS.
Students who were awarded the P.Grad.Cert. must rescind their P.Grad.Cert. in order to be
re-admitted to the P.Grad.Dip./M.Sc.. Students who were awarded a TCD P.Grad.Dip. in
Gerontological Nursing within the previous four years may be re-admitted directly to year two
of the course, with the permission of the course committee. Such students must undertake
additional modules of up to 30 ECTS credits, in addition to the dissertation, to accrue up to
an additional 60 ECTS credits.

Students who opt to apply to be re-admitted to the course will be required to rescind their
P.Grad.Cert or P.Grad.Dip. in order to be re-admitted onto the M.Sc. course.
Students who previously exited with the Postgraduate Diploma as a consequence of passing by compensation will not be permitted re-admittance to the Masters.

Students who previously exited with the Postgraduate Diploma as a consequence of failing the dissertation will not be permitted re-admittance to the Masters.

10. Course Co-ordinator: Ast. Prof. Anna Ayton

Mental Health (M.Sc./P.Grad.Dip./P.Grad.Cert)

1. Introduction: The aim of this inter-disciplinary course is to provide an opportunity for students to develop a sound academic base to their practice and to critically explore and critique mental health services. The course further aims to strengthen and develop the knowledge, skills and attitudes of the participants, thus enabling them to fulfil their highest potential in both their personal and professional lives. The design of the course is such that it enhances the collaboration between disciplines working with individuals with mental health problems. The course is firmly grounded in a body of knowledge that aims to promote excellence in the participants' area of practice.

Students on this course will come from a variety of backgrounds including nursing, medicine, occupational therapy, social work, Garda Siochana, legal, psychology, probation and prison services.

The course also includes a Child, Adolescent and Family Mental Health Strand and a Psychosocial Interventions Strand.

2. Admission Requirements: The candidate must:

1. For the duration of the course all applicants are required to be engaged in an area relevant to mental health care.

2. normally hold an honors degree in a relevant discipline; or
3. otherwise satisfy the selection panel that they have the ability to complete and benefit from the course, subject to the discretion/permission of the Dean of Graduate Studies.

3. **Duration:** The course is offered on a part-time basis over two years, or full-time over one year.

4. **Course structure:** The course will commence with one full study week followed by one to two study days per week throughout the academic year. Full-time students have additional study days.

   Approximately 10 days attendance is required in the second year. Students re-admitted to year two are encouraged to attend some extra study days. All students are required to successfully complete all modules specific to their course.

5. **Modules and European Credit Transfer System (ECTS):**

   **Module**

   **Students take 3 modules for a P.Grad.Cert. as follows:**

   Deconstructing Theoretical Perspectives on Human Distress (10 credits)

   and choice of two from:

   - Interface between Mental Health and Criminal Justice (10 credits)
   - Suicide, Suicidal Behaviour and Self-harm (10 credits)
   - Promoting Equality, Citizenship and Social Inclusion for Users of the Mental Health Services (10 credits)

   **Students take 6 modules for a P.Grad.Dip. as follows:**

   Deconstructing Theoretical Perspectives on Human Distress (10 credits)
Advancing Therapeutic Engagement Skills (10 credits)

Theory and Practice of Enquiry Methods for Health Care (10 credits)

Ethics and Law in Health and Social care (10 credits)

a choice of two from:

Interface between Mental Health and CriminalJustice (10 credits)

Suicide, Suicidal Behaviour and Self-harm (10 credits)

Promoting Equality, Citizenship and Social Inclusion for Users of the Mental Health Services (10 credits)

Note, availability of elective choices is subject to minimum numbers.

In year two (part-time) and year one (full-time), students progressing to a M.Sc. also undertake a dissertation module:

Dissertation (30 credits)

The M.Sc. carries 90 ECTS, the P.Grad.Dip. carries 60 ECTS and the P.Grad.Cert carries 30 ECTS.

6. Progression: Students who wish to register for a P.Grad.Dip. or M.Sc. should register on the M.Sc. course. Students who wish to register for a P.Grad.Cert should register on the P.Grad.Cert. in Specialist Practice.

To progress to the dissertation year, part-time masters students must successfully complete all the requirements of the P.Grad.Dip. as detailed in the course handbook. Students may, following consultation with the course Co-ordinator, opt not to progress to the dissertation
year. Full-time masters students may choose not to progress to the dissertation during year one. If a student chooses either option, the student will be eligible for consideration for the award of a Postgraduate Diploma in Mental Health provided that six modules of the course have been successfully completed and 60 ECTS have been accumulated. Alternatively, the student may be eligible for consideration to exit with an award of a Postgraduate Certificate in Mental Health; provided that three specialist modules have been successfully completed and 30 ECTS have been accumulated.

7. **Assessment and examinations:** A combination of assessment strategies is used to assess the learning outcomes for the course. In the second year a dissertation must be submitted. The pass mark for all assessments is 50%. Each module must be passed independently. In cases where students fail to achieve a pass grade in a written assignment, a re-submission will be permitted with a deadline for re-submission as outlined in the course handbook. Only one re-submission will be allowed, and the maximum mark awarded for the resubmitted assignment is 50%. If a student fails a module on the second attempt, this indicates failure of the whole course. Compensation may be permitted at the discretion of the supplemental Court of Examiners, under specific conditions as outlined in the course handbook.

8. **Classification of Award:** The Postgraduate Certificate may be awarded at two levels (i) Postgraduate Certificate and (ii) Postgraduate Certificate with Distinction, which shall require an overall average mark of at least 70% across all taught modules. The Postgraduate Diploma may be awarded at two levels (i) Postgraduate Diploma and (ii) Postgraduate Diploma with Distinction. The award of a taught Masters with Distinction shall require the achievement of a distinction for the dissertation, and an overall average mark for modules of the course, other than dissertation, of at least 70%. A distinction cannot be awarded if a candidate has failed any module during the period of study.

9. **Re-admittance to M.Sc.:** Students who are eligible for the award of Postgraduate Certificate may opt not to be awarded the P.Grad.Dip. and may re-enter the P.Grad.Dip. /
M.Sc. within four years of having become eligible for the award of P.Grad.Cert. Students who are eligible for the award of Postgraduate Diploma may opt not to be awarded the P.Grad.Dip and may enter second year of the masters course within four years of having become eligible for the award of P.Grad.Dip. Students who were awarded a TCD P.Grad.Cert. in Mental Health within the previous four years may re-enter directly into the P.Grad.Dip. / M.Sc., with the permission of the course committee. Such students must undertake an additional 30 ECTS as per course regulations, for the P.Grad.Dip. and an additional 60 ECTS (to include a Dissertation) for the M.Sc. For those students, the Postgraduate Diploma will be awarded on the basis of up to 60 ECTS and the Masters of up to 90 ECTS. Students who were awarded the P.Grad.Cert. must rescind their P.Grad.Cert. in order to re-enter onto the P.Grad.Dip./M.Sc..

Students who were awarded a TCD P.Grad.Dip. in Mental Health within the previous four years may enter directly into year two of the course, with the permission of the course committee. Such students must undertake additional modules of up to 30 ECTS credits to accrue up to a total of 90 ECTS credits. Students who previously exited with the Postgraduate Diploma as a consequence of failing the dissertation will not be permitted to re-enter to pursue the Masters.

Students who opt to apply to be re-admitted to the course will be required to rescind their P.Grad.Cert or P.Grad.Dip. in order to be re-admitted onto the M.Sc. course.

Students who previously exited with the Postgraduate Diploma as a consequence of passing by compensation will not be permitted re-admittance to the Masters.

10. Course Co-ordinators: Prof. Michael Brennan

Mental Health (Child, Adolescent and Family)  
(M.Sc./P.Grad.Dip./P.Grad.Cert)
1. **Introduction:** The aim of this inter-disciplinary course is to provide an opportunity for students to develop a sound academic base to their practice and to critically explore and critique mental health services.

2. **Admission Requirements:** The candidate must:

   1. be currently working in child, adolescent and family mental health services; and
   2. be currently employed in the area of mental health/mental illness/child, adolescent and family services; and
   3. have Garda clearance for working with children and adolescents; and
   4. normally hold an honors degree in a relevant discipline; or
   5. otherwise satisfy the selection panel that they have the ability to complete and benefit from the programme, subject to the discretion/permission of the Dean of Graduate Studies.

3. **Duration:** The course is offered on a part-time basis over two years.

4. **Course structure:** The course will commence with one full study week followed by one to two study days per week throughout the academic year. All students are required to successfully complete all theoretical and professional practice modules specific to their course.

   Students on taught postgraduate courses which include clinical-based learning and specialist content will be required to attend additional teaching sessions at associated service provider sites.

5. **Modules and European Credit Transfer System (ECTS):**

   Module
Students take 3 modules for a P.Grad.Cert. as follows:

- Working with people affected by eating disorders (10 credits)
- Theoretical Perspectives in Child, Adolescent and Family Mental Health (10 credits)
- Enhancing Practice in Child, Adolescent and Family Mental Health (10 credits)

Students take 6 modules for a P.Grad.Dip. as follows:

- Deconstructing Theoretical Perspectives on Human Distress (10 credits)
- Theoretical Perspectives in Child, Adolescent and Family Mental Health (10 credits)
- Enhancing Practice in Child, Adolescent and Family Mental Health (10 credits)
- Theory and Practice of Enquiry Methods for Health Care (10 credits)
- Working with people affected by eating disorders (10 credits)
- Practice Placement 1 (5 credits) and Practice Placement 2 (5 credits) (5+5 credits)

Year Two (for M.Sc.)

Dissertation (30 credits)

The M.Sc. carries 90 ECTS, the P.Grad.Dip. carries 60 ECTS and the P.Grad.Cert carries 30 ECTS.

6. **Progression:** Students who wish to register for a P.Grad.Dip. in Mental Health – Child, Adolescent and Family or M.Sc. in Mental Health – Child, Adolescent and Family should register on the M.Sc. course. Students who wish to register for a P.Grad.Cert. in Specialist Practice (Child, Adolescent and Family) should register on the P.Grad.Cert. in Specialist Practice.

To progress to the dissertation year, part-time masters students must successfully complete all the requirements of the P.Grad.Dip. as detailed in the course handbook. Students may, following consultation with the course Co-ordinator, opt not to progress to the dissertation year. Full-time masters students may choose not to progress to the dissertation during year
one. If a student chooses either option, the student will be eligible for consideration for the award of a Postgraduate Diploma in Mental Health provided that six modules of the course have been successfully passed and 60 ECTS have been accumulated. Alternatively, the student may be eligible for consideration to exit with an award of a Postgraduate Certificate in Mental Health; provided that three specialist modules have been successfully completed and 30 ECTS have been accumulated.

7. **Assessment and examinations:** A combination of assessment strategies is used to assess the learning outcomes for the course. In the second year a dissertation must be submitted. The pass mark for all assessments is 50%. Each module must be passed independently and all practice assessments must be passed without compensation. In cases where students fail to achieve a pass grade in a written assignment, a re-submission will be permitted with a deadline for re-submission as outlined in the course handbook. Only one re-submission will be allowed, and the maximum mark awarded for the resubmitted assignment is 50%. If a student fails a module on the second attempt, this indicates failure of the whole course. Compensation may be permitted at the discretion of the supplemental Court of Examiners, under specific conditions as outlined in the course handbook.

8. **Classification of Award:** The Postgraduate Certificate may be awarded at two levels (i) Postgraduate Certificate and (ii) Postgraduate Certificate with Distinction, which shall require an overall average mark of at least 70% across all taught modules. The Postgraduate Diploma may be awarded at two levels (i) Postgraduate Diploma and (ii) Postgraduate Diploma with Distinction. The award of a taught Masters with Distinction will require the achievement of a distinction for the dissertation, and an overall average mark for modules of the course, other than dissertation, of at least 70%. A distinction cannot be awarded if a candidate has failed any module during the period of study.

9. **Re-admittance to M.Sc.:** Students who are eligible for the award of Postgraduate Certificate may opt not to be awarded the P.Grad.Dip. and may re-enter the P.Grad.Dip. / M.Sc. within four years of having become eligible for the award of P.Grad.Cert. Students
who are eligible for the award of Postgraduate Diploma may opt not to be awarded the P.Grad.Dip and may enter second year of the masters course within four years of having become eligible for the award of P.Grad.Dip. Students who were awarded a TCD P.Grad.Cert. in Mental Health within the previous four years may re-enter directly into the P.Grad.Dip. / M.Sc., with the permission of the course committee. Such students must undertake an additional 30 ECTS as per course regulations, for the P.Grad.Dip. and an additional 60 ECTS (to include a Dissertation) for the M.Sc. For those students, the Postgraduate Diploma will be awarded on the basis of up to 60 ECTS and the Masters of up to 90 ECTS. Students who were awarded the P.Grad.Cert. must rescind their P.Grad.Cert. in order to re-enter onto the P.Grad.Dip./M.Sc.. Students who were awarded a TCD P.Grad.Dip. in Mental Health (Child, Adolescent and Family strand) within the previous four years may enter directly into year two of the course, with the permission of the course committee. Such students must undertake additional modules of up to 30 ECTS credits to accrue up to a total of 90 ECTS credits. Students who previously exited with the Postgraduate Diploma as a consequence of failing the dissertation will not be permitted to re-enter to pursue the Masters.

Students who opt to apply to be re-admitted to the course will be required to rescind their P.Grad.Cert or P.Grad.Dip. in order to be re-admitted onto the M.Sc. course.

Students who previously exited with the Postgraduate Diploma as a consequence of passing by compensation will not be permitted re-admittance to the Masters.

9. **Course Co-ordinator:** Prof. Michael Brennan

**Mental Health (Psychosocial Interventions) (M.Sc./P.Grad.Dip./P.Grad.Cert)**

1. **Introduction:** The aim of the Psychosocial Interventions strand of this programme is to strengthen and develop participants’ knowledge and skills by providing them with in-depth and advanced knowledge, psychological and social skills and interventions for people who
experience psychosis or related experiences. The design of the strand is such that it enhances the collaboration between disciplines. Each element of the strand provides the student with an option of including a clinical dimension for advanced practice requirements.

2. Admission Requirements: The candidate must:
1. be currently working in mental health/mental illness field; and
2. normally hold an honors degree in a relevant discipline; or
3. otherwise satisfy the selection panel that they have the ability to complete and benefit from the programme, subject to the discretion/permission of the Dean of Graduate Studies.

Note, this course is open to a wide range of professionals. Nurses undertaking this course must have current registration on the appropriate division of the Nursing and Midwifery Board of Ireland live register.

3. Duration: The course is offered on a part-time basis over two years.

4. Course structure: The course will commence with one full study week followed by one to two study days per week throughout the academic year. All students are required to successfully complete all theoretical and professional practice modules specific to their course.

Students on taught postgraduate courses which include service-based learning and specialist content will be required to attend additional teaching sessions at associated service provider sites.

5. Modules and European Credit Transfer System (ECTS):
Module
Students take 3 modules for a P.Grad.Cert. as follows:
• Deconstructing Theoretical Perspectives on Human Distress (10 credits)
• Working with People Who Experience Psychosis or Related Experiences (10 credits)
• Inter-Professional Family Work (10 credits)

Students take 6 modules a P.Grad.Dip. as follows:
• Deconstructing Theoretical Perspectives on Human Distress (10 credits)
• Advancing Therapeutic Engagement Skills (10 credits)
• Working with People Who Experience Psychosis or Related Experiences (10 credits)
• Inter-Professional Family Work (10 credits)
• Theory and Practice of Enquiry Methods for Health Care (10 credits)
• Practice Module in Psychosocial Interventions (10 credits)

Year Two (for M.Sc.)
Dissertation (30 credits)

The M.Sc. carries 90 ECTS, the P.Grad.Dip. carries 60 ECTS and the P.Grad.Cert carries 30 ECTS.

6. Progression: Students who wish to register for a P.Grad.Dip. in Mental Health – Psychosocial Interventions or M.Sc. in Mental Health – Psychosocial Interventions should register on the M.Sc. course. Students who wish to register for a P.Grad.Cert. in Specialist Practice (Psychosocial Interventions) should register on the P.Grad.Cert. in Specialist Practice.

To progress to the dissertation year, part-time masters students must successfully complete all the requirements of the P.Grad.Dip. as detailed in the course handbook. Students may, following consultation with the course Co-ordinator, opt not to progress to the dissertation year. Full-time masters students may choose not to progress to the dissertation during year one. If a student chooses either option, the student will be eligible for consideration for the award of a Postgraduate Diploma in Mental Health provided that six modules of the course have been successfully passed and 60 ECTS have been accumulated. Alternatively, the student may be eligible for consideration to exit with an award of a Postgraduate Certificate in Mental Health; provided that three specialist modules have been successfully completed and 30 ECTS have been accumulated.
7. Assessment and examinations: A combination of assessment strategies is used to assess the learning outcomes for the course. In the second year a dissertation must be submitted. The pass mark for all assessments is 50%. Each module must be passed independently and all practice assessments must be passed without compensation. In cases where students fail to achieve a pass grade in a written assignment, a re-submission will be permitted with a deadline for re-submission as outlined in the course handbook. Only one re-submission will be allowed, and the maximum mark awarded for the resubmitted assignment is 50%. If a student fails a module on the second attempt, this indicates failure of the whole course. Compensation may be permitted at the discretion of the supplemental Court of Examiners, under specific conditions as outlined in the course handbook.

8. Classification of Award: The Postgraduate Certificate may be awarded at two levels (i) Postgraduate Certificate and (ii) Postgraduate Certificate with Distinction, which shall require an overall average mark of at least 70% across all taught modules. The Postgraduate Diploma may be awarded at two levels (i) Postgraduate Diploma and (ii) Postgraduate Diploma with Distinction. The award of a taught Masters with Distinction will require the achievement of a distinction for the dissertation, and an overall average mark for modules of the course, other than dissertation, of at least 70%. A distinction cannot be awarded if a candidate has failed any module during the period of study.

9. Re-admittance to M.Sc.: Students who are eligible for the award of Postgraduate Certificate may opt not to be awarded the P.Grad.Dip. and may re-enter the P.Grad.Dip. / M.Sc. within four years of having become eligible for the award of P.Grad.Cert. Students who are eligible for the award of Postgraduate Diploma may opt not to be awarded the P.Grad.Dip and may enter second year of the masters course within four years of having become eligible for the award of P.Grad.Dip. Students who were awarded a TCD P.Grad.Cert. in Mental Health within the previous four years may re-enter directly into the P.Grad.Dip. / M.Sc., with the permission of the course committee. Such students must undertake an additional 30 ECTS as per course regulations, for the P.Grad.Dip. and an additional 60 ECTS (to include a Dissertation) for the M.Sc. For those students, the Postgraduate Diploma will be awarded on the basis of up to 60 ECTS and the Masters of up
to 90 ECTS. Students who were awarded the P.Grad.Cert. must rescind their P.Grad.Cert. in order to re-enter onto the P.Grad.Dip./M.Sc..

Students who were awarded a TCD P.Grad.Dip. in Mental Health (Psychosocial Interventions strand) within the previous four years may enter directly into year two of the course, with the permission of the course committee. Such students must undertake additional modules of up to 30 ECTS credits to accrue up to a total of 90 ECTS credits. Students who previously exited with the Postgraduate Diploma as a consequence of failing the dissertation will not be permitted to re-enter to pursue the Masters.

Students who opt to apply to be re-admitted to the course will be required to rescind their P.Grad.Cert or P.Grad.Dip. in order to be re-admitted onto the M.Sc. course.

Students who previously exited with the Postgraduate Diploma as a consequence of passing by compensation will not be permitted re-admittance to the Masters.

10. Course Co-ordinator: Prof. Michael Brennan

Midwifery (H.Dip.)

1. Introduction: This course is taught by the School of Nursing and Midwifery, in partnership with The Rotunda Hospital, Dublin and The Coombe Women and Infant’s University Hospital, Dublin. The course is designed to develop midwives with the knowledge, skills and attitudes necessary to become competent, analytical and reflective practitioners thus enabling them to provide care in a manner that benefits women and their families.

2. Admission Requirements: Applicants must satisfy the following minimum entry criteria:

a. Must be a registered general nurse on the General Nurse Division of the register maintained by the Nursing and Midwifery Board of Ireland; and
b. Be currently on the live register maintained by the Nursing and Midwifery Board of Ireland; and

c. normally hold a relevant honours degree; and

d. Satisfy the selection committee that they have the ability to complete and benefit from the course, subject to the discretion/permission of the Dean of Graduate Studies.

3. **Duration:** 18 months full-time, during which time students are employed either by The Rotunda Hospital, Dublin, or The Coombe Women and Infants’ University Hospital.

4. **Course Content:** The course comprises both classroom and practice components and incorporates midwifery theory and practice, management, legal and ethical aspects of midwifery practice, and research for midwifery practice. This course carries 90 ECTS credits.

**Modules**

1. Foundation Skills for Midwifery Practice (0 credits)
2. Sharing the Woman’s Experience – Social Theory and Birth (5 credits)
3. Core Midwifery Practice and Adaptation in Pregnancy (15 credits)
4. Midwifery Practice: Pathophysiology and Unexpected Outcomes of Pregnancy and Childbirth (15 credits)
5. Midwifery Research – Evidence for Midwifery Practice (5 credits)
6. Lactation and Infant Feeding (5 credits)
7. Health Promotion (5 credits)
8. Being a Midwife – Personal and Professional Development (10 credits)
9. Midwifery Practice 1 – Orientation (0 credits)
10. Midwifery Practice 2 (5 credits)
11. Midwifery Practice 3 (5 credits)
12. Midwifery Practice 4 (5 credits)
13. Midwifery Practice 5 (5 credits)
14. Midwifery Practice 6 (5 credits)
15. Midwifery Practice 7 (5 credits)

5. **Assessments and examinations:** Continuous assessment of both the practice and theoretical components of the course will be used and written examinations are undertaken each year. The pass mark is 50%. Students must pass independently both written and practice assessments. All practice assessments must be passed without compensation, and compensation is not permitted between written and practice assessments or between modules. Where a midwifery student does not achieve the required standard in a module (theory or practice), the student has the right to be assessed on ONE further occasion in that assessment, failure to achieve a pass of written and/or practice reassessment means failure of the course. Successful candidates will be eligible to apply to the Nursing and Midwifery Board of Ireland to have their names entered in the Midwives’ Division of the Register.

6. **Course Co-ordinator:** Prof. Kathryn Muldoon  
   **Course Director:** Prof. Denise Lawler

**Midwifery (M.Sc./P.Grad.Dip.)**

1. **Introduction:** This course is designed to provide a solid academic base to the understanding and development of midwifery care. Graduates of this course will be expected to provide quality midwifery care and promote and develop excellence in their practice setting. The course provides advanced study in research methods, in addition to advancing the theoretical and practical aspects of management, clinical practice and education in midwifery.

2. **Admission Requirements:**
   1. Registration as a midwife with the Nursing and Midwifery Board of Ireland, or, in the case of international applicants, registration as a professional midwife who is entitled to practice as a qualified or registered midwife in their own country.
   2. A minimum of one-year full-time recent clinical midwifery practice since registration as a midwife; and
   3. An Honors Bachelor degree in midwifery or a related discipline or equivalent professional and academic qualification; or
4. Otherwise satisfy the course committee that they have the ability to complete and benefit from the course, subject to the discretion/permission of the Dean of Graduate Studies.

3. **Duration:** Two-years, part-time or one-year, full-time.

4. **Course structure:** The course will commence with one full study week followed by one to two study days per week. Modules specific to particular strands on the course must be completed.

5. **Modules and European Credit Transfer System (ECTS):**

   Theory and Practice of Enquiry Methods for Health Care (10 credits)
   Ethics and Law in Health Care (10 credits)
   Advancing the Theoretical Foundations of Nursing/Midwifery (10 credits)
   Leadership and Quality improvement in Healthcare (10 credits)
   Women-Centred Maternity Care in Ireland (10 credits)
   Advancing Midwifery Practice (10 credits)
   Dissertation (30 credits)

   The M.Sc. carries 90 ECTS credits, and the P.Grad.Dip. carries 60 ECTS credits.

6. **Progression:** Students may register on the P.Grad.Cert, P.Grad.Dip or M.Sc. course. To progress to the dissertation year, part-time masters students must successfully complete all the requirements of the P.Grad.Dip. as detailed in the course handbook. Students may, following consultation with the course Co-ordinator, opt not to progress to the dissertation year. Full-time masters students may choose not to progress to the dissertation during year one. If a student chooses either option, the student will be eligible for consideration for the award of a Postgraduate Diploma in Professional Midwifery Studies provided that six modules of the course have been successfully passed and 60 ECTS have been accumulated. Alternatively, the student may be eligible for consideration to exit with an award of a Postgraduate Certificate in Professional Midwifery Studies; provided that three specialist modules have been successfully completed and 30 ECTS have been accumulated.
7. **Assessments and examinations:** A combination of assessment strategies is used to assess the learning outcomes for the course. In the second year a dissertation must be submitted. The pass mark for all assessments is 50%. Each module must be passed independently and all practice assessments must be passed. In cases where students fail to achieve a pass grade in a written assignment, a re-submission will be permitted with a deadline for re-submission as outlined in the course handbook. The maximum mark awarded for the re-submitted assignment is 50%. If a student fails a module on the second attempt, this indicates failure of the whole course. One episode of compensation is permitted, where applicable. Compensation may be permitted at the discretion of the supplemental Court of Examiners, under specific conditions as outlined in the course handbook.

8. **Classification of Award:** The Postgraduate Diploma may be awarded at two levels (i) Postgraduate Diploma and (ii) Postgraduate Diploma with Distinction which shall require an overall average mark of at least 70% across all taught modules. The award of a taught Masters with Distinction shall require the achievement of a distinction for the dissertation, and an overall average mark for modules of the course of at least 70%. A distinction cannot be awarded if a candidate has failed any module during the period of study.

9. **Re-admittance to M.Sc.:** Students who are eligible for the award of Postgraduate Diploma may opt not to be awarded the P.Grad.Dip and may be re-admitted to second year of the Masters course within four years of having become eligible for the award of P.Grad.Dip. Students who were awarded a TCD P.Grad.Dip. in Professional Midwifery Studies within the previous four years may be admitted directly into year two of the course, with the permission of the course committee. Such students must undertake additional modules of up to 30 ECTS credits, in addition to the dissertation, to accrue up to an additional 60 ECTS credits.

Students who opt to apply to be re-admitted to the course will be required to rescind their P.Grad.Dip. in order to be re-admitted onto the M.Sc. course.

Students who previously exited with the Postgraduate Diploma as a consequence of passing by compensation will not be permitted re-admittance to the Masters.

10. **Course Co-ordinators:** Prof. Elizabeth Fahey McCarthy

**Nursing (M.Sc./P.Grad.Dip.)**
1. **Introduction:** The aim of the course is to provide a solid academic base to the understanding and development of nursing practice. Graduates of this course, in applying their learning, can be expected to provide quality nursing care and promote and develop excellence in their practice setting. The course provides advanced study in research methods, the theoretical and practical aspects of management, clinical practice and leadership.

2. **Admission Requirements:**

   1. Registration as a nurse with the Nursing and Midwifery Board of Ireland or in the case of international applicants, be registered as a professional nurse who is entitled to practice as a qualified or registered nurse in their own country.
   2. An honors degree in nursing or a related discipline
   3. Or otherwise satisfy the course committee that they have the ability to complete and benefit from the course, subject to the discretion/permission of the Dean of Graduate Studies.

3. **Duration:**

   The course takes place over two years on a part-time basis or one year on a full-time basis. Full-time students are required to attend scheduled lectures over two days per week.

   Approximately 10 days attendance is required in the second year. Full-time students have some additional study days. Students re-admitted to year two are encouraged to attend some extra study days. All students are required to successfully complete all modules specific to their course.

4. **Course structure:** A blended learning approach is utilised in the delivery of theoretical content, including lectures, group discussion, Blackboard and self-directed learning. The assessment process used is a combination of written and practical assignments.
The course will commence with one full study week followed by one to two study days per week throughout the academic year. Full-time students have additional study days.

Approximately 10 days attendance is required in the second year. Students re-admitted to year two are encouraged to attend some extra study days. All students are required to successfully complete all modules specific to their course

5. **Modules and European Credit Transfer System (ECTS)**

Modules:

Theory and Practice of Enquiry Methods for Health Care (10 credits)

Ethics and Law in Health and Social Care (10 credits)

Advancing the Theoretical Foundations of Nursing (10 credits)

Leadership and Quality Improvement in Healthcare (10 credits)

Students take 2 out of 3 electives:

Advancing the Professional Role (10 credits) (Elective)

Facilitating Learning in the Practice Environment (10 credits) (Elective)

Healthcare Management (10 credits) (Elective)

Dissertation (M.Sc. only) (30 credits)

The M.Sc. carries 90 ECTS credits, the P.Grad.Dip. carries 60 ECTS credits.
6. **Progression:** All students register on the M.Sc. Nursing course in the first instance. To progress to the second year of the course students must successfully complete, without compensation between modules, all first year modules and accumulate 60 ECTS points.

Students may exit the course with a P.Grad.Dip. in Professional Nursing Studies, provided they have successfully completed six modules. Students who wish to exit the course at this point and who want to complete an M.Sc. Nursing at a later stage, may choose to do so but must return within four years of completing year one.

7. **Assessment and examination:** A combination of assessment methods is used to assess the learning outcomes for the course. In the second year a dissertation must be submitted. The pass mark for all assessments is 50%. Each module must be passed independently; if a student fails a module on the second attempt, this indicates failure of the whole course. Compensation between modules may be permitted at the discretion of the supplemental Court of Examiners, under specific conditions as outlined in the course handbook.

8. **Classification of Awards:** The Postgraduate Diploma may be awarded at two levels (i) Postgraduate Diploma and (ii) Postgraduate Diploma with Distinction, which shall require an overall average mark of at least 70% across all taught modules. The M.Sc. may be awarded a mark of Distinction. The award of a taught Masters with Distinction shall require the achievement of a distinction for the dissertation, and an overall average mark for all other modules of at least 70%. A distinction cannot be awarded if a candidate has failed any module during the period of study.

9. **Re-admittance to M.Sc.:** Students who are eligible for the award of Postgraduate Diploma, without compensation between modules, may opt not to be awarded the P.Grad.Dip and may enter second year of the masters course within four years of having become eligible for the award of P.Grad.Dip.
Students who were awarded a TCD P.Grad.Dip. within the previous four years, without compensation, may re-enter directly into the same subject M.Sc., with the permission of the course committee.

Students who opt to apply to be re-admitted to the course will be required to rescind their P.Grad.Dip. in order to be re-admitted onto the M.Sc. course.

Students who previously exited with the Postgraduate Diploma as a consequence of compensating between modules will not be permitted to re-enter to pursue the Masters in Science.

10. **Course Co-ordinator:** Prof. Caitriona NicPhilipin

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**Advanced Nursing Practice (M.Sc./P.Grad.Dip.)**

1. **Introduction:** The aim of the course is to prepare suitably qualified and clinically experienced nurses as Advanced Nurse Practitioners in emergency nursing. The graduate will be eligible to apply to the Nursing & Midwifery Board of Ireland (NMBI) for registration as a Registered Advanced Nurse Practitioner (RANP) in emergency nursing. The course is designed to prepare Advanced Nurse Practitioner candidates support their development as autonomous practitioners, who are clinically competent and skilled in the delivery of high quality direct care to a specific patient/client group. Students coming on the course are expected to achieve a minimum of two weeks experience within a specialist ANP service. In providing a solid academic base to the understanding and development of advanced nursing practice, the course will enable the advanced nurse practitioner candidate to develop her/his role as an autonomous member of the multidisciplinary health care team within the healthcare organisation. In providing advanced study in research methods, the theoretical and practical aspects of management, clinical practice and the delivery of advanced nursing care, the course endeavours to foster in advanced nurse practitioner candidates the ability to become professional leaders in their specialist area of practice. The graduate, equipped with
such knowledge and advanced skills will be eligible to apply to the Nursing & Midwifery Board of Ireland for registration as a Registered Advanced Nurse Practitioner (RANP).

This course also meets the NMBI requirements for Nurse Prescribing which is detailed on the students’ transcripts. To be awarded the Certificate in Nurse Prescribing the student must register on the Certificate in Nurse Prescribing course.

2. Admission Requirements:

**Academic Criteria**

1. Hold an honors degree in Nursing Studies or equivalent; and
2. Hold a post-basic qualification in relevant nursing speciality
3. Or otherwise satisfy the course committee that they have the ability to complete and benefit from the course, subject to the discretion/permission of the Dean of Graduate Studies.

**Professional Criteria**

4. Active Registration with the Nursing and Midwifery Board of Ireland: Applicants must be registered in the General Nursing Division of the active register maintained by the Nursing and Midwifery Board of Ireland; and
5. Have a minimum of five years clinical experience in relevant nursing speciality during the last 8 years and
6. Have received a written commitment from host organisation to support the student for the clinical practicum (to include prescribing of medicinal products and ionising radiation)
7. The host hospital must obtain a satisfactory clinical audit as a suitable learning environment for the relevant speciality

**Students who already hold a MSc in Nursing or MSc in Midwifery or relevant subject and who meet the professional requirements as set out above, may be eligible to complete a one year postgraduate diploma in Advanced Practice.**
3. **Duration:** The course takes place over two years on a part-time basis.

4. **Course Structure:**

The course will commence with one full study week followed by one to two study days per week throughout the academic year.

Approximately 26 days attendance is required in the second year. All students are required to successfully complete all modules specific to their course.

5. **Modules and European Credit Transfer System (ECTS):**

**Year One**

- Advancing the Professional Role (10 ECTS)
- Prescribing Medicinal Products and Ionising Radiation (10 ECTS)
- Anatomy and Pathophysiology for Advanced Practice (10 ECTS)
- Advancing Physical Assessment (10 ECTS)
- Advanced Practice in a specialist field of practice (20 ECTS)

**Year Two**

- Theory and Practice of Enquiry Methods for Healthcare (10 ECTS)
- Leadership and Quality Improvement in Healthcare (10 ECTS)
- Dissertation (30 ECTS)

The M.Sc. carries 110 ECTS credits, the P.Grad.Dip. carries 60 ECTS credits.

6. **Progression:** All students register on the M.Sc. in Advanced Nursing Practice strand in the first instance. To progress to the second year of the course students must successfully complete, without compensation between modules, all first year modules and accumulate 60 ECTS.
Students who already hold an M.Sc. in Nursing or an M.Sc. in Midwifery or an allied health sciences subject may be eligible to exit at the end of year 1 with a P.Grad.Dip. in Advanced Practice, provided they have successfully completed six modules. Students who wish to exit the course at this point and who want to complete an M.Sc. in Advanced Practice in the same subject strand at a later stage, may choose to do so but must return within four years of completing year one.

7. Assessment and examination: A combination of assessment methods is used to assess the learning outcomes for the course. In the second year a dissertation must be submitted. The pass mark for all assessments is 50%. Each module must be passed independently; if a student fails a module on the second attempt, this indicates failure of the whole course. Compensation between modules may be permitted at the discretion of the supplemental Court of Examiners, under specific conditions as outlined in the course handbook.

8. Classification of Awards: The Postgraduate Diploma in Advanced Practice may be awarded at two levels (i) Postgraduate Diploma and (ii) Postgraduate Diploma with Distinction, which shall require an overall average mark of at least 70% across all taught modules. The M.Sc. in Advanced Practice may be awarded a mark of Distinction. The award of a taught Masters with Distinction shall require the achievement of a distinction for the dissertation, and an overall average mark for all other modules of at least 70%. A distinction cannot be awarded if a candidate has failed any module during the period of study.

9. Re-admittance to the M.Sc: Students who are eligible for the award of Postgraduate Diploma in Advanced Practice, without compensation between modules, may opt not to be awarded the P.Grad.Dip and may enter second year of the masters course within four years of having become eligible for the award of P.Grad.Dip.
Students who were awarded a P.Grad.Dip. within the previous four years, without compensation, may re-enter directly into the same subject M.Sc., with the permission of the course committee.

Students who opt to apply to be re-admitted to the course will be required to rescind their P.Grad.Dip. in order to be re-admitted onto the M.Sc. course.

Students who previously exited with the Postgraduate Diploma as a consequence of failing the dissertation or as a consequence of compensating between modules will not be permitted to re-enter to pursue the Masters.

10. Course Co-ordinator: Prof. Caitriona NicPhilibin

Nursing – Child Health and Wellbeing (M.Sc./P.Grad.Dip)

1. Introduction: The aim of the M.Sc. in Nursing – Child Health and Wellbeing is to provide a solid academic base to the understanding and development of nursing practice in the area of child health and illness. The strand will strengthen and develop the knowledge, skills, competencies and attitudes of the participants, thus enabling them to fulfil their highest potential in the personal, professional and practice arena of children’s health. The strand will provide advanced study in research methods, the theoretical and practical aspects of management, clinical practice and leadership and child health perspectives as well as contemporary issues in child health and wellbeing. It is anticipated that graduates of this strand, in applying their learning, will be enabled to promote and develop excellence in children’s illness, child health and wellbeing in primary, secondary and tertiary health care services.

2. Admission Requirements:
1. Registration as a nurse with the Nursing and Midwifery Board of Ireland or in the case of international applicants, be registered as a professional nurse who is entitled to practice as a qualified or registered nurse in their own country.

2. An honors degree in nursing or a related discipline

3. Or otherwise satisfy the course committee that they have the ability to complete and benefit from the course, subject to the discretion/permission of the Dean of Graduate Studies.

3. **Duration:** The course takes place over two years on a part-time basis or one year on a full-time basis.

4. **Course Structure:** A blended learning approach is utilised in the delivery of theoretical content, including lectures, group discussion, Blackboard and self-directed learning. The assessment process used is a combination of written and practical assignments.

Year 1 of the part-time taught masters course usually starts with a full week in September and will continue with classes on Thursdays until December. The course recommences in January 2014 continues on Thursdays until the end of March or early April. There is some web-based learning involved.

Attendance in Year 2 of M.Sc. courses involves attending a selection of workshops run from September to March. These workshops are designed to support students as they progress through the various stages of their final year dissertation. Students will be free to attend any of the workshops on offer. At the end of Year 2, M.Sc. students will write a dissertation on a chosen subject related to their field of study.

Full-time students attend on scheduled Wednesdays and Thursdays.

5. **Modules and European Credit Transfer System (ECTS)**

**Modules**

Theory and Practice of Enquiry Methods for Health Care (10 credits)
Ethics and Law in Health and Social Care (10 credits)

Advancing the Theoretical Foundations of Nursing (10 credits)

Leadership and Quality Improvement in Healthcare (10 credits)

Contemporary Issues in Child Health and Wellbeing (10 credits)

Child Health Provision in the Community (10 credits)

Dissertation (M.Sc.only) (30 credits)

The M.Sc. carries 90 ECTS credits, the P.Grad.Dip. carries 60 ECTS credits.

6. Progression: All students register on the M.Sc. Nursing – Child Health and Wellbeing strand in the first instance. To progress to the second year of the course students must successfully complete, without compensation between modules, all first year modules and accumulate 60 ECTS.

Students may exit the course with a P.Grad.Dip. in Professional Nursing Studies, provided they have successfully completed six modules. Students who wish to exit the course at this point and who want to complete an M.Sc. Nursing at a later stage, may choose to do so but must return within four years of completing year.

7. Assessment and examination: A combination of assessment methods is used to assess the learning outcomes for the course. In the second year a dissertation must be submitted. The pass mark for all assessments is 50%. Each module must be passed independently; if a student fails a module on the second attempt, this indicates failure of the whole course. Compensation between modules may be permitted at the discretion of the supplemental Court of Examiners, under specific conditions as outlined in the course handbook.
8. **Classification of Awards**: The M.Sc. may be awarded a Distinction. The award of a taught Masters with Distinction will require the achievement of a distinction (70% or above) for the dissertation, and an aggregate score of 70% or above in all other modules. A distinction cannot be awarded if a candidate has failed any module during the period of study.

The Postgraduate Diploma may be awarded at two levels (i) Postgraduate Diploma and (ii) Postgraduate Diploma with Distinction (aggregate score of 70% or above).

9. **Re-admittance to the M.Sc**: Students who are eligible for the award of Postgraduate Diploma, without compensation between modules, may opt not to be awarded the P.Grad.Dip and may enter second year of the masters course within four years of having become eligible for the award of P.Grad.Dip.

Students who were awarded a TCD P.Grad.Dip. within the previous four years, without compensation, may re-enter directly into the same subject M.Sc., with the permission of the course committee.

Students who opt to apply to be re-admitted to the course will be required to rescind their P.Grad.Dip. in order to be re-admitted onto the M.Sc. course.

Students who previously exited with the Postgraduate Diploma as a consequence of failing the dissertation or as a consequence of compensating between modules will not be permitted to re-enter to pursue the Masters in Science.

10. **Course Co-ordinator**: Prof. Caitriona NicPhilibin

**Nursing (Nurse/ Midwife Prescribing) (Cert.) NFQ Level 8**
1. **Introduction**: The aim of this Certificate in Nursing (Nurse/ Midwife Prescribing) is to equip nurses or midwives with the requisite knowledge, skills and competence to prescribe medicinal products safely and effectively. Upon successful completion of this course, the graduate will be eligible to apply to the Nursing and Midwifery Board of Ireland for registration as a Registered Nurse Prescriber. There will be two intakes per year; in January and September.

2. **Admission Requirements**: Each applicant must meet all three types of criteria namely professional, academic and clinical as follows:

   **Professional:**

   • Have an active registration with the Nursing and Midwifery Board of Ireland: applicants must be registered in the General, Psychiatric, Children’s, Intellectual Disability, Midwifery or Public Health Nurse divisions of the active register maintained by the Nursing and Midwifery Board of Ireland; and

   • Have a minimum of three years post-registration clinical experience during the last five years with at least one year full time experience in the specific area of practice.

   **Academic:**

   • Possess competencies recognised at Level 8 of the National Framework of Qualifications (for example a Higher Diploma or an Honors Bachelor degree); and,

   • Demonstrate evidence of further post-registration education (for example completion of the Nursing and Midwifery Board of Ireland category I or II courses or other postgraduate courses).

   **Clinical Practice Experience:**

   • Be employed in a clinical area that is approved by the course team and satisfies the Nursing and Midwifery Board of Ireland Requirements and Standards.
• Submit a written commitment from the host organisation supporting the applicant for the clinical practicum. A Site Declaration Form signed by the Director of Nursing/Midwifery/Public Health Nursing (or relevant nurse/midwife manager) must be submitted with the entry application.

• Submit a written confirmation from a medical practitioner who has agreed to act as a mentor for the required term of supervised practice (this mentor should also sign the Site Declaration Form).

• Be familiar with information technology in particular email and internet use and have access to computer facilities including email and internet.

3. **Duration**: The course is offered on a part-time basis over one-year.

4. **Course structure**: The course is composed of three modules, each of which will require students to carry out clinical practicum, attend Trinity-based theory lectures and follow the course material by the e-learning method. Students are required to attend the University for approximately ten days over the course of the year. In addition there is requirement for twelve days clinical exposure.

5. **Modules and European Credit Transfer System (ECTS)**: This Certificate carries 30 ECTS credits:

   Health and Physical Assessment (10 credits)

   Prescribing Medicinal Products (10 credits)

   Professional, Ethical and Legal Issues of Nurse and Midwife Prescribing (10 credits)

   Clinical Practicum
6. **Progression:** To be awarded the Certificate, a student must successfully complete all three modules to the value of 30 credits.

7. **Assessments and examinations:** A combination of assessment methods is used to assess the learning outcomes for the course. This includes a written assignment, an exam, clinical portfolio, Observed Structured Clinical Examination (OSCE) and Objective Structures Long Examination Record (OSLER). The pass mark for all assessments is 50%. Each module must be passed independently and all practice assessments must be passed without compensation. If a student fails a module on the second attempt, this indicates failure of the whole course.

8. **Classification of Award:** The Certificate may be awarded with Distinction. The award of Distinction will require the achievement of an aggregate score of 70% or above in the three modules. A Distinction cannot be awarded if a candidate has failed any module during the period of study.

9. **Course Co-ordinator:** Prof. Caítriona NicPhilibin

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**Nursing Specialist (M.Sc./P.Grad.Dip./P.Grad.Cert.)**

1. **Introduction:** This Masters course is designed to provide solid academic base to the understanding and development of nursing practice. Graduates of this course, in applying their learning, can be expected to provide quality nursing care and promote and develop excellence in their practice setting. The course provides advanced study in research methods, the theoretical and practical aspects of management, clinical practice and leadership.
2. **Admission Requirements:**

Admission to the strand will be subject to place availability. The entry criteria for this strand are:

1. Current registration on the appropriate nursing division of the Nursing and Midwifery Board of Ireland Active Register
2. Two years post-registration clinical experience since first registration
3. Twelve months experience (within the last two years) in the specialty at the time of application
4. Candidates must also fulfil one of the following criteria:
   a) An honors degree in nursing or a related discipline or equivalent professional and academic qualification or satisfy the selection committee that they have the academic ability to successfully complete the course, subject to the discretion/permission of the Dean of Graduate Studies.
   b) Each student will be engaged in specific practice settings in Ireland relevant to each individual strand for the duration of the course of study.
   c) Additional criteria may be required by individual Health Service Providers.

3. **Duration:** The course is offered on a part-time basis over two years.

4. **Course structure:** The course commences with one full study week followed by one to two study days per week. It consists of core modules (10 ECTS each), specialist modules (10 ECTS each) and a dissertation (30 ECTS). Students on the Nursing strand may take 2 out of 3 electives, as well as the other core modules. All core modules are compulsory. In addition, modules specific to particular strands on the course must be completed.

5. **Modules and European Credit Transfer System (ECTS):**

The following modules are common to all strands:
Theory and Practice of Enquiry Methods for Health Care (10 credits)

Leadership and Quality Improvement in Healthcare (10 credits)

Dissertation (MSc only) (30 credits)

In addition, students take four mandatory specialist modules per speciality:

**Renal:**

Haemodialysis and Allied Therapies (10 credits)

Nephrology Nursing (10 credits)

Transplantation and Peritoneal Dialysis (10 credits)

Supervised Practice Placement (Renal) (10 credits)

**Cardiovascular:**

Introduction to the Nursing Management of a Cardiovascular Patient (10 credits)

Advanced Nursing Management of a Patient with Electro-Physiological Dysfunction (10 credits)

Advanced Nursing Management of a Patient with Cardiovascular Dysfunction (10 credits)

Supervised Practice Placement (Cardiovascular) (10 credits)

**Intensive Care:**

Nursing Care and Management of Critically-Ill Patients with Multi-System Dysfunction (10 credits)

Principles of Intensive Care Nursing (10 credits)

Assessment of the Critically-Ill Patient (10 credits)

Supervised Practice Placement (ICU) (10 credits)
**Perioperative Care:**

Principles of Perioperative Nursing (10 credits)

Nursing Management of the Perioperative Patient (10 credits)

Perioperative Department Management (10 credits)

Supervised Practice Placement (Perioperative) (10 credits)

**Emergency Nursing:**

Nursing Management of Medical Emergencies (10 credits)

Nursing Management of Paediatric and Mental Health Emergencies (10 credits)

Management of Surgical Emergencies and Trauma Nursing (10 credits)

Supervised Practice Placement (ED) (10 credits)

**Orthopaedics:**

Applied Science and Principles of Orthopaedic Nursing (10 credits)

Principles of Elective Orthopaedic Nursing (10 credits)

Principles of Trauma Orthopaedic Nursing (10 credits)

Supervised Practice Placement (Orthopaedic) (10 credits)

**Cancer and Haematology Nursing:**

Cancer and Haematology Nursing (10 credits)

Psychosocial Issues in Haematology Oncology Nursing (10 credits)

Haematology Oncology Nursing (10 credits)

Supervised Practice Placement (CH) (10 credits)
The P.Grad.Dip. in Nursing – Specialist carries 60 ECTS carries irrespective of the strand. The M.Sc. in Nursing – Specialist carries 90 ECTS credits. The P.Grad.Cert. is the equivalent of 30 ECTS irrespective of the strand.

6. **Progression:** To progress to the dissertation year, part-time masters students must successfully complete all the requirements of the P.Grad.Dip. as detailed in the course handbook. Students may, following consultation with the course Co-ordinator, opt not to progress to the dissertation year. Full-time masters students may choose not to progress to the dissertation during year one. If a student chooses either option, the student will be eligible for consideration for the award of a Postgraduate Diploma in Specialist Nursing provided that six modules of the course have been successfully passed and 60 ECTS have been. Alternatively, the student may be eligible for consideration to exit with an award of a Postgraduate Certificate in Specialist Nursing provided that three specialist modules have been successfully completed and 30 ECTS have been accumulated. In addition, eligible students may elect to exit with a Postgraduate Certificate (Clinical) provided they have completed three specialist (30 ECTS) and one clinical module (10 ECTS). For all other strands – all students register on the M.Sc. course in the first instance. To progress to the second year of the part-time course students must successfully complete all the requirements of the first year as detailed in a particular strand handbook. Students who chose not to progress to the second year of the Masters course and who have successfully completed 60 ECTS may opt to be awarded with a Postgraduate Diploma.

7. **Re-admittance to M.Sc.:** For M.Sc. Specialist Nursing Strand – Students who are eligible for the award of Postgraduate Certificate may opt not to be awarded the P.Grad.Cert. and may be re-admitted to the P.Grad.Dip. / M.Sc. within three years of having become eligible for the award of P.Grad.Cert. Students who are eligible for the award of Postgraduate Diploma may opt not to be awarded the P.Grad.Dip and may be re-admitted to the second year of the masters course within four years of having become eligible for the award of P.Grad.Dip. Students who were awarded a P.Grad.Cert. in Specialist Nursing within the previous four years may be re-admitted directly into the P.Grad.Dip. / M.Sc., with the permission of the course committee. Such students must undertake an additional 30
ECTS as per course regulations, for the P.Grad.Dip. and an additional 60 ECTS (to include a Dissertation) for the M.Sc. For those students, the Postgraduate Diploma will be awarded on the basis of up to 60 ECTS and the Masters of up to 90 ECTS. Students who were awarded the P.Grad.Cert. must rescind their P.Grad.Cert. in order to be re-admitted to the P.Grad.Dip./M.Sc.

Students who were awarded a P.Grad.Dip. in Specialist Nursing within the previous four years may be re-admitted directly into year two of the course, with the permission of the course committee. Such students must undertake the dissertation modules of 30 ECTS credits. For those students, the Masters will therefore be awarded on the basis of up to 90 ECTS. Students who previously exited with the Postgraduate Diploma as a consequence of failing the dissertation may not be re-admitted to pursue the Masters.

Students who previously exited with the Postgraduate Diploma as a consequence of failing the dissertation will not be permitted re-admittance to pursue the Masters. Compensation may be permitted at the discretion of the Supplemental Court of Examiners, under specific conditions as outlined in the Course Handbook, however, students who are permitted compensation will not be allowed to progress to the M.Sc. year of the course.

8. Assessments and examinations: A combination of assessment methods is used to assess the learning outcomes for the course. In the second year a dissertation must be submitted. The pass mark for all assessments is 50%. Each module must be passed independently and all practice assessments must be passed. If a student fails a module on the second attempt, this indicates failure of the whole course. Compensation may be permitted at the discretion of the supplemental Court of Examiners, under specific conditions as outlined in the course handbook.

9. Classification of Award: For Specialist Nursing Strand only – The Postgraduate Certificate may be awarded at two levels (i) Postgraduate Certificate and (ii) Postgraduate Certificate with Distinction, which shall require an overall average mark of at least 70% across all taught modules. For all other strands – The Postgraduate Diploma may be awarded at two levels (i) Postgraduate Diploma and (ii) Postgraduate Diploma with
Distinction, which shall require an overall average mark of at least 70% across all taught modules. The M.Sc. may be awarded a mark of Distinction. The award of a taught Masters with Distinction will require the achievement of a distinction for the dissertation, and an overall average mark for modules of the course of at least 70%. A distinction cannot be awarded if a candidate has failed any module during the period of study.

10. **Course Co-ordinator:** Prof. Fintan Sheerin

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**Palliative Care (Including Palliative Care International)**  
*(M.Sc./P.Grad.Dip./P.Grad.Cert.)*

1. **Introduction:** The aim of this inter-disciplinary course is to provide an opportunity for students to develop a comprehensive academic and evidence-based approach to their practice and to explore critically and critique palliative care service provision.

2. **Admission Requirements:**

   1. For the duration of the course, be employed in an area where the principles of palliative care are operationalized when caring for individuals with life threatening illness and their families; and
   2. Hold an honours degree in a health professional or related subject area.
   3. Otherwise satisfy the selection panel that they have the ability and/or the experience to complete the course successfully, subject to the discretion/permission of the Dean of Graduate Studies.

3. **Duration:** Two years, part-time.
4. **Course structure:** The course will commence with one full study week followed by one to two study days per week throughout the academic year. The specialist component of the course will be delivered in various study blocks. All students are required to complete successfully all theoretical and clinical practice modules. Students are required to undertake a total of 120 hours of supernumerary clinical practice within Specialist palliative care in year one of the course.

5. **Modules and European Credit Transfer System (ECTS):**

Modules

Theory and Practice of Enquiry Methods for Health Care (10 credits)

Ethics and Law in Health and Social Care (10 credits)

Palliative Care Philosophy, Concepts and Debate (10 credits)

Palliative approaches to pain and symptom management (10 credits)

Psychosocial, spiritual and therapeutic issues in palliative care (10 credits)

Leadership and Quality Improvement in Healthcare (10 credits)

Dissertation (30 credits)

The M.Sc. is 90 ECTS, the P.Grad.Dip. is 60 ECTS and the P.Grad.Cert is 30 ECTS.

6. **Progression:** To progress to the dissertation year, part-time masters students must successfully complete all the requirements of the P.Grad.Dip. as detailed in the course handbook. Students may, following consultation with the course Co-ordinator, opt not to progress to the dissertation year. Full-time masters students may choose not to progress to
the dissertation during year one. If a student chooses either option, the student will be eligible for consideration for the award of a Postgraduate Diploma in Palliative Care provided that six modules of the course have been successfully passed and 60 ECTS have been accumulated. Alternatively, the student may be eligible for consideration to exit with an award of a Postgraduate Certificate in Palliative Care; provided that three specialist modules have been successfully completed and 30 ECTS have been accumulated.

7. **Assessment and examinations:** A combination of assessment strategies is used to assess the learning outcomes for the course. In the second year a research dissertation must be submitted. The pass mark for all assessments is 50%. Each module must be passed independently and all practice assessments must be passed without compensation. In cases where students fail to achieve a pass grade in a written assignment, a re-submission will be permitted with a deadline for re-submission, as outlined in the course handbook. Only one re-submission will be allowed, and the maximum mark awarded for the re-submitted assignment is 50%. If a student fails a module on the second attempt, this indicates failure of the whole course. Compensation may be permitted at the discretion of the supplemental Court of Examiners, under specific conditions as outlined in the course handbook.

8. **Classification of Award:** The Postgraduate Certificate may be awarded at two levels (i) Postgraduate Certificate and (ii) Postgraduate Certificate with Distinction, which shall require an overall average mark of at least 70% across all taught modules. The Postgraduate Diploma may be awarded at two levels (i) Postgraduate Diploma and (ii) Postgraduate Diploma with Distinction, which shall require an overall average mark of at least 70% across all taught modules. The M.Sc. may be awarded a mark of Distinction. The award of a taught Masters with Distinction shall require the achievement of a distinction for the dissertation, and an overall average mark for the course of at least 70%. A distinction cannot be awarded if a candidate has failed any module during the period of study.
9. Re-admittance to M.Sc.: Students who are eligible for the award of Postgraduate Certificate may opt not to be awarded the P.Grad.Dip. and may re-enter the P.Grad.Dip. / M.Sc. within four years of having become eligible for the award of P.Grad.Cert. Students who are eligible for the award of Postgraduate Diploma may opt not to be awarded the P.Grad.Dip and may enter second year of the masters course within four years of having become eligible for the award of P.Grad.Dip. Students who were awarded a TCD P.Grad.Cert. within the previous four years may re-enter directly into the P.Grad.Dip. / M.Sc., with the permission of the course committee. Such students must undertake an additional 30 ECTS per course regulations, for the P.Grad.Dip. and an additional 60 ECTS (to include a Dissertation) for the M.Sc. For those students, the Postgraduate Diploma will be awarded on the basis of up to 60 ECTS and the Masters of up to 90 ECTS. Students who were awarded the P.Grad.Cert. must rescind their P.Grad.Cert. in order to re-enter onto the P.Grad.Dip./M.Sc. Students who were awarded a TCD P.Grad.Dip. in Palliative Care within the previous four years may enter directly into year two of the course, with the permission of the course committee. Such students must undertake additional modules of up to 30 ECTS credits, in addition to the dissertation, to accrue up to an additional 60 ECTS credits. Students who previously exited with the Postgraduate Diploma as a consequence of failing the dissertation will not be permitted to re-enter to pursue the Masters.

10. Course Co-ordinator: Prof. Kevin Connaire

Specialist Practice (P.Grad.Cert.)

Course Details: This P.Grad.Cert. in Specialist Practice course has been developed, in partnership with associated health service providers, to meet the demands and challenges within the health care system and specifically within specialist care. The course is firmly grounded in a body of knowledge and clinical expertise that aims to promote excellence in the area of specialist care practice. It is also designed to provide academically robust education for the students and the various modules offered develop and complement subjects undertaken at degree or ‘equivalent’ level.

Students must accumulate 30 ECTS and successfully complete three modules for the award of P.Grad.Cert. in Specialist Practice. Students who successfully complete the P.Grad.Cert.
in Specialist Practice without compensation are eligible for entry to the relevant M.Sc./P.Grad. Dip. course

**Duration:** One year, part-time.

**Admission Requirements Specialist Nursing strands:**

Admission to the strand will be subject to place availability. The entry criteria for this strand are:

- Current registration on the appropriate nursing division of the Nursing and Midwifery Board of Ireland Active Register
- Two years post-registration clinical experience since first registration
- Twelve months experience (within the last two years) in the specialty in Ireland at the time of application.
- Candidates must also fulfil one of the following criteria:

An honors degree in nursing or a related discipline or equivalent professional and academic qualification or satisfy the selection committee that they have the academic ability to successfully complete the programme, subject to the discretion/permission of the Dean of Graduate Studies.

- Each student will be engaged in specific practice settings in Ireland relevant to each individual strand for the duration of the programme of study.
- Additional criteria may be required by individual Health Service Providers.

**Admission Requirements Gerontological Nursing strand:**

The candidate must satisfy all of the following criteria:

- be registered as a nurse on the live register with Nursing and Midwifery Board of Ireland and
- be working in an area where gerontological nursing care is delivered in Ireland for the duration of the course;
- have a minimum of one years full-time clinical nursing practice or equivalent recent clinical nursing practice since first registration and
- hold an honors degree in nursing studies or equivalent
- or otherwise satisfy the course committee that they have the ability to complete and benefit from the course subject to the discretion/permission of the Dean of Graduate Studies.
Admission Requirements Interdisciplinary – Mental Health:

- be currently working in mental health/mental illness field; and
- normally hold an honors degree in a relevant discipline; or
- otherwise satisfy the selection panel that they have the ability to complete and benefit from the programme subject to the discretion/permission of the Dean of Graduate Studies.

Note, this strand is open to a wide range of professionals. Nurses undertaking this strand must have current registration on the appropriate division of the Nursing and Midwifery Board of Ireland live register.

Admission Requirements Interdisciplinary – Mental Health incl the Psychosocial Interventions strand:

- be currently working in mental health/mental illness field; and
- normally hold an honors degree in a relevant discipline; or
- otherwise satisfy the selection panel that they have the ability to complete and benefit from the programme, subject to the discretion/permission of the Dean of Graduate Studies.

Note, this strand is open to a wide range of professionals. Nurses undertaking this strand must have current registration on the appropriate division of the Nursing and Midwifery Board of Ireland live register.

Admission Requirements Interdisciplinary – Mental Health – Child, Adolescent and Family strand:

- be currently working in child, adolescent and family mental health services; and
- be currently employed in the area of mental health/mental illness/child, adolescent and family services and have Garda clearance for working with children and adolescents and
- normally hold an honors degree in a relevant discipline; or
- otherwise satisfy the selection panel that they have the ability to complete and benefit from the programme, subject to the discretion/permission of the Dean of Graduate Studies.

Note, this strand is open to a wide range of professionals. Nurses undertaking this strand must have current registration on the appropriate division of the Nursing and Midwifery Board of Ireland live register.
Admission Requirements Interdisciplinary – Palliative Care strand:

- For the duration of the course, candidates must be employed in Ireland in an area where the principles of palliative care are operationalised when caring for individuals with life threatening illness and their families.
- Have a minimum of one year's clinical experience in palliative care practice within the last 2 years and.
- Hold at least an upper second-class honors degree in a health professional or related subject area.
- Otherwise satisfy the selection panel that they have the ability to complete and benefit from the course, subject to the discretion/permission of the Dean of Graduate Studies.

Note, this strand is open to a wide range of professionals. Nurses undertaking this strand must have current registration on the appropriate division of the Nursing and Midwifery Board of Ireland live register. Please visit the Nursing and Midwifery Board of Ireland website for information on registering as a nurse or midwife in Ireland.

Admission Requirements Interdisciplinary – Dementia:

- For the duration of the course all applicants are required to be working in an area where dementia care is delivered;
- Normally hold an honors degree in a relevant discipline;
- Otherwise satisfy the selection panel that they have the ability to complete and benefit from the course, subject to the discretion/permission of the Dean of Graduate Studies.

Note, this strand is open to a wide range of professionals. Nurses undertaking this strand must have current registration on the appropriate division of the Nursing and Midwifery Board of Ireland live register.

Interdisciplinary Dementia:

1. Ways of Understanding Dementia and Dementia
2. Critical Issues in Assessment and Care Planning
3. Enhancing the Experience of Living with Dementia

Interdisciplinary Mental Health – Psychosocial Interventions:
1. Deconstructing Theoretical Perspectives on Human Distress
2. Working with People Who Experience Psychosis or Related Experiences
3. Inter-Professional Family Work

Interdisciplinary Mental Health:
Deconstructing Theoretical Perspectives on Human Distress
and a choice of two of the following:
Advancing Therapeutic Engagement Skills
Interface Between Mental Health and Criminal Justice
Working with People Affected by Eating Disorders
Suicide, Suicidal Behaviour and Self-harm
Promoting Equality, Citizenship and Social Inclusion for users of the Mental Health Services
Working with People Who Experience Psychosis or Related Experiences
Inter-Professional Family Work

Interdisciplinary Palliative Care:
1. Palliative Care Philosophy: Concepts and Debates
2. Palliative Approaches to Pain and Symptom Management
3. Psychosocial, Spiritual and Therapeutic Issues in Palliative Care

Interdisciplinary Gerontological Nursing:
1. Advancing Gerontological Nursing Practice
2. Promoting Health and Well Being with the Older Person
3. Gerontological Nursing: Concepts and Practice

Nursing Specialist – Emergency:
1. Nursing Management of Medical Emergencies
2. Nursing Management of Medical, Paediatric and Mental Health Emergencies
3. Management of Surgical Emergencies and Trauma Nursing

**Nursing Specialist – Intensive Care:**
1. Principles of Intensive Care Nursing
2. Management of the Critically Ill Adult 1
3. Management of the Critically Ill Adult 2

**Nursing Specialist – Cardiovascular:**
1. Introduction to the Nursing Management of a Cardiovascular Patient
2. Advanced Nursing Management of a Patient with Electro-Physiological Dysfunction
3. Advanced Nursing Management of a Patient with Cardiovascular Dysfunction

**Nursing Specialist – Renal:**
1. Nephrology Nursing
2. Transplant and Peritoneal Dialysis Nursing
3. Haemodialysis and Allied Therapies Nursing

**Nursing Specialist – Cancer Care and Haematology:**
1. Cancer and Haematology Nursing
2. Psychosocial Issues in Haemato-Oncology Nursing
3. Haemato-Oncology Nursing

**Nursing Specialist – Peri-Operative:**
1. Principles of Perioperative Nursing
2. Peri-Operative Department Management
3. Nursing Management of the Perioperative Patient

**Nursing Specialist – Orthopaedic:**
1. Applied Science and Principles of Orthopaedic Nursing
2. Principles of Trauma Orthopaedic Nursing
3. Principles of Elective Orthopaedic Nursing

All Modules are 10 ECTS.

**Course Co-ordinator:** The Course Co-ordinator of the relevant M.Sc./P.Grad.Dip. course.

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**School of Pharmacy and Pharmaceutical Sciences**

**Community Pharmacy (M.Sc./P.Grad.Dip.)**

1. **Introduction:** These courses are intended to help community pharmacists to develop their clinical, managerial and research skills, meet duties imposed by the HSE contract, undertake the role of a supervising pharmacist or superintendent pharmacist with confidence, extend their professional role and contribute to patient care as part of the primary health care team. Because of the distance-learning format, participants can continue in full-time employment throughout the courses.

2. **Admission Requirements:** Candidates must be

1. registered (or eligible to apply for registration) as a pharmacist with the Pharmaceutical Society of Ireland

2. currently employed (full-time/part-time) in community pharmacy.

3. **Course Structure:** Core material comprises a series of taught modules covering clinical, social and administrative aspects of pharmacy practice, with opportunities for specialization in particular fields. For the award of the M.Sc. degree students must also
successfully complete a research project relevant to community pharmacy practice. Alternatively, students who successfully complete taught modules amounting to 60 credits may exit with a Postgraduate Diploma.

4. **Duration:** This is a two-year part-time course. However, students may apply to undertake the M.Sc. over a three-year period: two years for the taught modules (60 credits) and one additional year for the research project (30 credits).

5. **European Credit Transfer System (ECTS):**

   The M.Sc. carries 90 ECTS credits:
   - Clinical Pharmacy 1 (10 credits)
   - Social and Administrative Pharmacy (5 credits)
   - Practice-Based Workbooks 1 (15 credits)
   - Clinical Pharmacy 2 (10 credits)
   - Social and Administrative Pharmacy 2 (5 credits)
   - Practice-based Workbooks 2 (10 credits)
   - Community Pharmacy Workshops (5 credits)
   - Research Module and Dissertation (30 credits)

   The Postgraduate Diploma carries 60 ECTS credits:
   - Clinical Pharmacy 1 (10 credits)
   - Social and Administrative Pharmacy 1 (5 credits)
   - Practice-based Workbooks 1 (15 credits)
   - Clinical Pharmacy 2 (10 credits)
   - Social and Administrative Pharmacy 2 (5 credits)
   - Practice-based Workbooks 2 (10 credits)
   - Community Pharmacy Workshops (5 credits)

6. **Assessment:** Core material is assessed on a continuous basis with written assignments and practice-based workbooks, and written examinations are held annually. M.Sc. candidates must present their research both orally and as a written dissertation.
(18,000 – 20,000 words). The pass mark is 50%, and compensation between modules is not permitted. In order to progress to the second year of the course, students must pass all modules taken in the first year. The final mark for the course is the credit-weighted average of the mark awarded in each module.

To qualify for the award of the M.Sc. degree, students must pass each module, including the dissertation. The M.Sc. with distinction may be awarded to students who pass all modules, and achieve at least 70% in the overall mark for the course and in the dissertation. To qualify for the award of the Postgraduate Diploma, students must pass each taught module amounting to 60 credits. The Postgraduate Diploma with distinction may be awarded to students who pass taught modules amounting to 60 credits and who achieve an overall average mark of at least 70%.

7. **Course Co-ordinator:** Professor Sheila Ryder

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**Hospital Pharmacy (M.Sc.)**

1. **Introduction:** The M.Sc. in Hospital Pharmacy provides students with the knowledge and skills necessary to undertake all aspects of hospital pharmacy including clinical pharmacy, dispensary and drug distribution, administration and management, aseptic compounding, pharmacoeconomics and medicines information.

2. **Admission Requirements:** Eligible candidates must hold a first or second-class (upper division) Honors Bachelor degree in pharmacy. Candidates must be registered (or eligible to be registered) with the Pharmaceutical Society of Ireland. Candidates must have a minimum of one year’s experience working in a hospital pharmacy setting.

3. **Duration:** This is a two-year, part-time course with lectures and tutorials taking place on one half-day per week in a central location.

4. **Course Structure/Content:** The programme consists of formal lectures, tutorials and workshops. The M.Sc. programme comprises 9 modules: 8 taught and 1 research module (including M.Sc. dissertation). All modules are compulsory.

5. **European Credit Transfer System (ECTS):**

The M.Sc. carries 90 ECTS credits:
6. **Assessment:** Assessment of the course will include written term tests, written assignments, oral presentations, an Objective Structured Clinical Examination and a written dissertation (approximately 20,000 words in length). The pass mark for all elements is 50%, and compensation between modules is not permitted. Students who fail an assignment/test may be asked to re-submit work; marks awarded at re-assessment are capped at the pass mark. In order to progress to the second year of the course, students must pass all modules taken in the first year. The final mark for the course is the credit-weighted average of the mark awarded in each module. To qualify for the award of the M.Sc. degree, students must pass each module, including the dissertation. The M.Sc. with distinction may be awarded to students who pass all modules, and achieve at least 70% both in the overall mark for the course and in the dissertation. A viva-voce examination will be conducted by the External Examiner.

7. **Closing Date:** The intake to the course will be biennial and restricted in number with a commencement date in January. Applications for admission should be made on-line not later than 30th June in the year prior to the January commencement date of the proposed year of entry.

8. **Course Co-ordinator:** Ms Niamh McMahon

Pharmaceutical Manufacturing Technology (M.Sc./P.Grad.Dip.)

1. **Introduction:** EC Directives (2001/83/EC and 2001/82/EC) stipulate that manufacturers of pharmaceutical products for human and veterinary use must have at their
services at least one “Qualified Person”. This taught course in Pharmaceutical Manufacturing Technology enables science graduates to acquire the specialist knowledge in pharmaceutical subjects and fulfil the educational requirements related to registration as a “Qualified Person”). Articles 49 and 53 respectively specify the minimum conditions of qualifications for such a person which are as follows:

(a) Possession of a diploma, certificate or other evidence of formal qualifications awarded on completion of a university course of study, or a course recognised as equivalent by the Member State concerned, extending over a period of at least four years of theoretical and practical study in one of the following scientific disciplines: pharmacy, medicine, veterinary medicine, chemistry, pharmaceutical chemistry and technology, biology.

However:

– the minimum duration of the university course may be three and a half years where the course is followed by a period of theoretical and practical training of minimum duration of one year and including a training period of at least six months in a pharmacy open to the public, corroborated by an examination at university level;

– where two university courses or two courses recognised by the State as equivalent co-exist in a Member State and where one of these extends over four years and the other over three years, the three-year course leading to a diploma, certificate or other evidence of formal qualifications awarded on completion of a university course or its recognised equivalent shall be considered to fulfil the condition of duration referred to in (a) in so far as the diplomas, certificates or other evidence of formal qualifications awarded on completion of both courses are recognised as equivalent by the State in question.

The course shall include theoretical and practical study bearing upon at least the following basic subjects:

1. Applied Physics
2. General and Inorganic Chemistry
3. Organic Chemistry
4. Analytical Chemistry
5. Pharmaceutical Chemistry, including Analysis of Medicinal Products
6. General and Applied Biochemistry (Medical)
7. Physiology
8. Microbiology
9. Pharmacology
10. Pharmaceutical Technology
11. Toxicology

Studies in these subjects should be so balanced as to enable the person concerned to fulfil the obligations specified in Articles 51 and 55.

In so far as certain diplomas, certificates or other evidence of formal qualifications mentioned in (a) above, do not fulfil the criteria laid down above, the competent authority of the Member State shall ensure that the person concerned provides evidence of adequate knowledge of the subjects involved.

(b) Practical experience for at least two years, in one or more undertakings which are authorised to manufacture proprietary medicinal products, in the activities of qualitative analysis of active substances and of the testing and checking necessary to ensure the quality of proprietary medicinal products. The duration of practical experience may be reduced by one year where a university course lasts for at least five years and by a year and a half where the course lasts for at least six years.

While the B.Sc. (Pharm.) degree course fully satisfies the educational requirements of the Directives 2001/83/EC and 2001/82/EC, this course is intended to enable graduates of other disciplines to acquire the necessary specialised knowledge in pharmaceutical subjects to work in the pharmaceutical industry as “Qualified Persons”. It is recognised by the Health Products Regulatory Authority as fulfilling the educational requirements related to registration as a “Qualified Person” (Note: applicants with a three-year primary degree must qualify with a M.Sc. to fulfil the educational requirements related to registration as a “Qualified Person”).

2. Course Structure: The course is presented in a distance learning form and extends over two years. Participants receive nine module booklets in each year of the course. The general areas covered are Pharmaceutical, Medicinal and Analytical Chemistry (four modules), Pharmaceutical Processing (nine modules), Pharmaceutical Biotechnology (one module) and Drug Action, Uses and Assessment (four modules). Participants must also undertake a number of manufacturing facility visits.

In the second year of the course students undertake an industrial dissertation. A dissertation requires an extensive literature review followed by experimental work or data acquisition and subsequent analysis of data that has been generated by the student.

3. European Credit Transfer System (ECTS):

The M.Sc. carries 120 ECTS credits and the Postgraduate Diploma carries 90 ECTS credits.

Year 1 comprises of nine modules at 5 credits each as follows:
Year 2 comprises of 9 modules at 5 credits each as follows:

Biopharmaceutics and Pharmacokinetics
Sterile Products
Pharmaceutical Biology and Pharmacognosy
Medicinal Chemistry
Project Management
Chemotherapy and Drug Assessment
Pharmaceutical Biotechnology
GMP and Design
Packaging
Industrial Dissertation (30 credits)

4. **Admission Requirements:** Applications will be considered from graduates of relevant scientific disciplines who have completed a university course or a course recognised as equivalent, extending over three to four years. The intake to the course is limited and the final selection is by an Admissions Committee. Applicants are expected to be employed in the pharmaceutical industry or with a pharmaceutical regulatory authority at the time of their application or to have previously worked in the industry.

Applications should be made on-line.
5. **Assessment:** Overall assessment of candidates is based on tutor marked assignments, manufacturing facility tour reports and written examinations. The pass mark for all taught elements is 40%, while the pass mark for the research dissertation is 50%. In order to progress to the second year of the course students must pass all modules taken in the first year. The final mark for the course is the credit-weighted average of the mark awarded in each module taken. To qualify for the award of the M.Sc. degree, students must (i) obtain an average mark of 60% or higher in the taught components of the course, and (ii) obtain a pass grade in the industrial dissertation. Alternatively students may exit with the Postgraduate Diploma award provided that they have passed the taught modules amounting to 90 credits. Coursework, annual examinations and the M.Sc. dissertation are subject to review by an External Examiner.

5. **Course Co-ordinator:** Ms Lorna Loughrey

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**Pharmaceutical Sciences (M.Sc./P.Grad.Dip.)**

1. **Introduction:** The M.Sc./P.Grad.Dip.in Pharmaceutical Sciences is an integrated multidisciplinary programme addressing fundamental and applied aspects of drug and drug product discovery, regulation, development, production and analysis with particular emphasis on the regulatory environment in which the Pharmaceutical Industry operates. The objective of the programme is to equip science graduates with knowledge and skills in the pharmaceutical sciences. It will help prepare candidates for careers in pharmaceutical research relevant to academic and manufacturing sectors. It is also expected that the course will help to stimulate interest in the pharmaceutical sciences and associated product and service innovation opportunities.

2. **Admission Requirements:** Applicants will be accepted, subject to the availability of places, from holders of an Honors Bachelor degree in a relevant Science discipline (e.g. pharmacy, chemistry, analytical chemistry, microbiology, biochemistry, pharmacology and another appropriate primary Honors degree e.g. I.T., medicine or veterinary). Equivalent primary and/or postgraduate qualifications will also be considered, particularly with relevant professional experience, after an interview with the Course Director and consultation with the Dean of Graduate Studies. Applications will be evaluated by the Course Director in consultation with the Course committee and Dean of Graduate Studies as appropriate.

3. **Duration:** The course is available for full-time study over one year.

4. **Course Structure/Content:** The course comprises lectures, workshops, seminars, laboratory work, written assignments and factory visits. In addition each student is required to write a major essay on a designated topic in the area of pharmaceutical analysis.
Students proceeding to a M.Sc. degree will be required to undertake a research project and present a detailed scientific report at the end of the course.

The course consists of *ten core modules*:

1. Regulatory aspects and industrial pharmacy (10 credits)
2. Chromatographic and other separative methods of analysis (5 credits)
3. Spectroscopic methods for drug analysis (5 credits)
4. Molecular pharmaceutics and advanced drug delivery (5 credits)
5. Analysis of low level drug analytes (5 credits)
6. Pharmaceutical and medical nanotechnology (5 credits)
7. Pharmacological and related methods (5 credits)
8. Pharmaceutical biotechnology (5 credits)
9. Formulation development and evaluation (5 credits)
10. Professional skills in pharmaceutical sciences (10 credits)

The taught modules are supported by lectures and workshops on presentation and research skills and visits to industrial laboratories. The course is taught by University staff, along with specialist visiting lecturers from industry and government bodies. The research project may be conducted either in the School of Pharmacy or at the student’s place of employment but in either case supervision is exercised by a member of the School of Pharmacy academic staff. Students register on the M.Sc. course in the first instance.

5. **European Credit Transfer System (ECTS):**

The M.Sc. carries 90 ECTS credits and comprises 10 core modules (60 credits) and a Research Dissertation (30 credits).

The Postgraduate Diploma carries 60 ECTS credits.

6. **Assessment:** Assessment of candidates is based on tutor marked assignments, written examinations in January and in April each year, presentations and practical work. The M.Sc. project report will typically be of 18,000-20,000 words and will be examined in July. The pass mark for written examinations is 40%, while the pass mark for the research dissertation is 50%. The final mark for the course is the credit-weighted average of the mark awarded in each module. Candidates must pass all elements including written examinations in order to be allowed to proceed to the M.Sc. project. Upon successful completion of the taught modules amounting to 60 credits, students may, following consultation with the
Course Co-ordinator, opt not to progress to the M.Sc. If a student chooses such an option, the student will be eligible for the award of a Postgraduate Diploma in Pharmaceutical Sciences.

To qualify for the award of the M.Sc. degree, students must, as a minimum, achieve an overall average mark of 40%, and achieve at least 50% in the dissertation. The M.Sc. with distinction may be awarded to students who pass all modules, and who achieve a mark of at least 70% in the dissertation and in the overall average mark for the course. The Postgraduate Diploma with distinction may be awarded to students who pass modules amounting to 60 credits and who achieve an overall average mark of at least 70%. A distinction cannot be awarded if a candidate has failed any credit during the course.

Pharmaceutical Technology (M.Sc./P.Grad.Dip.)

There is no intake to this course in 2015/16

1. **Aims:** The main aim of the programme is to give students currently working or intending to work in the human and veterinary pharmaceutical industries an understanding of the fundamentals of Pharmaceutical Technology relevant to product formulation, development and production. In addition to theoretical knowledge, graduates will be equipped with practical experience and research methodology that will enable them to become involved in research and development in these areas.

2. **Admission Requirements:** Applications will be accepted from graduates who:
   
   1. Hold a good Honors Bachelor degree in a relevant science discipline or
   2. Hold an equivalent qualification with relevant professional experience
   3. Otherwise satisfy the course admission committee that they have the ability to succeed and benefit from the course.

   Students register on the M.Sc. course in the first instance.

3. **Duration:** The course is run on a full time basis, over a period of one academic year.

4. **Course Structure:** The Postgraduate Diploma will incorporate both practical and taught elements. There will be a strong emphasis on the application of pharmaceutical technology in the industrial environment. M.Sc. students will receive instruction in research methodology and will undertake an independent research project which will be reported in the form of a dissertation.
5. **Syllabus for the Postgraduate Diploma:** Students will take seven to eight modules, four of which will be core. The modules to be taken by students will be chosen in consultation with the Course Co-ordinator, having regard to the specific knowledge base of individual applicants.

   **Core Modules:**

   1. Fundamentals of Pharmaceutical Formulation (10 credits)
   2. Pharmaceutical Preformulation (10 credits)
   3. Unit Processes and Formulation Engineering (10 credits)
   4. Formulation of Sterile Products (10 credits)

   **Elective Modules include:**

   1. Biopharmaceutics and Pharmacokinetics for Pharmaceutical Technology (10 credits)
   2. Molecular Pharmaceutics and Advanced Drug Delivery (5 credits)
   3. Pharmaceutical Technology – Biotechnological Aspects (5 credits)
   4. Regulatory Affairs (5 credits)
   5. Pharmaceutical and Medical Nanotechnology (5 credits)

6. **European Credit Transfer System (ECTS):** The M.Sc. carries 90 ECTS credits:

   Four core modules (40 credits)
   Three to four elective modules (20 credits)
   Research Dissertation (30 credits)

   The Postgraduate Diploma carries 60 ECTS credits.

7. **Assessment:** Postgraduate Diploma candidates will be assessed on the basis of written examinations held in April and/or May together with coursework in the form of tutorial marked assignments and practical work undertaken during the year. M.Sc. candidates will in addition complete a substantial research project and submit a dissertation of approximately 25,000 words. Both the examinations and the dissertation will be subject to external moderation.
8. **Location:** Teaching will take place in Trinity College. There will be a number of site visits to industrial plants.

9. **Course Co-ordinator:** Professor Lidia Tajber

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**Pharmacy (M.Pharm.)**

**Introduction:** The purpose of this course is to provide in-service practical training (internship programme) for trainee pharmacists and to offer preparation for pharmacy graduates seeking to register as pharmacists.

**Aims:** The M.Pharm. programme is designed to produce graduates with the knowledge and competencies required under the terms of the Pharmacy Act 2007 and the Pharmaceutical Society of Ireland (Education and Training) Rules 2008, satisfy the educational requirements of a Qualified Person as set out in Article 49 of Directive 2001/83/EC as amended when taken in conjunction with the B.Sc.(Pharm.) or B.Pharm. degrees conferred by TCD, UCC and RCSI, and qualify graduates for entry onto the register of pharmacists maintained by the Pharmaceutical Society of Ireland (PSI).

**Admission requirements:** Candidates eligible to enter the course must hold a primary degree in pharmacy comprising at least four years of full-time education in a university or higher institute of similar standing and compliant with Directive 2005/36/EC, and must have been declared satisfactory by the PSI. As required by the PSI, the course will be open to applications from all eligible pre-registration pharmacy graduates from Schools of Pharmacy in the Republic of Ireland.

**Duration:** The course is offered on a one-year (12 months) full-time basis.

**Course content:** The course consists of six compulsory modules with specialist strands, to accommodate variation in the interns’ workplace environments, presented predominantly as an e-learning programme via a virtual learning environment. There is also a compulsory, year long Pharmacy Practice Research module, enabling the intern to gain skills in developing a research question, to devise investigations to explore the research question, and to develop practical skills in managing a research project as part of a small team.

The course carries a total of 90 ECTS credits:
- **MPH001: Therapeutics 1: Body systems** (10 ECTS)
The programme will be delivered almost entirely by distance learning. Each student (intern) will undertake either two successive full-time 6-month placements or one full-time 12-month placement under the supervision of suitable pharmacist preceptor(s). This period must include a minimum of six months full-time in a clinical (patient-facing) role in either a hospital or a community pharmacy. All placements must be approved in advance by the University on behalf of the Pharmaceutical Society of Ireland.

Assessment and examination: Students are evaluated by coursework, competence assessment and performance appraisal, a reflective portfolio and examinations. Students must satisfy the examiners in all the prescribed components; no compensation is possible. If a candidate's performance is judged unsatisfactory in any component, he/she may, at the discretion of the examiners, undertake remedial action and re-attempt through submission of supplementary assessment(s) by an appointed date or by sitting supplementary examination(s). Only one supplementary attempt will normally be permitted for any component. The mark available in a supplementary assessment or examination is capped at the pass mark for that component. In order to become eligible to sit the terminal Professional Registration Examination (PRE), the student must first have attained a pass mark in all other components and must satisfy the requirements set out in Rule 20 of the Pharmaceutical Society of Ireland (Education and Training) Rules 2008. The PRE may be attempted on a maximum of four occasions, and must be passed within a maximum of three years of the student's successful completion of all other required components of the M.Pharm. programme. This three year time period shall exclude any period of statutory protected leave such as maternity leave, parental leave, carer's leave or adoptive leave, and may exclude any period of sick leave approved by the PSI. The PRE will be scheduled twice annually on dates agreed with the PSI (normally in October and May).

The final mark will be based on a credit-weighted average of the mark awarded in each module. To qualify for the award of the M.Pharm. degree, the student must attend satisfactorily, and must achieve pass marks in every component, including the Professional Registration Examination. In order to qualify for the award of M.Pharm. with distinction students must in addition achieve a final overall mark for the course of at least 70% and a mark of at least 70% in the Pharmacy Practice Research Project. This course has no Postgraduate Diploma exit.

Exclusion or expulsion: Students undertaking the M.Pharm. programme are subject to the Fitness to Practise requirements of the School of Pharmacy and Pharmaceutical Sciences and of the University. Notwithstanding the provisions of any other regulation, exclusion from the course may be recommended to the University Council at any stage in respect of any student whose progress or performance is unsatisfactory or to the Board of Trinity College in respect of any student whose conduct is unsatisfactory. Similarly a significant fitness to practise issue may result in exclusion. Any student who behaves in an unprofessional
manner in relation to their clinical duties will be subject to serious disciplinary procedures, which could result in expulsion.

**Course co-coordinator:** Asst. Prof. Sheila Ryder

## Validated Postgraduate Courses

This section contains specific information on postgraduate courses validated by The University of Dublin, Trinity College Dublin.

### Masters in Education Studies in Visual Arts (M.E.S./P.Grad.Dip. in Visual Arts Education)

**Introduction:** The Masters in Education Studies in Visual Arts offers a distinctive learning experience based on developing in participants a deep theoretical understanding and critical awareness of key issues in education studies with specific reference to visual arts education.

The course is framed to provide a clear interaction between theory and practice and includes one compulsory broad-based education studies module (15 credits), a research methods and dissertation module (30 credits), and three specialism modules (3x15 credits) in visual arts education. In total 90 ECTS credits are awarded for the course. The course aims to maintain a rigorous academic core whilst broadening the scope of content and assessment to include professional application.

The course will be delivered over two academic years, part-time. Typically the teaching activities are organised outside of normal working hours, and classes are held at Marino Institute of Education (MIE). During Year 2, students will be supported by members of the supervision team in identifying a suitable research topic for their dissertation within the area of visual arts education which is the profile of this course.

**Admission:** Academic requirements:

- An Honours Bachelor Degree (minimum level: Second Class Honours) and at least three years’ teaching experience or equivalent professional experience.
• In exceptional circumstances, students who meet the honours degree requirement but who do not have the necessary teaching experience, may be required to satisfy the course admissions committee, through the interview process and a written academic assignment, that they have the ability to complete and benefit from the course.

• IELTS – Level 6.5 (or equivalent for applicants whose first language is not English and who have not been educated through the medium of English).

Applicants for this course apply directly to the Admissions Office in MIE. Application forms for the course are available from the MIE registrar’s office. Applicants who satisfy the academic requirements are invited to attend an interview. Qualified applicants are placed in order of merit determined by the results of the interview.

**Masters in Education Studies (Leadership in Christian Education)**

**Introduction:** The Masters in Education Studies (Leadership in Christian Education) offers a distinctive learning experience based on developing in the students a deep theoretical understanding and critical awareness of key issues in education studies, related to leadership in Christian education.

The course is framed to provide a clear interaction between theory and practice and includes one compulsory broad-based education studies module (15 credits), a research methods and dissertation module (30 credits), and three specialism modules (3x15 credits) in leadership in Christian education. The total credit weighting for the course is 90 credits. The course aims to maintain a rigorous academic core whilst broadening the scope of content and assessment to include professional application.

The course will be delivered over two academic years, part-time. Typically the teaching activities are organised outside of normal working hours, and classes are held at Marino Institute of Education (MIE).

**Admission:** Academic requirements:

• An Honours Bachelor Degree (minimum level: Second Class Honours) and at least three years’ teaching experience or equivalent professional experience.

• In exceptional circumstances, students who meet the honours degree requirement but who do not have the necessary teaching experience, may be required to satisfy the course admissions committee, through the interview process and a written academic assignment, that they have the ability to complete and benefit from the course.
• IELTS – Level 6.5 (or equivalent for applicants whose first language is not English and who have not been educated through the medium of English).

Applicants for this course apply directly to the Admissions Office in MIE. Application forms for the course are available from the MIE registrar’s office. Applicants who satisfy the academic requirements are invited to attend an interview. Qualified applicants are placed in order of merit determined by the results of the interview.

Doctorate in Music Performance (D.Mus.Perf.)

(National Framework of Qualifications, Level 10)

1. Introduction: The Doctorate in Music Performance course leads to the award of Doctor in Music Performance (D. Mus. Perf.) which is a qualification of prestige and excellence. The course is full time four years and combines the rigours of advanced research scholarship with the challenge of becoming a technically assured and artistically confident performing musician in the areas of instrumental, vocal or conducting studies. The course is delivered in its entirety by the Royal Irish Academy of Music. The number of students admitted to the course is small and therefore entry will only be open to graduates of proven excellence in music performance at an advanced professional level.

The key distinguishing feature of the Royal Irish Academy of Music’s course is that it is intended to develop the capacity of candidates to make a contribution to the advancement of knowledge of artistic research in their own field of music performance through critical reflection and performance.

The RIAM doctorate candidate will successfully complete the following components to obtain the degree: Academic and research methodology seminars; a Dissertation of 30,000 words; a Lecture Recital; three “full-length” recitals; two Concerto Performances; a Chamber Music recital.

2. Admission: Admission to the doctorate course is administered by direct entry to the Royal Irish Academy of Music. The application deadline is April 1st of each year. Late applications will be considered if available places remain. There is an audition procedure involving a performance and interview which usually takes place in late May. Further information about the course can be obtained directly from the RIAM (www.riam.ie).

Master in Education Studies (Early Childhood Education) (M.E.S.)

(National Framework of Qualifications, Level 9)
1. **Introduction**: The Master in Education Studies (Early Childhood Education) is a postgraduate course for primary teachers and early childhood practitioners as well as those working with young children in the area of advocacy. The degree award is placed at Level 9 on the National Framework of Qualifications.

2. **Course structure**: The course will be delivered over two academic years, part-time. The total credit weighting for the programme is 90 credits. The taught component carries 60 credits consisting of four modules (15 credits each). The remaining 30 credits are allocated to the research project (included within these credits are 5 credits allocated to the formal research methodology module and 25 credits to the Dissertation module). Typically the teaching activities are organised outside of normal working hours, and classes are held at Marino Institute of Education (MIE).

3. **Admission requirements**: Applicants to the course will generally have an Honours Bachelor Degree (minimum level: Second Class Honours) and at least three years’ teaching experience or equivalent professional experience. In exceptional circumstances, students who meet the honours degree requirement but who do not have the necessary teaching experience, may be required to satisfy the course admissions committee, through the interview process and a written academic assignment, that they have the ability to complete and benefit from the course. IELTS – Level 6.5 (or equivalent for applicants whose first language is not English and who have not been educated through the medium of English). Further information about the course can be obtained directly from the Marino Institute of Education (admissions@mie.ie). Applicants who satisfy the academic requirements are invited to attend an interview. Qualified applicants are placed in order of merit determined by the results of the interview.

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**Master in Education Studies (Intercultural Education) (M.E.S.)**

(National Framework of Qualifications, Level 9)

1. **Introduction**: This part-time professional degree course leading to the award of Master in Education Studies (Intercultural Education) is delivered in its entirety by the Marino Institute of Education (MIE). The course carries 90 ECTS credits and runs over two years with a new cohort commencing in September. It seeks to provide students with a high level of theoretical understanding and critical awareness of key issues in the field of intercultural education, and to enable students to conduct original research in the field. The programme is relevant for all educators, whether working in multi-ethnic or more homogeneous settings.

2. **Course Structure**: The course consists of four integrated modules in Year 1 followed by a research project in Year 2. It involves incremental learning, with each module
building upon and linking with the previous section. Themes that bridge modules include the relationship between societal power structures, political theory and human rights, the place of minority languages and minority religions. Furthermore, specific pedagogical practices that reflect a social justice approach are made clear in each module, whether in relation to cultural diversity, language diversity, religious diversity, or to a human rights approach. Further linkage across course components focuses on an exploration of equality legislation and educational policies and the implications of same within each constituent module, the requisite knowledge, skills and attitudes involved in reflective practice and the importance of an integrated approach to intercultural education which involves the whole school community, including parents / guardians.

3. Admission Requirements: Applicants to the course will generally be teachers registered with the Teaching Council. Applicants are normally expected to hold an Honors Bachelor degree at a minimum level of second class honors, a teaching qualification recognised by the Teaching Council, and at least three years’ teaching experience or equivalent professional experience. In exceptional circumstances, applicants can satisfy the course admissions committee through the interview process and a written academic assignment that they have the ability to complete and benefit from the course. Further information about the course can be obtained directly from the Marino Institute of Education (admissions@mie.ie).

Education (Primary Teaching) (H.Dip.)

The course is discontinued and is not open to new entrants post-1st September 2015

(National Framework of Qualifications, Level 8)

1. Introduction: The Higher Diploma in Education (Primary Teaching) is a full-time professional course of study delivered in its entirety by Coláiste Mhuire, Marino Institute of Education and is intended to provide for the academic and professional requirements of primary school teachers.

   The award of the Higher Diploma in Education (Primary Teaching) is awarded by Trinity College Dublin to students who have successfully completed the course. The course meets the professional requirements of Regulation Two (Primary) of the Teaching Council Regulations 2009. Under Circular 40/2010 of the Department of Education and Skills, graduates of the course are eligible for appointment to recognised primary schools.

   This award carries 90 ECTS credits. The course runs over 18 months and starts in February of the year of entry. The curriculum includes Foundation Studies (History of Educational Ideas, Philosophy of Education, Sociology of Education, Child Development and Educational Psychology) as well as competencies and methodologies related to the Primary School curriculum.
Students undertake teaching practice three times over the duration of the course. Each practice extends over four weeks involving initial pupil observation, assisting the classroom teacher, and preparation for and classroom teaching of all subjects. Students are also required to complete a placement in a Special Education setting and language training outside term time in the Gaeltacht as an integral part of the programme.

3. **Admissions:** The course has to be sanctioned from year to year by the Department of Education and Skills and is advertised in the national press with details of the closing date for application. Applicants must fulfill specific requirements set by the Department of Education and Skills. There follows a selection procedure of eligible applicants, which involves a general interview and an oral Irish interview. Further information about the course can be obtained directly from the College.

**Learning Support and Special Educational Needs (P.Grad.Dip.)**

The course is not open to new entrants post-1st September 2015 and will no longer be validated by Trinity.

1. **Introduction:** The Postgraduate Diploma in Learning Support and Special Educational Needs is a part-time professional course of study delivered in its entirety by the Church of Ireland College of Education. This award carries 60 ECTS credits and the course runs over one year with a new cohort of students commencing in September. The Postgraduate Diploma in Learning Support and Special Educational Needs is awarded by Trinity College Dublin to students who have successfully completed the course.

   The aim of the course is to provide substantial theoretical and practical training for teachers working with pupils with special educational needs and requiring learning support. The Department of Education and Skills has agreed the content of the course and approaches used, in the context of Continuing Professional Development for teachers involved in Learning Support and Special Education funded through Teacher Education Section.

   A blended model of delivery is employed to cover modules including Inclusion of Pupils with Learning Support (LS) and Special Educational Needs (SEN), Child and Adolescent Development, Identification and Assessment, Teaching Pupils with Learning Support (LS) and Special Educational Needs (SEN) and Effective Planning and Management.

   Participants are assessed on the basis of full attendance, successful completion of written assignments, supervision and evaluation of their work in school.

2. **Admissions:** The programme is open to all serving teachers who are employed in a position funded by the Department of Education and Skills and who provide Learning Support and Resource Teaching in recognised Primary schools, Post-Primary schools,
Special Schools and other recognised educational services. Teachers are required to be registered with the Teaching Council.

Education (Further Education) (Prof.Dip.(F.E.))

(National Framework of Qualifications, Level 8)

1. **Introduction:** The Professional Diploma in Education (Further Education) is a Professional Diploma which is intended to provide for the academic and professional requirements of teachers working in Further Education. The Professional Diploma award is placed at Level 8 on the National Framework of Qualifications.

2. **Course structure:** It is a part-time course of study offered by Marino Institute of Education. The course runs over two years and carries 60 credits. It is designed to equip student with a range of knowledge and skills related to the profession of teaching in Further Education settings. The curriculum includes Foundation Studies, Professional Studies and a Practical Teaching Programme. The Practical Teaching Programme includes two distinct educational placements involving both observation and six weeks of assessed teaching practice.

The course meets the professional requirements for registration with the Teaching Council as established under Teaching Council Regulations 2011.

3. **Admission requirements:** The following qualification requirements will apply to applicants wishing to be admitted to the course:

   – The applicant must hold an Honors Bachelor degree or equivalent (not less than level 8 on the National Framework of Qualifications (NFQ) carrying at least 180 ECTS credits

   OR

   – An Ordinary Bachelor degree or equivalent (not less than level 7 on the NFQ) carrying at least 180 ECTS credits, in addition to either (i) an appropriate additional qualification, or (ii) certified accreditation of prior learning based on a minimum of three years’ experience in a workplace or instructional setting which is relevant to the candidate’s qualifications.

4. **Duration:** This course is offered on a part-time basis over two years.
**Master in Music Performance (M.Mus.Perf.)**

(National Framework of Qualifications, Level 9)

1. **Introduction:** The Master in Music Performance is a two year full-time professional course of study which leads to the award of Master in Music Performance (M. Mus. Perf.). The course is delivered in its entirety by the Royal Irish Academy of Music. It is intended to provide for the academic and professional requirements of performing musicians. The number of students admitted to the course is small and therefore entry will only be open to graduates of proven excellence in music performance. This award carries 120 ECTS credits.

The primary emphasis of the course is on practical studies (vocal, conducting or instrumental) including both solo and ensemble work. These studies are supported by classes in which the student is encouraged to pursue his/her own study of a related musical subject. Seminars in professional practice, other specialist music topics and master classes will be given by staff of the Royal Irish Academy of Music and by international visiting artists and scholars.

2. **Admission:** Admission to the Master course is administered by direct entry to the Royal Irish Academy of Music. The application deadline is February 1st of each year. There is an audition procedure involving a performance and interview which usually takes place in late April. Further information about the course can be obtained directly from the RIAM (www.riam.ie).

This page contains information from a previous calendar. For up to date information please visit the current Calendar Site.

**Professional Master of Education (Primary Teaching) (PME Primary Teaching)**

(National Framework of Qualifications, Level 9)

1. **Introduction:** The Professional Master of Education (Primary Teaching) is a professional course which provides for the academic and professional requirements of primary school teachers.

It is a full-time course offered by Marino Institute of Education which runs over two years and carries 120 ECTS credits. It is designed to equip student teachers with a range of knowledge and skills related to the profession of primary teaching. The curriculum includes foundation studies, integrating language study, history of education, sociology of education, philosophy of education, educational psychology, curriculum and assessment, as well as modules in subject content knowledge and integrated methodologies of all subjects of the primary school curriculum. The programme contains an intensive research module and students are required to complete a dissertation on a relevant research area of their choice. From the
academic year 2016/17 this module will be offered in collaboration with four partner institutions, Marino Institute of Education, University of Dublin Trinity College, University College Dublin, and National College of Art and Design in part on one or more of the four campus locations and in part online.

Students undertake extended school placement during both years of the course. Each placement takes place over a minimum of four weeks involving initial pupil observation, assisting the classroom teacher, and preparation for and classroom teaching of all subjects. Students are also required to complete a placement in a special education setting as well as language training outside term time in the Gaeltacht as an integral part of the degree programme.

The course meets the professional requirements of regulation two (primary) of the Teaching Council Regulations 2009. Under circular 40/2010 of the Department of Education and Skills, graduates of the course are eligible for appointment to recognised primary schools.

4. **Admission:** Applicants must fulfil specific requirements set by the Department of Education and Skills. There follows a selection procedure of eligible applicants which involves a general interview and an oral Irish interview. Further information about the course can be obtained directly from the Marino Institute of Education.

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**Creative Thinking, Innovation and Entrepreneurship (P.Grad.Cert.)**

1. **Introduction:** This Postgraduate Certificate in Creative Thinking, Innovation and Entrepreneurship aims to help students access their innate ability for independent creative thinking and innovation and to assist them in discovering the potential for the development of new ideas latent in their thesis research in a multi-disciplinary team environment. The modules are designed to address the main issues and problems that entrepreneurs and creative thinkers face in recognising, developing and assessing innovative opportunities for commercial, cultural or social benefit. The modules are structured in such a way as to encourage action, participation, discussion, analysis and reflection.

2. **Admission Requirements:** Entry requires a NFQ Level 8 qualification. Other applicants may be considered in exceptional circumstances based on workplace experience.

3. **Duration:** The Postgraduate Certificate carried 30 ECTS credits and can be completed over a period of one year (full time) to two years (part time).

4. **Structure:** The course is comprised of the following modules: Creative Thinking and Innovation (10 credits), Opportunity Generation and Recognition module (5 credits), Planning Your New Venture (5 credits), and Creative Capital: Financing Your New Venture (5 Credits), Protecting and Exploiting Your Intellectual Property (5 Credits), Healthcare Innovation (5 Credits), and Digital Effects (5 Credits) which may be taken in any order.
Candidates must achieve 30 ECTS to be eligible for the PG Cert in Creative Thinking, Innovation and Entrepreneurship.

5. **Assessment:** There will be a combination of formative and summative assessment models that will focus on knowledge, reflection and application of skills and competencies. The module focuses on continuous and process assessment summarised in the overview below.

6. **Course Director:** Dr. Daniel Rogers

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### Innovation and Entrepreneurship (P.Grad.Cert.)

1. **Introduction:** This Postgraduate Certificate in Innovation and Entrepreneurship is jointly-awarded by Trinity College Dublin (TCD), University College Dublin (UCD) and Queen’s University Belfast (QUB) and is available both as an integral part of the doctoral degree and as a stand-alone course for registered Ph.D. students in the partner institutions. The aim of the course is to help Ph.D. students access their innate ability for independent creative thinking and innovation in its broadest sense and to assist them in discovering the potential for the development of their new ideas latent in their thesis research in a multi-disciplinary team environment. The modules are designed to address the main issues and problems that entrepreneurs and creative thinkers face in recognising, developing and assessing innovative opportunities for commercial, cultural or social benefit. The modules are structured in such a way as to encourage action, participation, discussion, analysis and reflection.

2. **Admission Requirements:** Applications for admission are accepted from Ph.D. students of TCD, UCD and QUB. Students are required to adhere to the relevant guidelines of the university at which they are registered. In the event that the number of applicants exceeds the number of places available for a particular module, four criteria will apply: balance of numbers between the two universities; balance between disciplines; requirement in relation to Ph.D. studies; date of receipt of application. Applicants not admitted to a particular module will be placed on a waiting list for that module and, if not admitted, on a priority list for the next iteration of the module. Students who complete satisfactorily the two core modules will be eligible for admission to the specialised modules.

3. **Duration:** This is a part-time course. Credit for modules may be accumulated towards the Postgraduate Certificate (30 ECTS credits) over a period of between one and four years.
4. **Structure:** The course design incorporates two groups of modules – core and specialised. The core modules are pre-requisites for the specialised modules and comprise: Creative Thinking and Innovation module (10 credits) and Opportunity Generation and Recognition module (5 credits). After completing the core modules, students may engage in specialised modules, from which students aiming for the award of the Postgraduate Certificate must complete three of four (5 credits each). The specialised modules are: Protecting and Exploiting Your Intellectual Property; Planning Your New Venture; Creative Capital; Leadership Development. Here specific content includes issues surrounding intellectual property, organising for innovation, start-up resourcing (including funding) and leading a team within an organisation.

5. **Assessment:** All modules are graded as pass/fail. Assessment is based on participation, submission of a group project report, poster and presentation and an individual reflective report. If a student fails a module, he/she may repeat.

6. **Course Co-Directors:** Dr Barry McMahon (TCD)
   
   Professor Suzi Jarvis (UCD)
List of Higher Degree Titles

Degrees by research and thesis

Doctor in Medicine (M.D.)
Doctor in Philosophy (Ph.D.)
Master in Dental Science (M.Dent.Sc.)
Master in Engineering (Research) (M.A.I. (Ind.))
Master in Letters (M.Litt.)
Master in Obstetrics (M.A.O.)
Master in Science (Research) (M.Sc. (Ind.))
Master in Surgery (M.Ch.)

Doctoral degrees by course work, examination, professional practice, research and thesis

Doctor in Clinical Psychology (D.Clin.Psych.)
Doctor in Counselling Psychology (D.Couns.Psych.)
Doctor in Dental Surgery (D.Ch.Dent.)
Doctor in Education (D.Ed.)
Doctor in Music Performance (D.Mus.Perf.)
Higher degree by written examination and dissertation, no course work

 Bachelor in Divinity (B.D.)

Master’s degrees by course work, with examination and dissertation

 Master in Business Administration (M.B.A.)
 Master in Education (M.Ed.)
 Master in Education Studies (M.E.S.)
 Master in Fine Arts (M.F.A.)
 Master in Laws (LL.M.)
 Master in Medicine (M.M.)
 Master in Pharmacy (M.Pharm.)
 Master in Philosophy (M.Phil.) in
    Applied linguistics
    Art history
    Children's literature
    Chinese studies
    Classics
    Comparative literature
    Conflict resolution and reconciliation
    Creative and cultural entrepreneurship
    Creative writing
    Digital humanities and culture
    Early Irish
    Early modern history
English language teaching
European studies
Film studies – theory, history, practice
Gender and women’s studies
Intercultural theology and interreligious studies
International peace studies
Irish writing
Linguistics
 Literary translation
Literatures of the Americas
Medieval history
Medieval language, literature and culture
Modern Irish history
Music composition
Music and media technologies
Popular literature
Psychoanalytic studies
Public history and cultural heritage
Race, ethnicity, conflict
Social work research
Speech and language processing
Textual and visual studies
Theatre and performance

Master in Science (Studies) (M.Sc. (St.)) in
Advanced radiation therapy practice
Advanced radiotherapy practice
Alcohol and drug interventions
Applied behaviour analysis
Applied psychology
Applied social research
Applied social studies
Biodiversity and conservation
Biological psychiatry
Biomedical sciences (intercalated)
Business and management
Cancer care
Cardiology
Cardiovascular rehabilitation and prevention
Child protection and welfare
Clinical chemistry
Clinical health sciences education
Clinical speech and language studies
Clinical supervision
Cognitive psychotherapy
Community pharmacy
Computer science (interactive entertainment technology)
Computer science (mobile and ubiquitous computing)
Computer science (networks and distributed systems)
Dementia
Disability studies
Drug and alcohol policy
Economic policy studies
Engineering
   Bioengineering
   Civil engineering
   Electronic engineering
Engineering (by module)
Integrated systems design
Mechanical engineering (Erasmus Mundus)
Environment and development
Environmental sciences
Exercise physiology
Finance
Gerontological nursing
Global health
Health informatics
Health services management
Healthcare infection management
High performance computing
Hospital pharmacy
Immunology
Interactive digital media
International management
International politics
Management of information systems
Managing Risk & System Change
Medical imaging
Mental health
Mental health (child, adolescent and family)
Mental health (psychosocial interventions)
Midwifery
Molecular medicine
Molecular pathology
Neuroscience
Nursing
Nursing – advanced nursing practice
Nursing – child health and wellbeing
Nursing specialist
Occupational therapy
Palliative care
Pharmaceutical manufacturing technology
Pharmaceutical medicine
Pharmaceutical sciences
Pharmaceutical technology
Physical sciences in medicine
Politics and public policy
Psychoanalytic psychotherapy
Psychology (applied behaviour analysis)
Psychology (conversion course)
Respiratory physiotherapy
Sports and exercise medicine
Technology and learning
Translational oncology

Master in Science (M.Sc.) in
Development practice (conducted jointly with University College Dublin)

Master in Science (Economics) (M.Sc. (Econ.))

Master in Science (Management) (M.Sc. (Mgmt)) in
Business administration
International business
Management practice
Organisation behaviour
Strategic management
Master in Social Work (M.S.W.)
Master in Theological Studies (M.Th.)

Professional Master course

Education (Post Primary)

Postgraduate diploma courses

Advanced radiation therapy practice
Applied behaviour analysis
Applied social studies
Child protection and welfare
Clinical dental technology
Clinical dentistry
Clinical speech and language studies (dysphagia)
Cognitive psychotherapy
Conflict and dispute resolution studies
Conscious sedation in dentistry
Diplomas in the Graduate School of Professional Engineering Studies
  Applied building repair and conservation
  Computers for engineers
  Construction law and contract administration
  Environmental engineering
  Fire safety practice (buildings and other structures)
  Health and safety in construction
  Project management
Specialised technology
Sustainable energy
Gynaecology and obstetrics
Management
Molecular medicine
Old Irish
Oncological nursing (conducted jointly with St Luke’s Hospital)
Pharmaceutical medicine
Special care dentistry

Higher diploma courses

Children’s nursing (conducted jointly with Tallaght Hospital)
Midwifery (in conjunction with the Rotunda Hospital and the Coombe Women and Infants’ Hospital)
Psychology
Psychology (Conversion)

Postgraduate certificate courses

Advanced Radiation Therapy Practice
Clinical Exercise
Creative Thinking, Innovation and Entrepreneurship
Dementia
Education (21st Century STEM/CS Teaching and Learning)
Innovation and Entrepreneurship
Implementation Science
Specialist Practice
The regulations for higher degrees (with the exception of Master in Arts (M.A.), Master in Computer Science (M.C.S.) and Master in Engineering (Studies) (M.A.I. (St.)), are administered by the Dean of Graduate Studies who acts in conjunction with the Graduate Studies Committee, the Deans of Faculties, the Heads of School, and committees of various professional schools.

**Other certificate courses**

Nursing (nurse/midwife prescribing)

**Validated postgraduate courses**

- Doctorate in Music Performance (offered through the Royal Irish Academy of Music)
- Master in Education Studies (Intercultural Education) (offered through the Marino Institute of Education)
- Master in Education Studies (Early Childhood Education) (offered through the Marino Institute of Education)
- Master in Music Performance (offered through the Royal Irish Academy of Music)
- Higher Diploma in Education (Primary Teaching) (offered through the Marino Institute of Education)
- Postgraduate Diploma in Learning Support and Special Educational Needs (offered through the Church of Ireland College of Education)
- Professional Diploma in Education (Further Education) (offered through the Marino Institute of Education)
- Professional Master of Education (Primary Teaching)

The regulations for higher degrees (with the exception of Master in Arts (M.A.), Master in Computer Science (M.C.S.) and Master in Engineering (Studies) (M.A.I. (St.)), are administered by the Dean of Graduate Studies who acts in conjunction with the Graduate Studies Committee, the Deans of Faculties, the Heads of School, and committees of various professional schools.

**Degrees by publication**

- Doctor in Divinity (D.D.)
- Doctor in Laws (LL.D.)
Doctor in Letters (Litt.D.)
Doctor in Music (Mus.D.)
Doctor in Science (Sc.D.)
<table>
<thead>
<tr>
<th>English Title</th>
<th>Degree Abbreviation</th>
<th>Latin Title</th>
<th>Academic Hood</th>
<th>Academic Gown</th>
</tr>
</thead>
<tbody>
<tr>
<td>Doctor in Music Performance</td>
<td>D. Mus. Perf</td>
<td>Doctor in Exsecutione Musica</td>
<td>White rose, lined with pale blue, edged rose pink</td>
<td>White rose, edged pale blue</td>
</tr>
<tr>
<td>Professional Doctorate in Counselling Psychology</td>
<td>D.Couns.Psych.</td>
<td>Doctor in Psychologia Consiliaire</td>
<td>Scarlet cloth lined with light green and edged with white</td>
<td>Scarlet cloth faced with white silk and edged with light green</td>
</tr>
<tr>
<td>Professional Doctor in Dental Surgery</td>
<td>D.Ch.Dent.</td>
<td>Doctor Negotialis in Chirurgia Dentaria</td>
<td>Scarlet cloth, lined with pale blue, edged with myrtle green</td>
<td>Scarlet cloth, faced with pale blue silk</td>
</tr>
<tr>
<td>Doctor in Education</td>
<td>D.Ed.</td>
<td>Doctor in Educatione</td>
<td>Pale blue, lined with rose, edged with dark blue</td>
<td>Blue cloth, faced with rose silk</td>
</tr>
<tr>
<td>Doctor in Philosophy</td>
<td>Ph.D.</td>
<td>Doctor in Philosophia</td>
<td>Scarlet cloth, lined with yellow</td>
<td>Scarlet cloth, faced with yellow silk</td>
</tr>
<tr>
<td>Doctor in Music</td>
<td>Mus.D.</td>
<td>Doctor in Musica</td>
<td>White flowered silk, lined with rose satin</td>
<td>White flowered silk, faced with rose satin</td>
</tr>
<tr>
<td>Doctor in Science</td>
<td>Sc.D.</td>
<td>Doctor in Scientiis</td>
<td>Scarlet cloth, lined with myrtle green</td>
<td>Scarlet cloth, faced with myrtle green silk</td>
</tr>
<tr>
<td>Doctor in Letters</td>
<td>Litt.D.</td>
<td>Doctor in Litteris</td>
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<tr>
<td>Doctor in Medicine</td>
<td>M.D.</td>
<td>Doctor in Medicina</td>
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<tr>
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<td>LL.D.</td>
<td>Doctor in Utroque Jure</td>
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</tr>
<tr>
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<td>D.D.</td>
<td>Doctor in Sancta Theologia</td>
<td>Scarlet cloth, lined with black</td>
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</tr>
<tr>
<td>English Title</td>
<td>Degree Abbreviation</td>
<td>Latin Title</td>
<td>Academic Hood</td>
<td>Academic Gown</td>
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</tr>
<tr>
<td>Master in Music Performance</td>
<td>M. Mus. Perf</td>
<td>Magister in Executio Musica</td>
<td>White, lined rose pink, edged pale blue</td>
<td>Black cloth, silk or poplin</td>
</tr>
<tr>
<td>Master in Education Studies</td>
<td>M.E.S.</td>
<td>Magister in Studii Educationis</td>
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</tr>
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<td>Master in Science (joint degree programme with UCD)</td>
<td>M.Sc.</td>
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</tr>
<tr>
<td>Master in Medicine</td>
<td>M.M.</td>
<td>Magister in Medicina</td>
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</tr>
<tr>
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<td>M.F.A.</td>
<td>Magister in Arte Scenaica</td>
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</tr>
<tr>
<td>Master in Computer Science</td>
<td>M.C.S.</td>
<td>Magister in Scientii Computeris</td>
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</tr>
<tr>
<td>Master in Engineering (Studies)</td>
<td>M.A.I. (St.)</td>
<td>Magister in Arte Ingenia (Studia)</td>
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</tr>
<tr>
<td>Master in Engineering (Research)</td>
<td>M.A.I. (Ind.)</td>
<td>Magister in Arte Ingenia (Indagatio)</td>
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</tr>
<tr>
<td>Master in Theology</td>
<td>M.Th.</td>
<td>Magister in Theologia</td>
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</tr>
<tr>
<td>Master in Social Work</td>
<td>M.S.W.</td>
<td>Magister in Opera Sociali</td>
<td>Black, lined with gold, edged with blue</td>
<td>Black cloth, silk or poplin</td>
</tr>
<tr>
<td>Master in Dental Surgery</td>
<td>M.Dent.Ch.</td>
<td>Magister in Dentaria Chirurgia</td>
<td>Myrtle green, lined with pale blue, edged with crimson</td>
<td>Black cloth, silk or poplin</td>
</tr>
<tr>
<td>Master in Laws</td>
<td>LL.M.</td>
<td>Magister in Uteroque Jure</td>
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<td>Black cloth, silk or poplin</td>
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<tr>
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<td>Magister Studiorum</td>
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<td>Black cloth, silk or poplin</td>
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<tr>
<td>Master in Philosophy (Peace Studies)</td>
<td>M.Phil. (Peace Studies)</td>
<td>Magister in Philosophia in Studii ad pacem Pertinentibus</td>
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<td>Black cloth, silk or poplin</td>
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<tr>
<td>English Title</td>
<td>Degree Abbreviation</td>
<td>Latin Title</td>
<td>Academic Hood</td>
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<tr>
<td>Master in Philosophy (Ecumenics)</td>
<td>M.Phil. (Ecum.)</td>
<td>Magister in Philosophia in Studiiis Ecumenicis</td>
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<tr>
<td>Master in Philosophy</td>
<td>M.Phil.</td>
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<tr>
<td>Master in Science in Management</td>
<td>M.Sc. (Mgmt)</td>
<td>Magister in Scientii una cum Procuratone</td>
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<tr>
<td>Master in Economics</td>
<td>M.Sc. (Econ.)</td>
<td>Magister in Scientii Oeconomicis</td>
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<td>Black cloth, silk or poplin</td>
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<tr>
<td>Master in Education</td>
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<td>Magister in Educationiae</td>
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<td>Black cloth, silk or poplin</td>
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<tr>
<td>Master in Business Administration</td>
<td>M.B.A.</td>
<td>Magister in Studiiis Negotialibus</td>
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<td>Black cloth, silk or poplin</td>
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<tr>
<td>Master in Administrative Studies</td>
<td>M.S.A.</td>
<td>Magister in Studiiis Administralibus</td>
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<td>Black cloth, silk or poplin</td>
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<td>Master in Commerce</td>
<td>M.Comm.</td>
<td>Magister in Commercio</td>
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<td>Black cloth, silk or poplin</td>
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<tr>
<td>Master in Veterinary medicine</td>
<td>M.V.M.</td>
<td>Magister in Medicina Veterinaria</td>
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<td>Black cloth, silk or poplin</td>
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<tr>
<td>Master in Letters</td>
<td>M.Litt.</td>
<td>Magister in Litteriae</td>
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<tr>
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<td>M.Sc. (St.)</td>
<td>Magister in Scientii (Studia)</td>
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<tr>
<td>Master in Science (Research)</td>
<td>M.Sc. (Ind.)</td>
<td>Magister in Scientii (Indagatio)</td>
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<td>Black cloth, silk or poplin</td>
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<tr>
<td>Master in Science</td>
<td>M.Sc.</td>
<td>Magister in Scientii</td>
<td>White, lined with myrtle green</td>
<td>Black cloth, silk or poplin</td>
</tr>
<tr>
<td>Master in Forestry</td>
<td>Agr. (Forest.) M.</td>
<td>Magister in Agri (Forestarii) Cultura</td>
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<td>Black cloth, silk or poplin</td>
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<tr>
<td>Master in Agriculture</td>
<td>Agr. M.</td>
<td>Magister in Agri Cultura</td>
<td>White, lined with brown</td>
<td>Black cloth, silk or poplin</td>
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<tr>
<td>English Title</td>
<td>Degree Abbreviation</td>
<td>Latin Title</td>
<td>Academic Hood</td>
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<tr>
<td>Master in Dental Science</td>
<td>M.Dent.Sc.</td>
<td>Magister in Dentaria Scientia</td>
<td>Myrtle green, lined with pale blue, edged with crimson</td>
<td>Black cloth, silk or poplin</td>
</tr>
<tr>
<td>Master in Engineering</td>
<td>M.A.I.</td>
<td>Magister in Arte Ingeniaria</td>
<td>White, lined with green</td>
<td>Black cloth, silk or poplin</td>
</tr>
<tr>
<td>Master in Obstetrics</td>
<td>M.A.O.</td>
<td>Magister in Arte Obstetricia</td>
<td>Black, lined with purple</td>
<td>Black cloth, silk or poplin</td>
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<tr>
<td>Master in Surgery</td>
<td>M.Ch.</td>
<td>Magister in Chirurgia</td>
<td>Crimson, lined with white, edged with blue</td>
<td>Black cloth, silk or poplin</td>
</tr>
<tr>
<td>Master in Arts</td>
<td>M.A.</td>
<td>Magister in Artibus</td>
<td>Black, lined with blue</td>
<td>Black cloth, silk or poplin</td>
</tr>
<tr>
<td>Bachelor in Divinity</td>
<td>B.D.</td>
<td>Baccalaureus in Sancta Theologia</td>
<td>Black, lined with fine black silk</td>
<td>Black cloth, silk or poplin</td>
</tr>
</tbody>
</table>
Postgraduate awards and travel funds

1. The University offers a number of postgraduate awards open for application to students intending to register (or registered) for full-time higher research degree on the Ph.D. register. Applications are assessed competitively.

2. Trinity College Postgraduate Research Studentships (code 1252) are open to applicants from all countries. For both EU and non-EU fee paying students they provide an annual maintenance contribution of €6,500 and a full fee waiver. The scheme is open to new entrants as well as continuing students on the full-time Ph.D. register.

Ussher awards are similarly open to applicants from all countries. They are few in number, necessarily very competitive and provide a significant annual maintenance award (currently €13,000) and cover fees.

As the number of studentships is limited, applicants are strongly advised to apply for all other awards and grants open to them. Candidates are expected to apply for the renewal of any local authority scholarship they may have held as undergraduates (Research Scholarships awarded by the Ministry for Education for Northern Ireland are tenable in the University of Dublin.)

Individual Schools may have specific funds at their disposal and candidates, when applying, should enquire as to the availability of such funds.

3. Applicants whose total personal income (including stipends as specified above) is in excess of €18,000 will not be considered for Trinity College research awards.

4. There are also a number of specific Ussher Fellowships and miscellaneous funds and scholarships of limited application – see below for further information.
Emergency financial assistance scheme

1. Application must be made on a form available from the Graduate Studies Office. Only cases of extreme urgency are considered on a case-by-case basis.

Only students in, or about to enter their second or subsequent years on the register will be eligible. Only in very exceptional circumstances will an allocation of funding be repeated to the same student in a further year.

2. Other financial assistance: Merle Hanna award in Chemistry: This award was founded by a bequest from Miss Merle O. Hanna to provide an award for the benefit of a student or students, either postgraduate or undergraduate, in the Department of Chemistry who may have a special need, which need shall not be based on academic ability. The award is made on the nomination of the Head of the Department of Chemistry.
Miscellaneous research travel funds

Specific applications are invited as stated under each entry

1) **ARNOULD MEMORIAL PRIZE**: This prize was founded in 1981 in memory of Emile J. Arnould, Professor of French from 1945 to 1975, by a gift from Evelyn, his widow, and Nicole, his daughter (supplemented by donations from former students, colleagues and friends). It is awarded annually to enable a postgraduate student in French at the College to travel to France for research purposes. Recommendation for the award, judged on the basis of scholarly needs and excellence, but with preference given for studies in Old French, the history of the French language or related areas, is made by the Professor of French in consultation with the Supervisors concerned and departmental colleagues. Applications should be made to him/her in writing on or before the last day of Hilary teaching term. The prize which may be shared or not awarded, as considered most appropriate, is at present valued at €900.

2) **VALDA BOYDELL GRADUATE PRIZE**: This prize was founded in 2004 by a bequest from the estate of Miss Valda Boydell. It is awarded to a graduate of the University ‘for study of any approved branch of the Old Testament including study in any Near Eastern country’. The prize will be awarded on the basis of the merit of a research proposal in Old Testament, for the purpose of travel (including conference attendance) in connection with such research, and for study in a Near Easter country. In the case of two or more equally deserving proposals the prize may be divided. Submissions from postgraduates whose names are on the College books should be made to the School of Religions and Theology by 1st March. Value: €500.

3) **CANADIAN STUDIES TRAVEL SCHOLARSHIP**: This scholarship was funded by a gift from Northern Telecom Limited in 1983. Awards are made annually for one month’s study/research in Canada on a Canadian topic. It is open to postgraduates of Trinity College or, should no award be made at that level, to undergraduates. Applicants should submit a curriculum vitae, study proposal and the name of one referee familiar with their work, to the Dean of Graduate Studies by 1st April of the year in which they wish to travel. The final selection will be by interview.

4) **THE CHAUCER SCHOLARSHIP**: This annual award was established by John Scattergood, Professor of Medieval and Renaissance Literature in the School of English 1980-2006. It is designed primarily for postgraduate students of English, but is open to students from other schools also. Its aim is to facilitate research on Geoffrey Chaucer or his contemporaries and may be used for the acquisition of materials, visits to libraries and archives and attendance at relevant conferences. Applicants will be expected to give a
detailed written statement of the object of their researches and successful candidates will be required to submit, on the completion of their researches, a brief account of their use of the scholarship. No student may avail of this scholarship more than once. Value 500 euro. Applications should be made before 1 February for use of the scholarship within the calendar year. They will be assessed by the Head of the School of English and two people teaching in the period before 1450.

5) **DR A.J. LEVENTHAL GRADUATE TRAVELLING SCHOLARSHIP IN MODERN LANGUAGES OR LITERATURE:** The A. J. Leventhal scholarship, funded by private donation and by the T.C.D. Trust, has been created to enable graduates of Irish universities who are pursuing postgraduate studies in modern languages or modern literature in Trinity College to further their studies in Europe. One award of approximately €2,285 will be made in each academic year. Applications are invited from registered postgraduate students in the Arts Faculties who are pursuing research in modern languages or modern literature. Application forms will be available from the Dean of Arts and Humanities in February each year. The closing date for receipt of applications will be 1st April. The final selection will be made by interview. The successful applicant will have to submit a detailed report of the studies undertaken during the period abroad on the scholarship.

6) **ESTHER J. LUKER AND MAUDE COBBE BURSARY:** This bursary was endowed by Miss Maude Cobbe in 1970 in memory of a friendship of nearly sixty-five years. The fund is used for graduate exchanges between Girton College, Cambridge and Trinity College, Dublin. Undergraduates may be considered if suitable graduates do not apply. Nominations to the bursary have to be agreed between the Council of Girton College and the Board of Trinity College. Application should be made to the Dean of Graduate Studies not later than 1st March each year.

7) **LELAND LYONS TRAVELLING SCHOLARSHIP IN MODERN HISTORY:** This award was founded in 1981 by a gift from the retiring Provost, Dr Francis Stewart Leland Lyons. It is awarded biennially, at the discretion of the Professor of Modern History to a graduate student who needs to undertake travel in connection with his/her research in some aspect of modern history. It is anticipated that the award will be supplemented by a grant from the Graduate Studies Research Travel Fund. With this supplementation the current value of the scholarship is expected to be approximately €444. Application should be made to the Professor of Modern History before 31st March.

8) **T. W. MOODY MEMORIAL FUND:** Established in 1985 by subscription in memory of Theodore William Moody, Erasmus Smith’s Professor of Modern History (1939-1977), the Fund is intended to assist graduate students to travel to libraries and archives, to enable them to obtain inaccessible material in copied form and to help them in other ways directly connected with their research. It is open to graduates of an Irish university, of not more than seven years’ standing, who are engaged in research leading to a higher degree in history.
The Fund is administered by the Erasmus Smith’s Professor of Modern History (to whom application should be made before 1st May) and representatives from Trinity College Dublin, The National University of Ireland, and a Northern Irish University.

9) **OWEN SHEEHY SKEFFINGTON MEMORIAL AWARDS:** This fund was established in 1973 from funds contributed in memory of Dr Owen Sheehy Skeffington. The annual award takes the form in alternate years of a travelling scholarship (2010) and a maintenance grant (2011) of approximately €2,000. The travelling scholarship is available to any registered student at an institution of higher education in this country. The award is for travel to France and applications are sought by public advertisement. The selection will be made on the recommendation of a committee. For details of the maintenance grant see financial assistance.

10) **ROYAL CITY OF DUBLIN HOSPITAL POSTGRADUATE TRAVELLING PRIZE:** This prize was established in 1992 at the request of the Board of the Royal City of Dublin Hospital, Baggot Street, which donated a capital sum comprising bequests to the hospital associated with prizes commemorating Dr Alfred Parsons, Dr William Wheeler and Dr John Briscoe. The prize is open to all medical graduates of the College of not more than five years’ standing and who are seeking financial assistance towards the cost of a short period of work, study or research (including the cost of books) in a medical unit abroad. The prize is awarded annually on the recommendation of a committee appointed from time to time by the Board of Trinity College, which, in appointing the members of the committee will keep in mind the desire of the donors that at least one member of the committee shall be a medical member of the Board of the Royal City of Dublin Hospital, Baggot Street. Value, €2,222.

11) **JOHN SCATTERGOOD TRAVELLING SCHOLARSHIP:** This annual award was established by John Scattergood, Professor of Medieval and Renaissance Literature 1980-2006. It is designed to enable postgraduate students of English specialising in the period before 1550 to travel to libraries and archives in Europe to advance their researches. Preference will be given to those needing to access primary materials – manuscripts and early printed books. Applicants will be expected to give a detailed written statement of the object of their researches and successful candidates will be required to submit, on their return, a brief account of the outcome of their visits. No Student may avail of this scholarship more than once. Value 1000 euro, but the scholarship may be divided. Applications should be made before 1 February for use of the scholarship within the calendar year. This will be assessed by the Head of the School of English and two people teaching in the period before 1550.

12) **TAYLOR BEQUEST IN MUSIC:** The bequest was made in 1978 by Eileen Taylor to provide for an Entrance Exhibition (see Calendar Part 1, page U4). The surplus of the fund shall be applied to postgraduate and research work in music at the discretion of the Professor of Music (or Head of Department) in consultation with the School of Music.
Committee. Applications to the fund should be made directly to the Professor of Music or Head of Department.

13) **DAVID A. WEBB MEMORIAL TRAVEL SCHOLARSHIP**: The Trustees of the D.A. Webb Scholarship can make available up to 50% of the net interest received under Section 8, Paragraph 8.20 above to support travel, accommodation and subsistence expenses for students undertaking field study of the Irish Flora in its European context. Under exceptional circumstances, awards may be made to support attendance at conferences or other symposia. Written applications of no more than two pages in length, are to be made to the Curator of the Herbarium, acting for the Head of the Department of Botany before 1st March during the year in which funding is sought.

14) **THE GLYNN BURSARY**: This bursary was established in 2013 as a bequest from Dr Tom Glynn to support postgraduate students in their latter years of study. It is awarded to support student participation in international research conferences and up to 5 awards will be made per annum. In exceptional circumstances, the fund will be used to assist students who are experiencing financial hardship. Applications are made to the Dean of Graduate Studies. Value, up to €1,000 per student.
Postgraduate scholarships of limited application

Specific applications are invited as stated under each entry.

The scholarships listed below are awarded by the respective departments as listed.

1) PETER BECKETT POSTGRADUATE RESEARCH AWARD
2) JOHN A. BOLAND MEMORIAL SCHOLARSHIP
3) JULIAN BOLDY BURSARY
4) MAUREEN DE BURGH MEMORIAL PRIZE IN MARINE BIOLOGY
5) ALLEN BURKE MEMORIAL PRIZE
6) BUSINESS ADMINISTRATIVE BURSARY
7) CLUFF MEMORIAL STUDENTSHIP
8) CURTIS MEMORIAL PRIZE
9) CHRISTOPHER DONOVAN TRANSLATION PRIZE
10) ELRINGTON SCHOLARSHIP
11) FERGUSON MEMORIAL PRIZE
12) FRANZ FASENFELD SCHOLARSHIP
13) HENRY FLOOD RESEARCH SCHOLARSHIP
14) ROBERT FRIEL PRIZE IN ENGINEERING STRUCTURES
15) JOHN GOOD BEQUEST
16) TERENCE GORMAN POSTGRADUATE PRIZE
17) IRENE GREENE MEMORIAL RESEARCH FUND
18) HINCKS MEMORIAL PRIZE
19) HOME HEWSON SCHOLARSHIP
20) HENRY HUTCHINSON STEWART LITERARY SCHOLARSHIPS
21) THE IRISH SOCIETY’S SCHOLARSHIP
22) THE DAVE JOHNSTON MEMORIAL FUND
Details of the funds referred to above are given below.

1) **PETER BECKETT POSTGRADUATE RESEARCH AWARD:** The award is made annually in Michaelmas term on the recommendation of a committee comprising the Dean of the Faculty of Health Sciences, the Professor of Psychiatry, the Clinical Professor of Psychiatry and the Regius Professor of Physic, to the candidate who, in the opinion of the committee, has carried out the best research project in psychiatry during his/her postgraduate training. The research should normally have been carried out in Ireland. The award is open to all postgraduate trainees in psychiatry who have completed at least three
years of a formal training programme approved by the committee. Applications should reach
the Medical School Office not later than 31\textsuperscript{st} December and candidates should submit a full
written description of the completed research project which they wish to have considered.
Value, about €825.

2) **JOHN A. BOLAND MEMORIAL SCHOLARSHIP (LAW):** The John Boland
memorial prize was founded in 2007 by subscription in memory of John Boland (LL.B., M.A.,
Barrister-at-Law, 1954), former U.K. Public Trustee, who founded the UK Trust for TCD
(then called ‘The London Trust for TCD’), and who was a very loyal graduate serving Trinity
in many capacities. The Prize is awarded annually by the U.K. Trust for Trinity College
Dublin for a new incoming research postgraduate student in Law. Award to be decided on
the basis of merit in application. Value: Sterling £1,000 p.a.

3) **JULIAN BOLDY BURSARY:** This bursary was established in 1992 in memory of
Julian Boldy by his friends, John and George Kurkjian. The bursary is awarded annually to
help support a postgraduate student (or exceptionally an undergraduate) in Geology.
Applications should reach the Head of the Department of Geology by 1\textsuperscript{st} July. Value, about
€1,650 per annum.

4) **MAUREEN DE BURGH MEMORIAL PRIZE IN MARINE BIOLOGY:** This prize was
established in 1986 by subscription in memory of Dr Maureen de Burgh to promote research
in marine biology. It is awarded annually to a postgraduate or undergraduate student to
cover expenses related to research in marine biology at Trinity College, on the
recommendation of the Professor of Zoology and one other lecturer in the department.
Value, about €140.

5) **ALLEN BURKE MEMORIAL PRIZE:** This prize was founded in 2008 to honour the
memory of Allen Burke, a Psychology graduate of TCD, who was registered for a
postgraduate degree by research when he died in 1977. The prize was founded by Allen’s
family. It is awarded annually by decision of the Court of Examiners to the student who
submits the best dissertation for the postgraduate degree in Counselling Psychology. Value
€250.

6) **BUSINESS ADMINISTRATIVE BURSARY:** This bursary was founded in 1974 by
the Association of Business Graduates. It is awarded for the best thesis or dissertation which
must (a) be prepared in accordance with the requirements of the M.B.A. degree, and (b) be
of practical use to Irish businessmen/businesswomen. Further information can be obtained
from the Director of the Graduate Course in Administration. It is open to graduates of the
University of Dublin, the National University of Ireland, Dublin, and the National University of
Ireland, Galway, Trinity College, Dublin, University College, Dublin, and University College,
Galway. Value, €190.46.
7) **CLUFF MEMORIAL STUDENTSHIP:** This studentship was founded in 1987 in memory of James Stanton Cluff, Scholar 1858, with endowments provided by Mr W.V. Cluff. It is awarded as often as funds permit to a student registered or to be registered for a higher degree in the History School, or to a graduate of the History School registered or to be registered for a higher degree at another university. It is awarded for one year in the first instance, but may be renewed on evidence of satisfactory progress for a second year and in exceptional circumstances for a third year. Application should be made to the Professor of Modern History before 31st July. Value, about €2,285 a year.

8) **CURTIS MEMORIAL PRIZE** (suspended from 2004/05): This prize was founded in 1952 by subscription in memory of Edmund Curtis, Erasmus Smith’s Professor of Modern History 1914-39 and Lecky Professor of Modern History 1939-43. The money subscribed having been entrusted to the Royal Irish Academy, the Council of the Academy has decided to use the income to award an occasional prize of €126, or such sum as the Council may direct, for an essay on Irish history, based on original research, and/or work of original interpretation. The successful essay will be considered for publication in the Proceedings of the Royal Irish Academy. Candidates for the prize must be, or have been, graduates of a university, and must not be more than thirty years of age on 1st January of the year in which an award is to be made. Candidates over the age of thirty must have completed their primary degree within the previous seven years. The essay must be typewritten or printed, bound and not more than 10,000 words in length; it must also include a full bibliography. Submissions should be made to the Royal Irish Academy, 19 Dawson Street, Dublin 2.

9) **CHRISTOPHER DONOVAN TRANSLATION PRIZE:** This prize was established in 2009 to honour the memory of Christopher Donovan, a former student of the M.Phil. in Literary Translation. This prize was founded by his family and friends. The prize will be awarded annually, by decision of the Court of Examiners of the M.Phil. in Literary Translation, to the student who submits the best Portfolio of Translation provided that the mark exceeds 70%.

10) **ELRINGTON SCHOLARSHIP:** This scholarship was founded in 1837 by subscription in memory of Thomas Elrington, Provost 1811-20. It is awarded biennially by the Board on the recommendation of the Professors and full-time academic staff of the School of Religions and Theology as confirmed by the Graduate Studies Committee. It is awarded for the purposes of theological research. It is open to any candidate in theology and/or divinity and/or related academic disciplines. It is tenable for two years. Application should be made to the Professor of Theology no later than the end of Trinity term in the year 2010 and every second year. Value, about €3,174.
11) **FERGUSON MEMORIAL PRIZE:** This prize was founded in 1907 by subscription in memory of Sir Samuel and Lady Ferguson. It is awarded every third year. Work submitted for it may take the form of:

(a) an investigation of some aspect or feature of Irish linguistic development, or
(b) a study of Irish literary sources, or
(c) an edition of an important text including translation, commentary and linguistic analysis.

The prize is open to all undergraduates and to graduates of not more than seven years standing.

Exercises must reach the Senior Lecturer before 17th March in the year of the award. Value, about €1,524.

12) **FRANZ FASENFELD SCHOLARSHIP:** This scholarship was established in 1998 in memory of Franz Fasenfeld, a Junior Sophister MSISS student who died tragically in 1997. It will be used to support full-time research within the Department of Statistics for Graduates of the MSISS programme. It may be used to complement scholarships and grants from other sources and with such grants will provide fees for postgraduate study and maintenance up to a value of €9,523 p.a. It is awarded in the first instance for one year, but may be renewed, as funds permit for a second year for students reading for a Masters degree and for a third year for students reading for a Ph.D. The award is made on the basis of merit and as funds permit on the recommendation of the Professor of Statistics and the Director of Studies of the MSISS programme. At their discretion, and as funds permit, support may also be provided for attendance at academic meetings by holders of the award. The scholarship is suspended from the academic year 2006/07.

13) **HENRY FLOOD RESEARCH SCHOLARSHIP:** This research scholarship was founded in 1981 by a bequest in memory of Henry Flood MP. It is awarded annually by the Board of the College on the recommendation of the Professor of Irish as confirmed by the Graduate Studies Committee. It is awarded for the purpose of research in the area of Irish Folk and Language studies to a graduate on the books of the University who has shown sufficient merit. The scholarship is tenable for one year but may be renewed for a maximum of a further two years. Application should be made to the Professor of Irish not later than the end of Trinity term. Value: EU-fee + maintenance of about €8,000.

14) **ROBERT FRIEL PRIZE IN ENGINEERING STRUCTURES:** This prize was established in 1992 in memory of Robert Geoffrey Friel, who taught on the Masters course in Civil Engineering, by subscription of his colleagues and friends. It is awarded annually to the
student who achieves the highest marks in the examinations associated with the M.Sc. in Civil Engineering. Value, €63.

15) **JOHN GOOD BEQUEST:** In 1941 the College received a bequest from John Good. A prize is awarded to the student of the year in the M.B.A. course. A sum of money is available each year for the purchase of specialised books and equipment for the benefit of students in the School of Business.

16) **TERENCE GORMAN POSTGRADUATE PRIZE:** This prize was founded in 2006 by a bequest from Mrs Dorinda Gorman in memory of her husband, the distinguished economist W M (Terence) Gorman, a Trinity economics graduate of 1948. It is awarded annually on the recommendation of the Department of Economics to the student who performs at the highest level in the M.Sc. Economics course. Value, €500.

17) **IRENE GREENE MEMORIAL RESEARCH FUND:** This fund was established in 1975 by a gift of €2539 from the estate of Miss N. T. J. Greene. The purpose of the fund is to assist scientific research under the direction of the Professor of Biochemistry from time to time into the diagnosis and treatment of cancer. Value, €1,079.

18) **HINCKS MEMORIAL PRIZE:** This prize was founded in 1944 by a gift from J. H. Magee in memory of Edward Hincks, Fellow 1813-20, to encourage the study of the language, history, religion, literature, culture and ideas of the Hebrews in Old Testament times, and of Old Testament archaeology. The prize is awarded in two parts, one to an undergraduate of the Junior Sophister year and the other to a postgraduate student in the School of Hebrew, Biblical and Theological Studies. In each case the award is made for a dissertation within the areas designated. The subject chosen should be approved in advance, and the dissertation should be submitted not later than 1st October. In the event of two or more dissertations being judged to be of equal and sufficient merit, the prizes may be divided. Value; undergraduate prize €380; postgraduate prize €2,539.

19) **HOME HEWSON SCHOLARSHIP:** This scholarship is offered by a bequest in memory of Dr George Hewson (former Professor of Music) and Mabel Home (actress and singer) for the support of postgraduate studies in the School of Music, literature, theatre and visual arts. The award of this scholarship will be made by the Professor of Music, following consultation with the School of Music Committee and the Dean of Graduate Studies. The scholarship may be awarded up to a maximum of 3 years and its value will depend at any given time on the interest available from the capital sum. Value, about €2,539 per annum.
20) **DR HENRY HUTCHINSON STEWART LITERARY SCHOLARSHIPS**: These scholarships were founded in 1884 by a bequest from Henry Hutchinson Stewart. Two scholarships, value €507 and €380, are awarded annually to those students who have obtained the highest aggregate of marks in the two-subject moderatorship examinations and whose major subject was a modern language (English, French, German, Irish, Italian, Russian, Spanish and Portuguese). At least one scholarship is reserved for a student whose minor subject was also a modern language. If holders are engaged on full-time postgraduate study in the area of modern languages, the scholarships are increased to €4,444 and €3,174, and renewed at this level for a maximum of a further two years.

21) **THE IRISH SOCIETY'S SCHOLARSHIP**: This scholarship is offered annually by the Hon. the Irish Society for research work to be carried out under the direction of the Director of the Research Institute, Lambeg, Co. Antrim, and to be embodied in a thesis to be submitted for the degree of M.Sc. A graduate of the University is eligible for this scholarship provided that he/she satisfies the conditions prescribed for the M.Sc. degree and that he/she has received at least part of his/her education at one of the schools to which the society contributes financial assistance. Applications should reach the secretary of the Institute before 2nd August each year. Value, €152 a year for two years.

22) **THE DAVE JOHNSTON MEMORIAL FUND**: Established in 1998 in memory of Dave Johnston by his family and friends to support field based studies by undergraduate and postgraduate students in Geology. The income may be divided between more than one project in a year. The fund will be administered by the Professor of Geology, another member of the Department of Geology and a representative of the Alumni of the Department of Geology. Applications should reach the Professor of Geology by the last day of Hilary Term in the year which the grant will be held.

23) **GRACE LAWLESS LEE FUND**: Established in 1975 by Mr. J. D. Gwynn, in memory of Grace Lawless Lee, to promote and facilitate scholarship in history, primarily by assisting work by members of staff or, if sufficient funds are available, at graduate level. Students registered for courses based primarily on coursework are not eligible to apply to this fund. The income may be divided between more than one project in a year, or may be accumulated for a larger project, or in special cases may be used for grants in aid of travelling expenses and of publication. The fund will be administered by the Provost, the Professors of Modern and Medieval History, and a representative from each department. Application should reach the Provost by 1st April.

24) **W. H. A. MACINTOSH PRIZE**: This prize was founded by a legacy from Mr W. H. A. Macintosh, former chief technician in the Department of Chemistry. It is awarded annually to the student who is undertaking research in the Department of Chemistry, leading to a Ph.D. in inorganic, organic or physical chemistry, and who has obtained the highest mark in the moderatorship examination of that year. Value, €635.
25) **MICROSOFT IRELAND PRIZE:** This award was established in 2003. It is awarded by decision of the Court of Examiners to the student who submits the best dissertation for the M.Sc. in Technology and Learning. The award will continue to be sponsored by Microsoft Ireland until the academic year 2011–2012. The value of the award is €500. In the event of two or more dissertations being judged of equal and sufficient merit, the award may be divided.

26) **FRANCES E. MORAN RESEARCH STUDENTSHIP:** This studentship is offered by the Trinity Trust for research in any area of Irish law. The grant will normally be of one year’s duration. The successful candidate will be required to register for the degree of Ph.D. or M.Litt. The successful candidate may be required to assist with tutorial work in the Law School for four hours per week. Applications should be addressed to the Director of Teaching and Learning (Postgraduate). Value, Ph.D. or M.Litt. fees for the year will be paid, together with a tax-free stipend of €1,841 – €2,222.

27) **R. A. Q. O’MEARA RESEARCH FUND:** This fund was established in 1977 by a gift from the Marie Curie Memorial Foundation to establish a research fund in memory of the late Robert Allen Quain O’Meara, Professor of Experimental Medicine 1942-74. The income from the fund will be made available to support research in the field of cancer and allied disorders. Applications will be invited, by advertisement, biennially. Awards of research grants will be made by a committee consisting of the Dean of the Faculty of Health Sciences, the Marie Curie Foundation Professor of Clinical Oncology, the Regius Professor of Physic and the Professor of Histopathology and Morbid Anatomy. Value, €10,158.

28) **OPERATIONS RESEARCH SOCIETY OF IRELAND AWARD:** This award was founded in 1973 by the Operations Research Society of Ireland. A presentation may be made annually to the graduate student judged on the basis of course and project work to exhibit the greatest aptitude and proficiency in operations research. Students on the graduate programmes of the School of Systems and Data Studies will be considered for the award.

29) **CLAUDE AND VINCENETTE PICHois RESEARCH AWARD:** Deriving from donations made by Madame Pichois and the late Professor Claude Pichois, a Research Award is made triennially to a candidate holding a first-class or II.1 honours Degree in French (or equivalent) and having a research project within the area of nineteenth and/or twentieth-century French Literature. Award holders must be new entrants to the University of Dublin research register, must intend to register for a Ph.D. degree in the University of Dublin and must engage in full-time research. Award holders may engage in teaching-related activities, as designated by their Director of Teaching and Learning (Postgraduate), up to a maximum of four hours per week. Their Award will be renewed annually, normally to
The Award covers EU fees and currently provides maintenance of €16,000 per annum, with payments made according to the method used for Ussher Awards. Should there be deemed to be no suitably qualified candidate, the Award, in the year in question, would accrue to the capital endowment of the Claude and Vincenette Pichois Memorial Fund. Applications for this Award must be made according to standard College online application procedures by 1st May.

Candidates for the Award will be selected on academic merit by the Claude and Vincenette Pichois Research Award Committee consisting of the Dean of the Faculty of Arts, Humanities and Social Sciences (as chairperson), the Head of the Discipline of French, and the intended supervisor. This Committee will pass on its recommendations for approval by the Head of the School of Languages, Literatures and Cultural Studies, for onward transmission, normally by 7 June, to the Dean of Graduate Studies, and for notification to the President of the Trinity Foundation.

30) POSTGRADUATE TRAVELLING SCHOLARSHIP IN MEDICINE AND SURGERY:
This scholarship is awarded annually in medicine and surgery in alternate years. The award for 2014 will be in Medicine. The object of the scholarship is to encourage younger graduates to undertake further work in specialised aspects of medicine and surgery, including the acquisition of modern techniques and the carrying out of research. The award is made on the recommendations of a committee and candidates may be requested to attend for interview. The committee consists of the Dean of the Faculty of Health Sciences, the Dean of Graduate Studies, the Regius Professors of Medicine or Surgery (depending on whether the scholarship is in medicine or surgery) and the Professor of Histopathology and Morbid Anatomy. The successful candidate is expected to work for at least nine months under the direction of a senior member of staff in a hospital or university department outside Dublin approved by the Board of the College. The work must consist of advanced study, preferably including research, in some specified field and should be such as to enable the successful candidate to gain experience of modern methods of investigating disease. Approval of the Board must also be obtained for any change in the agreed programme of study and research. Payments under the scholarship are made as follows: A sum equivalent to one sixth of the total amount is paid initially to cover the first month of the scholarship. Thereafter, a sum equivalent to one eighth of the balance is paid each month for the remaining eight months. The scholar's Supervisor is asked for a report at the end of six months, and the final monthly payment is made after a satisfactory report has been received. Value approximately €22,220. The winner also receives the Sheppard memorial prize (see below) value €5,078, together with the Sir John Banks medal in medicine or the Edward Hallaran Bennett medal in surgery (see below).

This scholarship and the Dr Henry Hutchinson Stewart scholarship (q.v.) are awarded from a fund obtained by consolidating the following funds:
a) John Banks Fund

b) Edward Hallaran Bennett Fund

c) Bicentenary Fund

d) Dr Henry Hutchinson Stewart Fund.

For details of these funds see under the appropriate headings below.

a) JOHN BANKS FUND: This fund was established in 1907 by a gift from Sir John T. Banks, King’s Professor of the Practice of Medicine 1849-69 and Regius Professor of Physic 1880-98. The income of the fund contributes to the provision of a postgraduate award in medicine. A John Banks medal in bronze is given to the winner of the award (see above).

b) EDWARD HALLARAN BENNETT FUND: This fund was established in 1907 by past pupils in appreciation of E. H. Bennett, Professor of Surgery 1873-1906. The income of the fund contributes to the provision of a postgraduate award in surgery. An Edward Hallaran Bennett medal in bronze is given to the winner of the award (see above).

c) BICENTENARY FUND: This fund was established in 1912 to mark the bicentenary of the School of Physic. The income of the fund contributes to the provision of postgraduate awards in medicine or surgery (see above).

d) DR HENRY HUTCHINSON STEWART SCHOLARSHIP IN PSYCHIATRY: This scholarship was founded in 1884 by a bequest from Henry Hutchinson Stewart. It is awarded annually and is available to graduates in medicine of not more than ten years’ standing. The object of the scholarship is to encourage younger graduates to undertake further work in the specialised aspects of psychiatry, including the acquisition of modern techniques and the carrying out of research. Awards are made on the recommendation of a committee comprising of the Dean of the Faculty of Health Sciences, the Professor of Psychiatry, the Regius Professor of Physic and the Dean of Graduate Studies. Candidates may be required to attend for interview. Successful candidates are expected to work for at least six months under the direction of a senior member of staff in a hospital or a university department approved by the Board of Trinity College. The work must consist of advanced study, preferably including research, and should be such as to enable the successful candidate to gain experience in modern methods of investigating disease. Approval of the Board must be obtained for any change in the agreed programme of study and research. The value of the scholarship is the equivalent of 33 per cent of the current annual income of the existing consolidated fund comprising the Banks, Bicentenary, Bennett and Henry Hutchinson Stewart Funds. Value, about €10,792.
31) **SARAH PURSER MEDICAL RESEARCH FUND:** Through the munificence of Miss Sarah H. Purser, r.h.a., a sum of €12,697 was given to Trinity College in 1942 to provide, from investment, an annual income to be devoted to the promotion of medical research in Ireland. The income from the fund pays the stipends of one or more investigators, who must be graduates of a university or hold diplomas in scientific subjects from recognised colleges. The investigators, when appointed, may carry out research in any branch of medical science in any institution in Ireland in which facilities for the investigation in hand for the time being can be made available. Investigators are appointed for periods of not more than two years by the Board of Trinity College acting on the terms of the fund. Further particulars may be obtained from the Dean of the Faculty. Value, €6,348.

32) **SHEPPARD MEMORIAL PRIZE:** In 1970 a bequest was received from the trustees of Dr John F. Sheppard and Dr Molly Sheppard. It is awarded to the winner of the postgraduate prize in medicine or surgery (see above). Value, €5,078.

33) **E.C. SMITH SCHOLARSHIP IN PATHOLOGY:** In 1956 a bequest was received under the will of the late Mrs I. A. Smith to found a scholarship for research in pathology in memory of her son, Edmund Cyril Smith, formerly assistant to the Professor of Pathology in the University. The following regulations have been made by the Board: The scholarship is offered triennially and is held for two years. The scholar must carry out under the direction of a member of the staff of the medical school of Trinity College, full-time research in pathology (including immunology, virology, and such aspects of microbiology, haematology and clinical biochemistry as are relevant to disease in human beings). The research must be carried on in Trinity College, or in a Dublin hospital, save that a Smith scholar who is a graduate of the University of Dublin may, if the Supervisor considers it desirable, work elsewhere for a period of not more than twelve months. Awards are made on the recommendation of a committee comprising the Chairman of the Division of Laboratory Medicine, the Professors of Histopathology and Morbid Anatomy and the Professor of Microbiology. The first scholar was appointed in 1959. Value, €9,523 per annum.

34) **STOKES KENNEDY CROWLEY PRIZE:** The award was founded in 1969 by Stokes Kennedy Crowley, Chartered Accountants. A prize of €190 is awarded annually to the student on the M.B.A. course whose project is rated best by the examiners.

35) **RICHARD SMYTH EXHIBITION IN TROPICAL MEDICINE:** This prize was founded in 1940 by a gift from Richard Smyth to encourage the study of tropical medicine. It is offered biennially to the candidate who obtains the highest marks for (a) an essay on a tropical disease or on an aspect of tropical hygiene, and (b) reports on five cases of tropical disease personally studied by him/her either in the wards of a hospital for tropical diseases in Great Britain or Ireland, or in a tropical country. Equal marks are allotted to (a) and (b). A candidate
must be a medical graduate of the University of not more than five years’ standing, who has either been awarded a prize at the examination for the Richard Smyth prizes, or been adjudged by the examiners to have attained a satisfactory mark. A candidate who has been awarded the exhibition may not subsequently compete. Essays and notes on cases must be dispatched so as to reach the Dean of the Faculty not later than 31st October in the year in which the exhibition is available. Value, €2,158.

36) **TECHNICON RESEARCH FELLOWSHIP:** This fellowship was established in 1980 by a gift of a capital sum from Technicon (Ireland) Limited. Appointment to the fellowship is open to suitably qualified graduates, whether of this University or elsewhere. On each occasion that the fellowship is to be filled, a committee comprising the Dean of the Faculty of Health Sciences, together with the Regius Professors of Physic and Surgery, and the Professors of Obstetrics and Gynaecology and Microbiology advise on the choice of an area of research. The area of research having been approved by Technicon (Ireland) Limited, the fellowship is advertised. Applicants for the fellowship are assessed by an interviewing committee set up by the University Council on the nomination of the Dean of the Faculty. The composition of the interviewing committee will vary with the area of research. The successful applicant is appointed to the fellowship for a period of one year renewable for two further periods of one year each, and is encouraged to register for a higher degree. Value: approximately €10,792 per annum.

37) **VICTORIA UNIVERSITY SCHOLARSHIP:** This scholarship is open for application on an annual basis. The successful applicant must be registered for a research (M.Litt., Ph.D.) degree in TCD in the field of Irish-Australian Studies that is in the areas of historical, economic, social and scientific aspects of the relationship between Ireland and Australia. The topic of study must be one that can be effectively supervised by a member of staff at Victoria University. The scholarship does not provide for travel costs to Australia but the successful candidate will register for the year at Victoria University, Australia and will have their fees waived for that period. The year at Victoria University will be recognised by TCD as equivalent to one spent in TCD. Value, variable, depending on fee levels at Victoria University.

38) **WHITE POSTGRADUATE FELLOWSHIP IN IRISH ART HISTORY:** The White fellowship was established in 2007 to promote excellence in research in Irish Art History. Applicants should hold at least a 2.1 degree in Art History or a cognate subject. The award is offered for up to two years for M.Litt. students, and three years for Ph.D. students, and is subject to annual review of academic progress. The amount of the award is €15,000 maintenance per annum, plus waiver of College annual fees (subject to specified annual limits). Details of the fellowships can be found on the website of TRIARC (http://www.tcd.ie/History_of_Art/triarc/), or by emailing the Irish Art Research Centre in the History of Art Department (triarc@tcd.ie).
39) **PROFESSOR D.A. WEBB SCHOLARSHIP:** This scholarship was established in 1995 in memory of Professor D.A. Webb, Professor of Systematic Botany in T.C.D. The fund was established with monies provided through his estate and subsequent donations given by friends and colleagues in his memory. The scholarship is managed by three trustees, the Head of the Department of Botany, the Curator of the Herbarium, to whom application should be made, and the Provost of Trinity College Dublin. The fund is designed to allow students to understand fully, Irish plant variation, distribution and occurrence, in its wider European context. In part the fund is used to support field-work and, in part, to support needy postgraduate students undertaking relevant study. Value, €6,348 in 2001.

40) **DAN BRADLEY PHD PRIZE IN PHYSICS:** In memory of Dan Bradley, Professor of Optical Electronics (1980-1984), the School of Physics has established a graduate student prize. This prize is awarded for an exceptional PhD thesis as recommended by the internal examiner following the viva voce examination. The value of the prize is €500.

41) **HEFFERNAN BURSARY:** The Heffernan bursary fund was established in 2003 in memory of Lola Margaret Heffernan through a bequest from her brother, the late Reverend Brendan Heffernan P.P. who was the first Catholic Chaplain to Trinity College Dublin. The income of the fund, to be allocated by the trustees of the fund, is to support such person or persons being in need of financial assistance to enable them to undertake a course of study which would lead to an enhancement of their skills as teachers or principals within the secondary school system. The trustees of the fund are Mr David K. Anderson and Mr John Heffernan. Annual value, €4,000.

42) **PETER IRONS POSTGRADUATE FELLOWSHIP:** This fellowship was established in 2010 in memory of Peter Nicholas Irons, B.A. (1966). It is awarded for the postgraduate study of Irish writers in the English language and is administered by the School of English at Trinity College, Dublin. The Fellowship will be awarded annually and the value of award is €5,000 per year.

43) **POLLARD FELLOWSHIP:** The Fellowship was established in 2015 in memory of Mary Pollard, sometime Keeper of Early Printed Books, Trinity College Library Dublin. The Fellowship provides funds for post-graduate work in Irish Bibliography. Applications should be made to the Librarian & College Archivist by the end of Michaelmas Term with the Fellowship awarded by the end of Hilary Term. An annual fellowship of €4,500 will be awarded.
Source of funds

The Ussher Fellowships are payable from funds derived from several sources including the Trinity Foundation, an independent charitable trust which raises funds for Trinity College, Dublin.

Postgraduate Studentships are payable from a fund which consolidates the bequests listed below. They are subject to the limitations here shown. Students do not apply for these specific awards.

<table>
<thead>
<tr>
<th>Fund</th>
<th>Limitation</th>
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<tbody>
<tr>
<td>1) Ambrose</td>
<td>None</td>
</tr>
<tr>
<td>2) Blake</td>
<td>Irish History</td>
</tr>
<tr>
<td>3) Brooke</td>
<td>None, but preference for classics or mathematics</td>
</tr>
<tr>
<td>4) Burgess</td>
<td>None as to subject, but only for women</td>
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<tr>
<td>5) Donnelly</td>
<td>Science</td>
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<tr>
<td>6) Ferguson</td>
<td>Linguistics and Irish</td>
</tr>
<tr>
<td>7) FitzGerald</td>
<td>Experimental physics</td>
</tr>
<tr>
<td>8) Gardner</td>
<td>Pharmaceutical Science</td>
</tr>
<tr>
<td>9) Hackett</td>
<td>Natural Sciences</td>
</tr>
<tr>
<td>10) Harmsworth</td>
<td>None, but preference for medicine, surgery, music, or a subject with a specifically Irish interest</td>
</tr>
<tr>
<td>11) Kells Ingram</td>
<td>None</td>
</tr>
<tr>
<td>12) Bishop Law</td>
<td>Mathematics</td>
</tr>
<tr>
<td>13) Lawrence</td>
<td>Languages (Classical or Modern)</td>
</tr>
<tr>
<td>14) Ledoux</td>
<td>Medicine</td>
</tr>
<tr>
<td>15) Longfield</td>
<td>Modern Literature</td>
</tr>
<tr>
<td>16) Lyster</td>
<td>None</td>
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<tr>
<td>17) McCullagh</td>
<td>Theoretical physics or applied mathematics</td>
</tr>
<tr>
<td>18) MacKenny</td>
<td>Chemistry</td>
</tr>
<tr>
<td>19) Madden</td>
<td>None</td>
</tr>
</tbody>
</table>
Details of the funds referred to above in connection with postgraduate awards and moderatorship prizes are given below.

1) **CHARLES AMBROSE FUND**: Established in 1965 by a bequest of Miss K.M. Ambrose in memory of her father Charles Ambrose, LL.D. The income is available for general postgraduate awards.

2) **BLAKE NATIONAL HISTORY SCHOLARSHIP FUND**: Established in 1884 by a bequest of Miss Helen Blake to promote research in Irish history.

3) **BROOKE FUND**: Established in 1879 by a gift from the Misses Brooke.

4) **KATHLEEN BURGESS FUND**: Established in 1929 by Mr and Mrs William R. Burgess, to provide prizes or awards for women students, on graduating, in memory of their daughter Kathleen Burgess.

5) **DR EITHNE DONNELLY FUND**: An award will be made annually under the terms of the will of the late Dr Eithne Donnelly to a suitably qualified University of Dublin woman graduate in the Sciences who is registered for a higher degree in the University.

6) **FERGUSON MEMORIAL PRIZE**: Established in 1907, see under PRIZES IN ARTS, CALENDAR PART II. In 1977 it was decided to devote the balance of the fund to postgraduate research.

7) **FITZGERALD MEMORIAL FUND**: Established in 1902 in memory of Professor George Francis FitzGerald, F.T.C.D., to promote research in experimental physics.

8) **GARDNER MEMORIAL FUND**: Established in 1977 by the members of the Pharmacy Club to promote research in pharmaceutical science by enabling a pharmacy
graduate with an honours degree to proceed to a higher degree, or, failing its need for the aforementioned purpose, by promoting research in the School of Pharmacy.

9) **JOHN WINTHROP HACKETT FUND:** Established in 1926 by a bequest of Sir John Winthrop Hackett, to provide an award in applied science.

10) **EMILIE (MAFFETT) HARMSWORTH FUND:** Established in 1943 by Lord Harmsworth of Egham, to found awards in memory of his wife. Preference is given to candidates proposing to carry out research in medicine, surgery, music or a subject with a specifically Irish interest.

11) **KELLS INGRAM RESEARCH FUND:** Established in 1958 by a bequest of Captain Kells Ingram. The income is available for general postgraduate awards.

12) **BISHOP LAW FUND:** Established in 1796 by a gift of John Law, Bishop of Elphin, to encourage the study of mathematics.

13) **T. E. LAWRENCE FUND:** Established in 1974 by a bequest by Miss Lilian Joyce Ludlow to found the T. E. Lawrence scholarship. It will be awarded in the area of classical studies or modern languages.

14) **LEDOUX FUND:** Established in 1959 by a bequest of Mrs E. G. Ledoux, to be applied for the furtherance of research in the School of Physic of the University.

15) **MOUNTIFORT GEORGE LONGFIELD FUND:** Established by a bequest in 1946 by Miss M.L.B.Longfield, to found an award in modern languages and English literature and language in memory of her brother, Mountifort George Longfield.

16) **THOMAS WILLIAM LYSTER FUND:** Established by a bequest in 1946 by Mrs Jane Robinson Lyster, to found an award in memory of her husband, Thomas William Lyster.

17) **MCCULLAGH FUND:** Established in 1854 by subscription in memory of James McCullagh, Fellow 1835-47, to encourage research in mathematics or theoretical physics.
18) **CHARLES MACKENNY FUND**: Established by a bequest in 1967 by Miss Coralie Violet Sara Hudson, to found a prize in chemistry in memory of her uncle, Charles MacKenny.

19) **MADDEN FUND**: Established in 1798 by a bequest of Samuel Molyneux Madden, originally with the primary purpose of providing a prize for the best unsuccessful candidate at the Fellowship examination. The income of the fund is now applied to postgraduate awards.

20) **SIR FREDERICK WILLIAM MAZE FUND**: Established in 1975 by a bequest of Sir Frederick William Maze. The income is available for general postgraduate awards.

21) **TRINITY COLLEGE TRUST**: Accumulated from various sources.

22) **WHATELY MEMORIAL FUND**: Established in 1871 by subscription in memory of Richard Whately, Archbishop of Dublin, to promote the study of political economy.
Trinity College Postgraduate Research Studentships (code 1252)

1. General

A number of postgraduate research studentships are offered annually to highly qualified candidates to enable them to undertake Ph.D. studies in the University of Dublin. The holder is required to engage in teaching-related activities, as designated by their Director of Teaching and Learning (Postgraduate), to a maximum of six hours per week. For EU and non-EU fee-paying students they provide an annual maintenance contribution of €6,500 and a full fee remission.

This scheme is open to new entrants as well as continuing students on the full-time Ph.D. register. Payments are made in twelve monthly instalments directly to the student’s bank account via the Staff Office payroll.

2. Eligibility

Normally, awards will be made only to applicants who are placed in the first class or the first division of the second class at a moderatorship or final examination or who obtained equivalent status at a final degree examination in a professional subject. Graduates who are reading for the Ph.D. degree may also be eligible if they have already received a Masters degree (excluding the degree of Masters in Arts from the University), irrespective of the class of primary degree received.

3. Conditions

The Trinity College Postgraduate Research Studentships are open to graduate research students undertaking research in any branch of learning (subject to availability of resources and competent supervision in the chosen area). These awards are offered subject to the following conditions: the holders must be new entrants or continuing students on the Ph.D. register, engaged in full-time research and must be registered for a higher degree of Ph.D. in the University of Dublin. Holders are required to engage in relevant academic and professional activities as determined by the Director of Teaching and Learning (Postgraduate). Within such activities, teaching-related activities such as demonstrating are limited to a maximum of six hours per week and are governed by guidelines provided by the Graduate Studies Committee. Eligibility for the awards is conditional upon the values of any scholarships, or awards, or income received by applicants from other sources (see above). The receipt of any additional funding or scholarships must be notified immediately to the Graduate Studies Office. Holders of Postgraduate Research Scholarships may not earn in
excess of €18,000 (inclusive of the award maintenance) by private tuition, demonstrating, etc., or from other funds.

Internships should be encouraged as a positive experience during a student's Ph.D. However, should undertaking an internship result in the student's income exceeding the upper limit of €18,000, a case can be made to the Dean of Graduate Studies, with support from the Supervisor, confirming that the internship is relevant to the research and should be undertaken. If this is approved by the Dean, the student will continue on the research register for the duration of the internship, while the award stipend will not be paid to the student for that period and will be returned to the general Postgraduate Award fund. The income received during this time will not be counted towards the student's overall income for the year.

4. Applications

New entrants to the research register are not required to complete a separate Award application form. A section on the research application form must be completed in order to be considered for an Award. Continuing students who wish to apply for this Award should contact their School directly. Nominations are considered at various times of the year depending on the School. New applicants are advised to submit their applications as early as possible.
Trinity Trust Travel Grants

The Executive Committee of the Trinity Trust makes funds available to the Graduate Studies Committee for allocation to graduate students for attendance at conferences related to their research. Regulations and application forms are available from the Graduate Studies Office. This form is available on the local page of the Graduate Studies Web site. Awards are made quarterly (deadlines 1st December, 1st March, 1st June and 1st September) and application must be made in advance of travel.
Ussher Awards

1. General

These Awards are granted to exceptionally well-qualified candidates of outstanding promise intending and permitted to register on year one for a higher degree of Ph.D. in the University of Dublin. They are open to competition by graduates of any nationality, for research in any branch of learning in the College (subject to availability of resources and competent supervision in the chosen area). The Awards are for a three year period of research on the Ph.D. register. They cover annual fees and provide maintenance of €13,000 per annum. There are six Ussher Awards in every academic year. Three are allocated to successful applicants in the Faculty of Arts, Humanities and Social Sciences, two in the Faculty of Engineering, Mathematics and Science, and one to a successful applicant in the Faculty of Health Sciences. There are, in addition, named Ussher fellowships of limited application (See below for further information).

2. Conditions

Holders must be new entrants to the Ph.D. register, engage in full-time research and must be registered for a higher degree of Ph.D. in the University of Dublin.

Holders have their award renewed annually on the basis of a satisfactory progress report, to a maximum of year three standing on the Ph.D. register and year two standing on the Masters register. Holders who were admitted to the Ph.D. register in year one and subsequently transferred to the Masters register in year two are permitted to retain the award for that year. Payments are made in twelve monthly instalments directly to the student's bank account via the Staff Office payroll. Holders of Ussher Awards may not earn in excess of €18,000 (inclusive of the award maintenance) by private tuition, demonstrating, etc., or from other funds.

Internships should be encouraged as a positive experience during a student's Ph.D. However, should undertaking an internship result in the student’s income exceeding the upper limit of €18,000, a case can be made to the Dean of Graduate Studies, with support from the Supervisor, confirming that the internship is relevant to the research and should be undertaken. If this is approved by the Dean, the student will continue on the research register for the duration of the internship, while the award stipend will not be paid to the student for that period and will be returned to the general Postgraduate Award fund. The income received during this time will not be counted towards the student’s overall income for the year.
3. Applications

New entrants to the research register are not required to complete a separate Award application form. A section on the research application form must be completed in order to be considered for an Award. Nominations are assessed after 1st May and late nominations may be considered if places are still available after this date. Candidates are informed of the outcome of their application from June.

R. B. MCDOWELL USSHER FELLOWSHIP

The London Trust for Trinity College, Dublin provides the R.B. McDowell Ussher Fellowship. This Fellowship is awarded to an exceptionally well qualified candidate in History who wishes to pursue research leading to a Ph.D. in Modern History. This Fellowship is suspended from the academic year 2006/07 until further notice.

THE NESBITT USSHER FELLOWSHIP

This Fellowship, provided by the Trinity Foundation, is awarded to a candidate wishing to pursue research leading to a Ph.D. in History or Botany.

Conditions

In addition to the normal regulations applicable to Ussher fellowships, holders of studentships in their first year must send to the Dean of Graduate Studies reports of satisfactory progress and attendance signed by their Supervisor, which must reach the Graduate Studies Office by 1st December and 1st June. Payments, which are made in two instalments, the first soon after registration in September and the second on 1st April, will only be made on receipt of satisfactory reports.
THE SCHULER USSHER FELLOWSHIP

This Fellowship, funded by Dr Beate Schuler, is awarded to a candidate wishing to pursue research in the School of Chemistry.

The total value of the award will be €19,046 per annum for three years to cover fees, incidentals and living costs. Should there be no suitable candidate in Chemistry, the funds will be used to support a postgraduate conducting research into the chemical effects of drugs in the brain.

THE RACHEL THOMPSON USSHER FELLOWSHIP

This fellowship was founded in 2002 by a bequest from Ms Rachel Thompson, M.A.1930, to the TCD Association and Trust. Ms Thompson, a graduate of the University of Dublin was formerly a teacher of languages at Alexandra College, Dublin. The fellowship is awarded at three-year intervals to a candidate wishing to pursue a Ph.D. in the area of Modern Languages. There is an associated travel grant, funded from the same bequest to which the holder of this fellowship may apply for research travel.

THE PROVOST THOMAS N. MITCHELL USSHER FELLOWSHIP

This fellowship was founded in 2002 to honour Dr Thomas Mitchell, who was Provost from 1992 to 2002. To recognise his enormous contribution both to College itself and Irish Education, Trinity Foundation, The TCD Association and Trust, the London Trust for Trinity College, the University of Dublin Fund (USA), along with other friends of Trinity, established the Provost TN Mitchell Fellowship Fund in perpetuity. The fellowship is awarded at five-year intervals to a candidate wishing to pursue a Ph.D.
Postgraduate degree and diploma fees 2015/16

The listed fees apply to all new entrants and continuing students on postgraduate courses in 2015/16.

The fees do not include the student Sports Centre charge of €120 or the €8 U.S.I. membership fee (optional).

There is a conferring fee of €135 payable by all students for Commencements.

A Certificate and Diploma graduation fee of €75 is payable by all students in their first year of study registering on certificate or diploma courses.

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### Academic Year Structure 2017-18

**Printable version:** Academic Year Structure 2015/16 (pdf)

<table>
<thead>
<tr>
<th>Week</th>
<th>Dates 2017/18 (week beginning)</th>
<th>Outline Structure of Academic Year 2017/18</th>
<th>Notes</th>
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<tbody>
<tr>
<td>1</td>
<td>28-Aug-17</td>
<td>Supplemental Examinations</td>
<td></td>
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<tr>
<td>2</td>
<td>04-Sep-17</td>
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<tr>
<td>3</td>
<td>11-Sep-17</td>
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<tr>
<td>4</td>
<td>18-Sep-17</td>
<td>Freshers’ Week/Undergraduate Orientation Week</td>
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<td>5</td>
<td>25-Sep-17</td>
<td>Teaching Week 1</td>
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<tr>
<td>6</td>
<td>02-Oct-17</td>
<td>Teaching Week 2</td>
<td></td>
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<tr>
<td>7</td>
<td>09-Oct-17</td>
<td>Teaching Week 3</td>
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<td>8</td>
<td>16-Oct-17</td>
<td>Teaching Week 4</td>
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<tr>
<td>9</td>
<td>23-Oct-17</td>
<td>Teaching Week 5 (Monday, Public Holiday)</td>
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<tr>
<td>10</td>
<td>30-Oct-17</td>
<td>Teaching Week 6</td>
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<tr>
<td>11</td>
<td>06-Nov-17</td>
<td>Teaching Week 7 – Study Week</td>
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<td>12</td>
<td>13-Nov-17</td>
<td>Teaching Week 8</td>
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<tr>
<td>13</td>
<td>20-Nov-17</td>
<td>Teaching Week 9</td>
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<tr>
<td>14</td>
<td>27-Nov-17</td>
<td>Teaching Week 10</td>
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<tr>
<td>15</td>
<td>04-Dec-17</td>
<td>Teaching Week 11</td>
<td></td>
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<tr>
<td>16</td>
<td>11-Dec-17</td>
<td>Teaching Week 12</td>
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←Michaelmas term ends Sunday 17 December 2017
<table>
<thead>
<tr>
<th>Date</th>
<th>Day</th>
<th>Events</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>17 Dec-17</td>
<td>18-Dec-17</td>
<td>Christmas Period (College closed 22 December 2017 to 1 January 2018, inclusive)</td>
<td>Note: it may be necessary to hold some exams in the preceding week.</td>
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<tr>
<td>01-Jan-18</td>
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<td>Foundation Scholarship Examinations</td>
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<tr>
<td>10-Jan-18</td>
<td>15-Jan-18</td>
<td>Teaching Week 1</td>
<td>Hilary Term begins</td>
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<tr>
<td>20-Jan-18</td>
<td>22-Jan-18</td>
<td>Teaching Week 2</td>
<td></td>
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<td>25-Jan-18</td>
<td>29-Jan-18</td>
<td>Teaching Week 3</td>
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<tr>
<td>05-Feb-18</td>
<td>05-Feb-18</td>
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<td>12-Feb-18</td>
<td>12-Feb-18</td>
<td>Teaching Week 5</td>
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<td>Teaching Week 6</td>
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<td>26-Feb-18</td>
<td>26-Feb-18</td>
<td>Teaching Week 7 – Study Week</td>
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<td>05-Mar-18</td>
<td>05-Mar-18</td>
<td>Teaching Week 8</td>
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<td>Teaching Week 12</td>
<td>←Hilary Term ends Sunday 8 April 2018</td>
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<td>Revision Trinity Week (Monday, Trinity Monday)</td>
<td>Trinity Term begins</td>
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<td>16-Apr-18</td>
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<td>23-Apr-18</td>
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<td>Revision</td>
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<tr>
<td>30-Apr-18</td>
<td>30-Apr-18</td>
<td>Annual Examinations 1 (Monday, Public Holiday)</td>
<td>Annual Examination period: Four weeks followed by five weeks for marking, examiners’ meetings, publication of</td>
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<td>07-May-18</td>
<td>07-May-18</td>
<td>Annual Examinations 2</td>
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<td>14-May-18</td>
<td>14-May-18</td>
<td>Annual Examinations 3</td>
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<td>Week</td>
<td>Date</td>
<td>Event Description</td>
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<td>39</td>
<td>21-May-18</td>
<td>Annual Examinations 4 results, Courts of First Appeal and Academic Appeals.</td>
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<tr>
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<td>28-May-18</td>
<td>Marking/Courts of Examiners/Results</td>
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<td>41</td>
<td>04-Jun-18</td>
<td>Marking/Courts of Examiners/Results</td>
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<td>11-Jun-18</td>
<td>Marking/Courts of Examiners/Results</td>
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<tr>
<td>43</td>
<td>18-Jun-18</td>
<td>Marking/Courts of Examiners/Results/Courts of First Appeal</td>
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<tr>
<td>44</td>
<td>25-Jun-18</td>
<td>Courts of First Appeal/Academic Appeals</td>
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← Statutory (Trinity) Term ends Friday 1 July 2018

Eight weeks between end of statutory (Trinity) term and commencement of statutory (Michaelmas) term. This period is also used for writing up Masters dissertations and research theses due for submission in September.

← Ends Sunday 26 August 2018