

University College Dublin
An Coláiste Ollscoile Baile Átha Cliath

National University of Ireland, Dublin
Ollscoil na hÉireann, Baile Átha Cliath



Architecture

Session 2004/05

Degrees in Architecture

Extract from the Statute of the University

The University may grant the following degrees to students who, under conditions laid down in the statutes and regulations, have completed the approved courses of study and have passed the prescribed examinations of the University and fulfilled all other prescribed conditions.

In the Faculty of Engineering and Architecture:

Bachelor of Science (Architectural Science) (BSc)

Bachelor of Architecture (BArch)

Master of Architectural Science (MArchSc)

Master of Urban and Building Conservation (MUBC)

Higher Diploma in Building Project Management (HDipBPM)

Master of Science in Building Project Management (MSc)

Master of Science in Urban Design (MSc)

Doctor of Philosophy (PhD)

Introduction

The School of Architecture, which was established in 1911, is a Department within the Faculty of Engineering and Architecture. The School is located at Richview, Clonskeagh, which has a common boundary with the main university campus at Belfield. All studio work, lectures and courses are held in the School.

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Degree of Bachelor of Science (Architectural Science)

This course forms Part One of the two-part course leading to the Bachelor of Architecture Degree. Normally students who have completed the course and obtained the Bachelor of Science (Architectural Science) Degree will proceed to the Bachelor of Architecture Degree.

However, students who do not wish to proceed to the professional architectural degree (BArch) may apply to undertake further studies in related fields such as Planning or Landscape Architecture.

The course of study consists of projects and lectures and extends over a minimum of nine terms (three years).

Examinations in Architecture

The examinations in written subjects in all years are held at the beginning of the Trinity term and supplementary examinations are held in the Autumn. The examinations in Project Work are based on continuous assessment of the work undertaken during the year, which must be submitted in a portfolio for examination at the end of the Trinity term. The Autumn supplementary examination is based on the Summer Project together with the Year's Work which must be submitted in a portfolio.

Examination Regulations

The approved courses of study for the Bachelor of Science (Architectural Science) Degree must be pursued during at least nine terms as set out on the following pages.

The University Examinations for the Bachelor of Science (Architectural Science) Degree are:

- 1.The First University Examination;
- 2.The Second University Examination;
- 3.The Third University Examination.

Eligibility

To be eligible for admission to each of the examinations, the prescribed course of study for that examination must have been attended satisfactorily. No student will be allowed to take any examination in the University prior to the completion of the preceding examination.

Time Limit

The University examinations of the first, second and third year courses must be passed in the Summer or Autumn of the year following entry to that course.

Exceptions

Students may be permitted or advised to extend this period at the discretion of the Faculty, to which application must be made in writing. Students who have failed Project Work in both Summer and Autumn will not normally be allowed to continue the course. Permission to do so may only be given by the Academic Council on the recommendation of the Faculty.

Where a candidate has reached a Pass Standard in Project Work he/she may be exempted from further examination in this Subject. Where a candidate has reached a Pass Standard in Project Work and in one or more of the other subjects, he/she may be exempted from further examination in these subjects.

Where a candidate has reached a Pass Standard in at least three subjects in the First, Second, or Third Year, or in one Subject of the Fourth Year, or in one Subject of the BArch Degree Examination he/she may be exempted from further examination in these subjects. On re-examination further exemptions may be allowed in single subjects or groups of subjects when a candidate has reached a Pass Standard in these subjects.

Honours

Honours may be awarded only on the results of the Summer examinations and where the candidate has: -

- i) taken the examination for the first time;
- ii) sat for the examination in the Summer immediately following entry to the examination;
- iii) taken all subjects at the one sitting.

In exceptional cases the Faculty may, at its discretion, waive any of these conditions.

Courses of Study and Subjects of Examination leading to the Degree of Bachelor of Science (Architectural Science)

The courses and subjects for the *First Year and First University Examination* are:

ARCT1004	Project Work
ARCT1008	History and Theory of Architecture
ARCT1007	Building Technology
ARCT1001	Environmental Science
CVEN1004	Theory and Design of Structures
ARCT1005	Introduction to Computing in Architecture

The courses and subjects for the *Second Year and Second University Examination* are:

ARCT2010	Project Work
ARCT2003	History and Theory of Architecture
ARCT2009	Building Technology
ARCT2001	Environmental Science
CVEN2025	Theory and Design of Structures

Optional Subject

One of the following (subject to availability):

ARCT2006	Special Topic in Architecture
LANG2001	A Modern European Language
ARCT2005	Urban Design

The courses and subjects for the *Third Year* and *Third University Examination* are:

ARCT3006	Project Work
ARCT3002	History and Theory of Architecture
ARCT3005	Building Technology
CVEN3025	Theory and Design of Structures
EEEN3030	Building Services
ARCT3003	The Ecology of Architecture: Conservation and Sustainability

**Syllabus of Courses for the Degree of Bachelor of Science
(Architectural Science)**

First Year Courses

Project Work*

ARCT 1004

The First Year design studio programme introduces students to architecture and attempts to awaken individual creativity. Students are encouraged to develop a method for their creative work. They are asked to discover, to craft, to reflect and to judge their own way of working. This process is supported by teaching a broad range of skills, including various drawing techniques and model making, by motivating the student's response and invention, and is informed by inviting students to apply analytical skills to diverse contexts. A key objective is to ensure that the student learns that constructional technique and understanding of materials are embedded in the design process. This is encouraged through strategic periodic integration of design and technology studio. The programme begins with a close consideration of things and places, and gradually introduces a wider range of constructional, social, cultural and environmental concerns.

History and Theory of Architecture

ARCT 1008

Traditions and Transformations:

Central to the course is the exploration and understanding of building forms, their evolution and transformation and the pressures that effected these changes, from Minoan times to the present. The course aims to provide the student with the ability to read and understand the buildings of the past and their potential for the future.

Building Technology**ARCT 1007**

- (a) An introduction to building materials and the technology of building. A study of the main building elements and systems for domestic buildings.
- (b)* The illustration of some of the principles of building through studio and building laboratory projects.

Environmental Science**ARCT 1001**

An introduction to the physical characteristics of the environment. A study of man and his response to the environment.

Theory and Design of Structures**CVEN 1004**

Objectives for satisfactory structural design. Intuitive understanding of structural behaviour. Significant aspects and the geometry of structural form. Properties of structural materials and their appropriate use.

Properties of common structural shapes and their appropriate use. Nature and magnitude of loading in building structures. Significance of force equilibrium and Newton's Laws. Structural consequences of designing for compression, tension, bending and shear. Serviceability considerations, especially deflection. Approximate methods of member sizing.

Introduction to Computing in Architecture**ARCT 1005**

Introduction to computers and computing. Microcomputers. Applications for general use: spreadsheets, databases and word processors. Desktop publishing. Computer-aided drawings. Perspective and other projections. Rendering. Printers, scanners, digitisers, plotters. The UCD system. Using the Internet.

Drawing Systems*

An introduction to the geometry of architectural drawing and to drawing conventions used by architects. Practical experience is gained in studio projects designed to illustrate the principles.

Second Year Courses**Project Work*****ARCT 2010**

Project Work: The Second year studio programme aims to develop the student's understanding of the role and responsibilities (political, social, cultural) of architecture in the world; to understand the interaction of functional, social, technical and environmental factors in architecture. The exploration of materiality and construction is fostered through both the technology and design studio and through joint projects, and the insights of history and theory are brought to bear through tutorials and seminars. At the same time the programme is structured to enable the student to develop a design methodology that encompasses both the ability to work strategically and creatively, and the skills to develop a design project through every stage from inception to a good level of completion.

* To be examined on work during the year

History and Theory of Architecture

ARCT 2003

History of Architecture in the Twentieth Century. The second year course in history and theory deals with the development of modern architecture from the latter half of the nineteenth century up to the contemporary period. The course is structured around a lecture series which situates changes and trends in architecture and the work of individual architects in their wider political and cultural context.

In the first term, the emphasis is on how social imperatives and ideals and the demands of the programme have shaped modern architecture. In the second term, the emphasis shifts to an examination of, on the one hand, the role of technology and structural theories in the development of architecture, and on the other hand, the importance to architecture of aesthetic theory and cultural critique.

Building Technology

ARCT 2009

- (a) The properties, performance and uses of the more important building materials. Modern building components and equipment and constructional and service systems.
- (b) *A study through practical application of constructional and service systems.

Environmental Science

ARCT 2001

An appreciation (by experiment) of environmental data. Methods of measurement and analysis. An introduction to methods of prediction. Exercises in analysis and design.

Theory and Design of Structures

CVEN 2025

Concepts underlying the limit state design philosophy. Reinforced concrete framed buildings: preliminary sizing of beams, slabs and columns. Prestressed and post-tensioned concrete: principles and preliminary sizing of beams. Precast concrete floors: systems and preliminary sizing. Introduction to thin shell structures. Steel framed buildings: preliminary sizing of columns and beams. Introduction to frameworks: trusses and space frames. Cable structures. Timber structures: preliminary sizing of joists, laminated beams and posts. Stability of tall buildings.

Optional Subject

One of the following (subject to availability):

- | | |
|-----------------------------------|------------|
| (a) Special Topic in Architecture | (ARCT2006) |
| (b) A Modern European Language | (LANG2001) |
| (c) Urban Design | (ARCT2005) |

Third Year Courses

Project Work

ARCT 3006

The Third Year studio course focuses on developing an understanding of the demands and opportunities for architecture in collective and civic buildings. The course deals with buildings at many levels from materiality and detailed design to analysis of intention and

* To be examined on work during the year

meaning. There is an emphasis on development and refinement of skills and design technique in the studio course, in particular drawing, model making, urban/context studies and analysis of buildings and building types. A number of short projects are run dealing with observation and visual interpretation, and students are encouraged to use descriptive and interpretative models and drawings. There are two main building design projects: a local building for collective use (usually a school) which addresses issues of functional analysis, repetition, ordinariness, the social role of architecture, appropriate expression and relationship to context; a civic building (usually arts/performance related) which deals, in addition to issues confronted in the first project, with the design of a major space with more complex demands.

History and Theory of Architecture**ARCT 3002**

The City, Landscape, Garden and Architecture: An introduction examines representation in its broadest sense from drawing to meaning in architecture. The course investigates the forces and ideas that have shaped the city, the landscape and gardens, and architecture and their inter-dependencies and mutual influence, from the Minoan culture to the twentieth century.

Building Technology**ARCT 3005**

(a) Advanced constructional elements and systems.

(b)* A study through practical application of the construction and servicing of buildings.

Theory and Design of Structures**CVEN 3025**

Examination of structural elements and load systems for substructures and superstructures.

Building Services**EEEN 3030**

Methods of selection and application of systems.

The Ecology of Architecture: Conservation and Sustainability**ARCT 3003****Note**

Intending students are asked to note that to qualify for entry to the Bachelor of Architecture Degree, they must have obtained the Bachelor of Science (Architectural Science) Degree or equivalent.

* To be examined on work during the year

Degree of Bachelor of Architecture (BArch)

The course of study consists of projects and lectures, and is directed towards the advancement of the knowledge of architecture and the preparation of students for careers in architecture.

The course extends over a minimum of six terms (designated Fourth Year and Final Year), and forms Part Two of a three-part course, together with the Bachelor of Science (Architectural Science) Degree (Part One) and the Certificate in Architectural Professional Practice and Practical Experience (Part Three).

To be eligible for the course, candidates must have obtained the Bachelor of Science (Architectural Science) Degree or an equivalent qualification from an approved School of Architecture.

Examination Regulations

The approved courses of study for the Degree of Bachelor of Architecture must be pursued during at least six terms as set forth on the following pages.

The University Examinations for the Degree of Bachelor of Architecture are:

- 4.The Fourth University Examination;
- 5.The Final University Examination.

Eligibility

To be eligible for admission to each examination, the prescribed course of study for that examination must have been attended satisfactorily.-

No student will be allowed to take an examination in the University prior to the completion of the preceding examination.

Time Limit

The University examination of the fourth year course must be passed either in the Summer or in the Autumn of the year following entry to that course.

Exceptions

Students may be permitted or advised to extend this period at the discretion of the Faculty to which application must be made in writing. Students who have failed Project Work in the Summer and Autumn will not normally be allowed to continue the course.

Permission to do so may only be given by the Academic Council on the advice of the Faculty.

Honours

Honours may only be awarded at the Summer examinations and to candidates who are taking the examinations for the first time and who have taken the entire examination at one sitting.

Courses of Study and Subjects of Examination leading to the Degree of Bachelor of Architecture

The courses and subjects for the *Fourth Year and Fourth University Examination* are:

ARCT4008	Project Work
ARCT4007	History and Theory of Architecture
ARCT4009	Design Technologies 1: Design Strategies
ARCT4010	Design Technologies 2: Performance Analysis
ARCT4005	Professional Studies

The courses and subjects for the *Fifth Year and Final University Examination* for the BArch Degree are:

ARCT5003	Project Work
ARCT5004	Professional Studies

Syllabus of Courses for the Degree of Bachelor of Architecture

Fourth Year Courses**Project Work*****ARCT 4008**

The Fourth year aims to develop the student's capacity for study, analysis and reflection, to develop and communicate architectural ideas, an exploratory approach to architectural technology, and to develop advanced skills in architectural design. The studio programme invites students to investigate a range of contemporary issues of built environment provision at varying scales. It places considerable emphasis on the specific skills of independent research, critical thinking and the use of design as a tool for investigation.

History and Theory of Architecture**ARCT 4007**

A series of seminars is offered each year on various themes that address contemporary and historical issues in architecture, urbanism and landscape. The seminars lay the foundations of the subject area and provide the field from which individual study and research can emerge for the preparation of a dissertation. The preparation of the dissertation involves critical reappraisal of built or published materials, or original research dealing with the primary documents.

Design Technologies 1: Design Strategies**ARCT 4009**

Building Control Regulations; Environmentally based building technologies from the perspective of sustainable building principles; Embodied energy, life cycle costing, advanced envelope technologies, appropriate selection and assembly of materials for energy performance.

Scheme design principles and design tools in the context of design life. Introduction to performance based specifications and material based criteria in structural design. Evaluation of alternative structural systems.

The subject matter covered will be applied to Design Studies within Design Interface.

Design Technologies 2: Performance Analysis **ARCT 4010**

Materials

Performance analysis and practical application of investigative tools to thermal envelope performance and environmental modelling software.

Structural appraisal, performance analysis and adaptive reuse of existing structures.

The subject matter covered will be applied to Design Studies within Design Interface.

Professional Studies **ARCT 4005**

Presentations are intended to develop students' professional knowledge, understanding, and skill, to help the client realise their wishes.

Understanding: The relationship between Society and the Profession; our relationship with the client; our relationship with the other actors in construction.

Knowledge: How the architect practices in Ireland and elsewhere. The professional ethos of the architect; Law affecting architectural practice; Documentation used in architectural practice; Managing a project from inception to completion; Management of people, management of the practice.

Skill: How to take and retain leadership in the realisation of the client's wishes; How to communicate clearly; How to run a practice profitably

The Architect and Society: The relationships between architects, the practice of architecture, society, and politics; and **The Architect at Work:** What it's like to be an architect and how to survive and flourish professionally.

Fifth Year Courses

Project Work* **ARCT 5003**

The Fifth year course establishes a process of design exploration through which a thesis intention is developed throughout the year. The year is structured in three consecutive modules; primer project, thesis design and thesis development, supported by a programme of seminars and lectures. The thesis intention is developed through a series of architectural propositions. The year begins with a study trip and ends with an exhibition of each student's journey from statement of intent to developed thesis.

Professional Studies **ARCT 5004**

Fifth Year provides the outline of the knowledge required to practice architecture, having regard to the graduate's need to be able to work effectively as a junior member of a

* To be examined on work during the year.

team, and to be able to quickly advance to running smaller projects under the supervision of a Partner.

The Architect as Project Manager: The architect-client appointment; Taking a brief; Auditing and surveying a building or a site; Working with the "design team" and with contractors; Estimating the cost of a job; Calculating how long a project will take; Dealing with planning and other statutory consents; Obtaining tenders and appointing contractors; Forms of construction contract: management contracting and variants; The standard forms of contract; Administering a project on site; The QTC triangle.

European Credit Transfer System (ECTS)

Credit Scheme for Bachelor of Science (Architectural Science) Degree Programme

First Year Architecture

<i>Course No:</i>	<i>Course Title:</i>	<i>Credits:</i>
1-ARCH-101-STR	Theory and Design of Structures	4
1-ARCH-102-COMP	Basic Computer Science	2
1-ARCH-103-ENSA	Environmental Science A	4
1-ARCH-104-ENSB	Environmental Science B	4
1-ARCH-105-TECA	Building Technology A	4
1-ARCH-106-TECB	Building Technology B	4
1-ARCH-107-HIST	History and Theory of Architecture	4
1-ARCH-108-PROJ	Project Work	<u>34</u>
Total:		60

Second Year Architecture

<i>Course No:</i>	<i>Course Title:</i>	<i>Credits:</i>
2-ARCH-209-STR	Theory and Design of Structures	6
2-ARCH-210-ENS	Environmental Science	6
2-ARCH-211-TECA	Building Technology A	4
2-ARCH-212-TECB	Building Technology B	4
2-ARCH-213-HIST	History and Theory of Architecture	4
2-ARCH-214-SPTC	Special Topic	4
2-ARCH-215-PROJ	Project Work	<u>32</u>
Total:		60

Third Year Architecture

<i>Course No:</i>	<i>Course Title:</i>	<i>Credits:</i>
3-ARCH-316-STR	Theory and Design of Structures	6
3-ARCH-317-TECA	Building Technology A	4
3-ARCH-318-TECB	Building Technology B	4
3-ARCH-319-SERV	Building Services	4
3-ARCH-320-HIST	History and Theory of Architecture	4
3-ARCH-321-SPTC	The Ecology of Architecture: Conservation and Sustainability	4
3-ARCH-322-PROJ	Project Work	<u>34</u>
Total:		60

Credit Scheme for Bachelor of Architecture Degree Programme

Fourth Year Architecture

<i>Course No:</i>	<i>Course Title:</i>	<i>Credits:</i>
	Design Technologies 1: Design Strategies	5
	Design Technologies 2: Performance Analysis	5
4-ARCH-425-HIST	History and Theory of Architecture	6
4-ARCH-426-PROF ST	Professional Studies	4
4-ARCH-427-PROJ	Project Work	<u>40</u>
Total:		60

Fifth Year Architecture

<i>Course No:</i>	<i>Course Title:</i>	<i>Credits:</i>
5-ARCH-528-PROF ST	Professional Studies	8
5-ARCH-530-PROJ	Project Work	<u>52</u>
Total:		60

Additional Information

Equipment

Students are required to purchase the following equipment at the beginning of the first year:

- Mayline,
- Drawing Board,
- Adjustable Set Square,
- A5 Black Sketch Book,
- Lead Sharpener,
- Metric Scale,
- Clutch Pencil,
- Erasing Shield,
- Scalpel and Blades,
- Drafting Brush,
- 1" Masking Tape,
- Eraser,
- 12" Steel Rule,
- 30cm Sketch Roll,
- Circle Template,
- French Curve Set,
- Compass,
- 5M Tape Measure,
- A3 Cutting Mat.

The approximate cost of this equipment is \square 300.

Field Trips

The first year class usually spend three days in the year on a project at a centre outside Dublin. The second year class usually spend one week on a study tour to a city outside the country. Field trips are also held in third and fourth year. The final year begins with a study visit to a European city. Provision should be made for transport costs and hostel-type accommodation.

Year Out

It is common for a student to spend one year in an architect's office between the end of the Bachelor of Science (Architectural Science) Degree and entry to the BArch Degree course, or between the fourth and fifth years of the BArch Degree course.

Retention of Students' Work

All project work submitted by students becomes the property of the School. Project work will normally be returned, but the School reserves the right to retain individual projects or complete portfolios as required by the Visiting Boards of the Professional Bodies or as exemplars for other students.

Computers

Computer use is a normal feature of architectural practice. Students will find it helpful to acquire a computer for personal use early in the first three years of the course.

Certificate in Architectural Professional Practice and Practical Experience

ENCTP0001 / ENCTP0002

Graduates in Architecture who have had not less than two years' approved practical experience and who have passed the examination for the Certificate in Architectural Professional Practice and Practical Experience (NUI) are entitled to exemption from the Examination in Professional Competence of the RIAI and, subject to passing an oral examination, they may qualify for membership of that Institute.

Graduates who have obtained the BArch Degree and the Certificate in Architectural Professional Practice and Practical Experience (NUI) are entitled to exemption from the examination for membership of the Royal Institute of British Architects (RIBA). Graduates qualified for membership of the RIBA are also entitled to apply for registration under the Architects' Registration Acts of the United Kingdom.

The examination for the Certificate in Architectural Professional Practice and Practical Experience is held once a year in the Michaelmas term.

1 Entry to the Examination

1.1 To be eligible to enter for the examination, candidates must:

- (a) be graduates of a five year, approved course in Architecture;
- (b) have completed at least two years' approved postgraduate practical experience;
- (c) have given the School satisfactory certification and assessments of the practical experience.

1.2 Approved postgraduate practical experience is taken to mean experience gained under the supervision of a holder of this Certificate, or of another architect who, in the opinion of the School, is equally competent to supervise work.

1.3 Satisfactory certification and assessments shall be as the School requires, i.e. certificates signed by employers, with essays assessing experience, not less than one year in advance of taking the examination, must be submitted.

1.4 It is the responsibility of the intending candidate to obtain the School's confirmation of eligibility.

2 The Examination

The Certificate shall be awarded to a candidate who:

- 2.1 Has satisfied the School with regard to experience;
- 2.2 Has satisfied the examiners in: (a) a written examination in Professional Practice; (b) a written examination in Management and Administration; (c) an oral examination; (d) a case study of a project on which the candidate has worked.

3 Preparing for the Examination

Intending candidates are advised to:

- 3.1 Contact the School's Practical Training Advisor at least one year before the examination, in order to comply with 1.3 above;
- 3.2 Attend a lecture course given annually before the examination and organised by the School in conjunction with the Royal Institute of the Architects of Ireland.

Higher Diploma in Building Project Management (HDipBPM)

ENHDF0001

Admission to the Higher Diploma in Building Project Management course will be by decision of the Faculty of Engineering and Architecture, on the recommendation of the Head of the School of Architecture. It will be dependent on a satisfactory professional qualification, a minimum level of professional experience, and good general knowledge of construction sector practice and procedures. The course is open to:

- Holders of the NUI Certificate in Architectural Professional Practice and Practical Experience;
- Architect holders of an equivalent professional architectural qualification;
- Other persons with a satisfactory professional construction sector qualification.

Candidates are required to have a minimum of four years' approved professional experience in the construction industry and to have a satisfactory knowledge of the building design and construction process in Ireland. Intending candidates may be required to demonstrate such satisfactory knowledge, and their overall professional maturity and suitability for the course, by interview by the School of Architecture.

The Higher Diploma is taken by way of written examination in five independent modules.

- Foundation module in Building Project Management;
- Building Project Management Principles;
- Managing Building Project Quality, Time and Cost;
- Project Manager: The Promoter's agent; and
- Case Study.

Persons who have passed either the examination for the NUI Certificate in Architectural Professional Practice and Practical Experience or the RIAI Examination in Professional Practice may, subject to interview, be exempted from Module 1: Foundation.

Application Date:

The closing date for receipt of applications will be 30th June.

Degree of Master of Architectural Science (MArchSc)

ENMRFO015 (Mode I)

ENMXFO016 (Mode II)

Candidates for the Degree of Master of Architectural Science must obtain the permission of the Faculty before entering on the course.

A candidate who is a holder of the Degree of Bachelor of Architecture shall be eligible to obtain the Degree of Master of Architectural Science by Mode I or Mode II on the following conditions:

Under Mode I, a candidate

- (a) must attend a full-time postgraduate course in the University for at least three terms after obtaining the primary degree;
- (b) must present a dissertation prepared during such course; and
- (c) must pass an examination on the subject matter of the dissertation if the examiners so decide.

Under Mode II, a candidate

- (a) must attend a full-time postgraduate course for at least three terms after obtaining the primary degree;
- (b) must pass an examination on the course; and
- (c) may be required to submit an essay or dissertation as part of the qualifications for the Master's Degree.

University Regulations

1. Candidates for the Degree of MArchSc must have obtained Honours in the BArch Degree Examination. Graduates in Architecture who are not graduates of this University may be accepted subject to such examinations or tests as the Faculty may decide.
2. Candidates must have the permission of the Faculty to enter a course for the MArchSc Degree.
3. Candidates will not be permitted to attend courses for any University degree or diploma whilst in attendance for the MArchSc Degree.
4. A Pass graduate who desires to take a course for the Degree of Master of Architectural Science should in the first instance apply to the Head of the School of Architecture who may recommend that the graduate be permitted to take as a test, a subject, to be decided by the Faculty, in which he/she must attain Honours marks; this examination to be taken *not less* than one year after the degree examination. The application of such a candidate may be submitted then to the Faculty.

Application Date

The final date for application to the course will be 31st August.

Degree of Master of Urban and Building Conservation (MUBC)

ENMRFO03

ENMRPO031

Candidates for the Degree must obtain the permission of the Faculty before entering on the course.

A candidate who is a holder of the Degree of Bachelor of Architecture, or of an equivalent qualification in Architecture or a degree in a related discipline, shall be eligible to obtain the Degree of Master of Urban and Building Conservation on the following conditions:

- (a) The Degree of Master of Urban and Building Conservation (MUBC) may be taken through a full-time or through a part-time course of study.
- (b) The duration of the full-time course of study is twelve months.
- (c) The duration of the part-time course of study is a minimum of two years. Candidates must complete the requirements for the degree within four years of commencing the part-time course.
- (d) The Degree of Master of Urban and Building Conservation may be obtained by thesis (Mode I) or by examination (Mode II).

Mode I

A candidate must carry out a research project under the direction of the supervisor appointed by the Head of the Department. The thesis presented by the candidate is to embody the results of this research project. A candidate may be required to pass an oral examination on the subject matter of the thesis if the examiners so decide.

Mode II

A candidate must attend a postgraduate course approved by the Faculty and must pass a university examination on the subject matter of the course. A candidate may be required to submit a dissertation on a project undertaken as part of the course; this dissertation will form part of the material to be assessed by the examiners.

University Regulations

1. Candidates for the Degree of Master of Urban and Building Conservation, who are holders of a BArch Degree or of an equivalent qualification in Architecture, must have obtained honours (minimum level: 2.2) in their final examination. Graduates at the required honours level in a related discipline may be accepted subject to reaching an honours standard in an examination or test in a topic to be agreed with the Head of the School of Architecture and approved by the Faculty.
2. Candidates must have the permission of the Faculty to enter a course for the Master of Urban and Building Conservation Degree.

3. Candidates will not be permitted to attend courses for any university degree or diploma whilst in attendance for the Master of Urban and Building Conservation Degree.
4. A Pass graduate in Architecture or a related discipline, or who holds chartered membership of a professional institution approved by the Faculty and who desires to take a course for the Degree of Master of Urban and Building Conservation, should, in the first instance, apply to the Head of the School of Architecture who may recommend that the graduate be permitted to take as an examination or test, a subject, to be decided by the Faculty, in which he/she must attain Honours marks; this examination or test to be taken before the commencement of the course. The application of such a candidate may be submitted then to the Faculty.

Application Date

Applications to the course must be received by 30th September.

Degree of Master of Architecture (MArch)

ENMRFO04

A candidate, who is the holder of the Bachelor of Architecture Degree or of an equivalent qualification in Architecture, shall be eligible to obtain the Degree of Master of Architecture by Mode I or Mode II.

Mode I:

A candidate must have obtained an honours standard in the Bachelor of Architecture Degree or equivalent qualification in Architecture. The candidate

- a) shall have attended a prescribed course of study for one year before presenting for examination,
- b) shall have submitted a project in architectural design which, in the judgment of the examiners, makes a contribution to the field, and
- c) must have written and presented a dissertation which, in the judgment of the examiners, is of sufficient merit.

The regulations on entry to the Mode I degree programme are as follows:

1. Candidates for the Degree of Master of Architecture (Mode I), who are holders of the Bachelor of Architecture Degree or of an equivalent qualification in Architecture, must have obtained Honours (minimum level 2.1) in their final examination.
2. Candidates must have the permission of the Faculty of Engineering and Architecture to register for the Degree.

Mode II:

A candidate may enter for the examination after the expiration of nine terms from the time at which the candidate obtained the Bachelor of Architecture Degree or equivalent qualification. The candidate

- a) shall have designed and executed an architectural work which, in the opinion of the examiners, is of a distinguished character, and
- b) must have written and presented a dissertation which, in the judgment of the examiners, is of sufficient merit.

The regulations on entry to the Mode II degree programme are as follows:

1. Candidates for the Degree of Master of Architecture (Mode II) must be accepted by the Faculty as prospective candidates at least six months before entering for the examination.
2. Candidates are required to give notice to the Dean of the Faculty before 15 January of the year in which they intend to present themselves for examination, with particulars of the building selected for examination under (a) above, the title of the proposed dissertation and details of their professional experience.

Degree of Master of Science in Building Project Management MSc (Building Project Management)

ENMRP0007

Admission to the Degree programme is by permission of the Faculty of Engineering and Architecture.

The programme is open to holders of the Higher Diploma in Building Project Management, and is taken by submission of a dissertation on a subject agreed with the School, together with an oral examination on the subject of the dissertation. The programme is taken on a part-time basis over one year. Dissertations for which the degree is awarded will be retained in the Architecture and Planning Library.

Applications for the course must be received by 1st October.

Degree of Master of Science in Urban Design MSc (Urban Design)

The degree is offered on an inter-departmental basis by the School of Architecture and the Department of Regional and Urban Planning. The degree is administered and supervised by a Joint Academic Board for MSc (Urban Design) drawn from both departments.

Candidates for the Degree of Master of Science (Urban Design) must obtain the permission of the Faculty before entering the course. The course is open to architects, planners and landscape architects with a professional degree, normally at honours level. Civil engineers and chartered surveyors may be admitted subject to examination.

The degree is offered as a one-year, full-time (46 weeks) programme that may be taken as a part-time programme divided over two years to facilitate secondment from employment.

**ENMRF0005
ENMRP0008**

Mode 1

A candidate must carry out a research project or a series of research projects under the direction of the Supervisor recommended by the Joint Academic Board for MSc (Urban Design) and approved by the Faculty. The thesis presented by the candidate is to embody the results of this or these research projects. A candidate may be required to pass an oral examination on the subject matter of the thesis if the examiners so decide. The Board may require that candidates should attend specified available courses in the School of Architecture and the Department of Regional and Urban Planning.

Mode 2

The Mode 2 programme has a significant research orientation, with a coherent sequence of studio projects and an Irish- or European-based research assignment, leading to the production of a thesis. It is underpinned by a core lecture programme. Options are available from courses in the School of Architecture and the Department of Regional and Urban Planning to ensure that candidates have an adequate interdisciplinary background for research. Each candidate must carry out the programme under the direction of the supervisor(s) recommended by the Joint Academic Board for MSc (Urban Design). The course will be subject to prerequisite specified course requirements which will be assessed according to the candidate's professional and academic background; for example, architectural candidates may be required to take predominantly planning-oriented optional subjects, whilst candidates from a planning background may be required to take design-based prerequisites. Core and optional courses will be examined, and studio and placement activities will be assessed and will contribute to the marking of the degree. The structure is based on a twelve-month programme of studies as follows: Core Courses; Optional Courses; Urban Design Studio; Research Assignment and Thesis.

Applications to the course must be received by 30th June.

Degree of Doctor of Philosophy (PhD)

Candidates for this degree are required to be admitted by the Faculty on the recommendation of the Professor; their admission must then be confirmed by the Academic Council. Candidates who have not graduated from this University may be admitted if suitably qualified.

No candidate can be allowed to enter on a course of study and research for the Degree of PhD unless he/she has reached a high honours standard at the examination for the primary degree or presented such other evidence as will satisfy the Professor and the Faculty of his/her fitness.

The degree is normally taken nine terms after a master's degree or primary degree. A reduction in the number of terms would be dependent on progress by the candidate and would be a matter for consideration and decision by the Faculty.

Candidates for the PhD Degree will be allowed six years from the date of registration in which to complete their degree. If they have not done so within that period they must re-apply for registration.

The thesis must normally be prepared under the supervision of the Professor but the Faculty may, on the recommendation of the Professor, assign another member of the staff to supervise the candidate's research, under the Professor's general direction. The thesis must be prepared in the University, unless permission is given to the candidate to work elsewhere under the Professor's general direction. Such permission will only be given to candidates who have attended courses in the University for twelve terms before admission to the course for the PhD.

Candidates may enter for examination in January of the year in which their work is to be examined; the time of examination to be arranged as may be convenient to the candidate and the examiners. If the thesis is not presented before 1st February following, the candidate must re-enter.

Candidates may be required to take an oral examination on the subject matter of their thesis.

This degree will not be awarded unless the examiners report that the work is worthy of publication, as a whole or in part, as a work of serious scholarship.