Trinity College Dublin
Coláiste na Tríonóide, Baile Átha Cliath
The University of Dublin

School of Engineering

MSc in Engineering Handbook

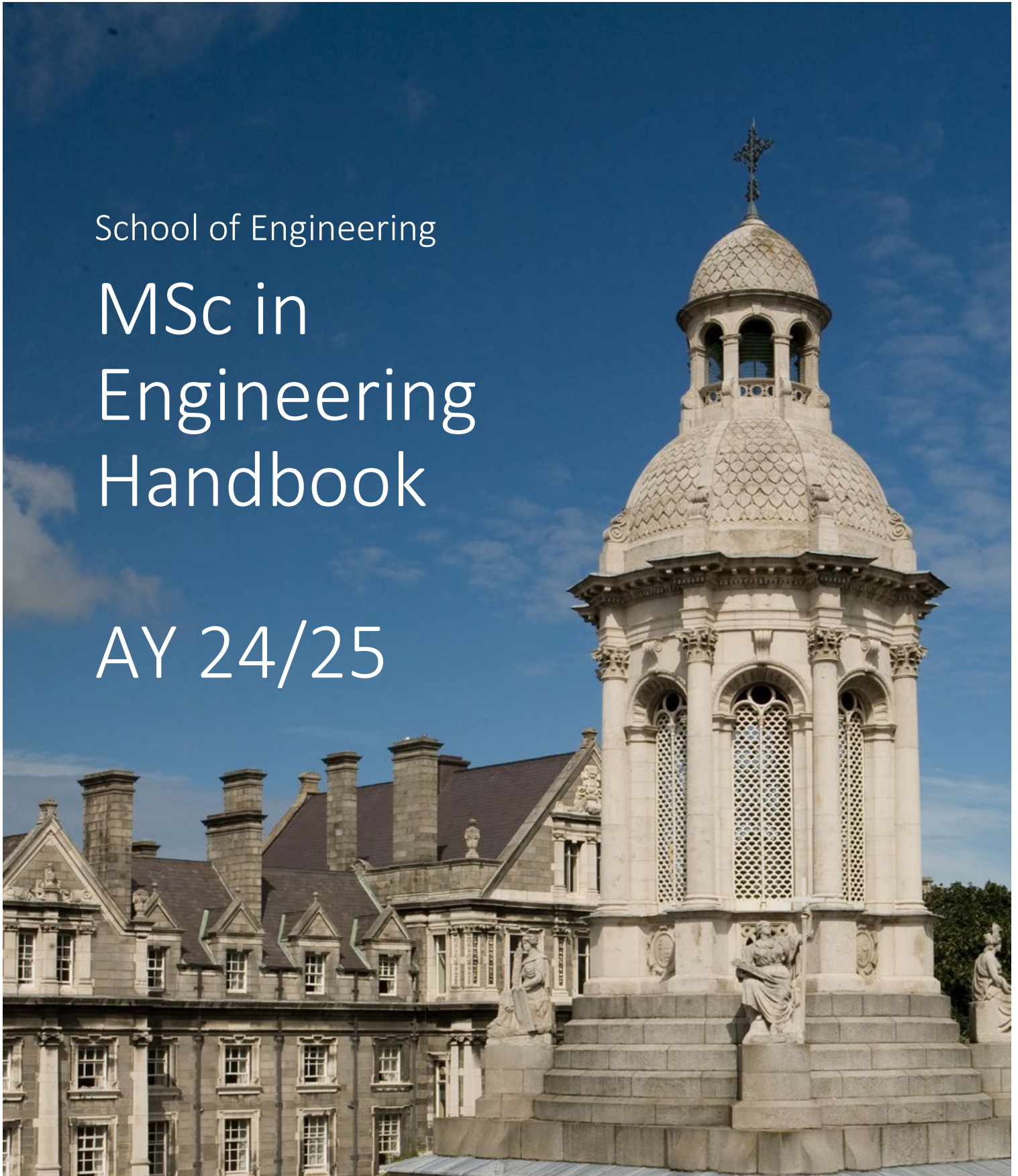## AY 24/25

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1. GENERAL COURSE INFORMATION

1.1 Introduction

Welcome to the MSc in Engineering (Environmental / Structural and Geotechnical / Sustainable Energy / Transport Engineering Policy and Planning) at the Department of Civil, Structural and Environmental Engineering, Trinity College Dublin.

This course aims to develop Engineers with specialist understanding in one of the following streams: Environmental Engineering; Structural and Geotechnical Engineering; Transport Engineering; or Sustainable Energy Engineering. In addition, the course offers student the opportunity to obtain knowledge in complimentary subject areas within Civil Engineering.

This course handbook provides details on the structure and methods of assessment of the programme modules, and other relevant information about the course.

1.2 Contact Details

School of Engineering

School of Engineering, Room 1.01, 1st Floor, Museum Building.

Staff Name	Role/Title	Email address	Contact number
Prof. Alan O'Connor	**Head of School**	Alan.oconnor@tcd.ie	01 896 1822
Asst. Prof. Breiffni Fitzgerald	**Director of Postgraduate, Teaching and Learning**	Breiffni.fitzgerald@tcd.ie	01 896 1146
Ms. Patricia Hughes	**School Manager**	pahughes@tcd.ie	01 896 1796

Department of Civil, Structural & Environmental Engineering
Departmental Office, Room 1.01, 1st Floor, Museum Building

Discipline of Civil, Structural and Environmental Engineering, Room 1.01, 1st Floor, Museum Building. **Office hours:** Monday – Friday, 09:00 hrs until 13:00 hrs and 14:00 hrs until 17:00 hrs. **Closed for lunch:** 13:00 hrs until 14:00 hrs.

Staff Name	Role/Title	Email address	Contact number
Asst. Prof. David O'Connell	**Programme Director, MSc in Engineering**	David.OConnell@tcd.ie	01 896 3892
Ms. Mary Curley	**MSc in Engineering, Administrator**	curleyma@tcd.ie	01 896 2217 (086) 0661924
Mr. George Oatridge	Executive Officer	oatridgg@tcd.ie	01 896 1457

Department of Civil, Structural and Environmental Engineering – Academic Staff

Asst. Prof. Muhammad Ali		Muhammad.ali@tcd.ie	01 896 1743
Prof. Brian Broderick		bbrodrck@tcd.ie	01 896 2348
Prof. Biswajit Basu	CE7J06, module co-ordinator	basub@tcd.ie	01 896 2389
Prof. Brian Caulfield	CE7T02, module Co-ordinator	Brian.caulfield@tcd.ie	01 896 2534
Asst. Prof. Julie Clarke		Julie.clarke@tcd.ie	01 896 8053
Asst. Prof. Breiffni Fitzgerald	CE7J01, CE7C05, CE7S09, module co-ordinator	fitzgeb@tcd.ie	01 896 1638
Asst. Prof. John Gallagher	CEP55E03, CE7M01, CE7M04, module co-ordinator	j.gallagher@tcd.ie	01 896 1638
Asst. Prof. Mohammad Reza Ghaani	CE7M05, module co-ordinator	mohammad.ghaani@tcd.ie	01 896 5019
Assoc. Prof. Bidisha Ghosh	CE7T01, CE7T04, Module co-ordinator	bghosh@tcd.ie	01 896 3646
Prof. Laurence Gill	CE7E07, CE7E05, module co-ordinator	laurence.gill@tcd.ie	01 896 1047
Asst. Prof. John Hickey	CE7S03, module Co-ordinator	John.hickey@tcd.ie	01 896 XXXX
Asst. Prof. David Igoe	CE7S06, module Co-ordinator	igoed@tcd.ie	01 896 3805
Prof. Sarah McCormack	**Head of Department** CE7J02, CE7J04, module Co-ordinator	mccorms1@tcd.ie	01 896 3837
Asst. Prof. Patrick Morrissey	CE7C05, module Co-ordinator	Morrisp5@tcd.ie	01 896 5011
Prof. Alan O'Connor	CE7S04, module co-ordinator	Alan.oconnor@tcd.ie	01 896 1822

Department of Civil, Structural and Environmental Engineering – Academic Staff Contd.

Asst. Prof. David O'Connell	CE7E06, CEP55E06, module co-ordinator	David.oconnell@tcd.ie	01 896 XXXX
Assoc. Prof. Dermot O'Dwyer	CE5A62, CE7S02, module co-ordinator	dwodwyer@tcd.ie	01 896 2532
Assoc. Prof. Brendan O'Kelly	CE7S01, module Co-ordinator	Brendan.okelly@tcd.ie	01 896 2387
Prof. Margaret O'Mahony	CE7T05, module co-ordinator	Margaret.omahony@tcd.ie	01 896 2084
Assoc. Prof. Sara Pavia	CEP55E05, Module co-ordinator	pavias@tcd.ie	01 896 2516
Prof. Karen Wiltshire, CRH Professor of Climate Science		wiltskhik@tcd.ie	To be Confirmed
Assoc. Prof. Liwen Xiao	CE7E04, module co-ordinator	liwen.xiao@tcd.ie	01 896 3741

Department of Civil, Structural and Environmental Engineering – Technical Support Staff

Mr. David Mc Aulay	Chief Technical Officer 1	David.mcaulay@tcd.ie	01 896 2386
Mr. Robert Fitzpatrick	Technical Officer	Robert.fitzpatrick@tcd.ie	01 896 8578
Mr. Michael Grimes	Chief Technical Officer Specialist	Michael.grimes@tcd.ie	01 896 2388
Mr. Joseph O'Connell	Technical Officer	Joseph.oconnell@tcd.ie	01 896 1009
Mr. Patrick Veale	Environmental Technical Officer	vealep@tcd.ie	01 896 3013
Mr. Mark Gilligan	Senior Laboratory Attendant	gilligma@tcd.ie	01 896 2386
Dr. Owen Humphreys	Senior Technical Officer	Owen.humphreys@tcd.ie	01 896 8578
Miss Gabriela Chmiel	Laboratory Attendant	chmielg@tcd.ie	01 896 2244

1.3 Key Locations

Simon Perry Building

Museum Building

References/Sources:

Interactive College Map

Blackboard

Academic Registry

1.4   Key Dates

Important dates and submission deadlines

Important Dates		
WEEK	**DATE**	**MICHAELMAS TERM (2024-2025)**
3	9 Sep 2024	Lectures begin in all modules
4		Tutorials begin from this week
7		Submission of assignment 1: 'Name of module'
7	21 Oct 2024	**Reading Week**
9	4 Nov 2024	Submission of assignment 1: 'Name of module'
11	18 Oct 2024	Submission of assignment 1: 'Name of module'
12	25 Oct 2024	Submission of assignment 2: 'Name of module'
12	25 Oct 2024	Submission of assignment 2: 'Name of module'
		Teaching ends
		Submission of assignment 2: 'Name of module'
WEEK	**DATE**	**HILARY TERM (2024-2025)**
1	20 Jan 2025	Lectures begin in all modules
2	27 Jan 2025	Tutorials begin from this week
6	24 Feb 2025	Submission of assignment 1: 'Name of module'
7	3 Mar 2025	**Reading Week**
8	10 Mar 2025	Submission of assignment 1: 'Name of module'
9	17 Mar 2025	Submission of assignment 1: 'Name of module'

11	31 Mar 2025	Submission of assignment 2: 'Name of module'
12	7 Apr 2025	Submission of assignment 2: 'Name of module'
		Teaching ends
		Submission of assignment: 'Name of module'
		Submission of assignment 2: 'Name of module'

Reference/Source:

[Academic Year Structure](#)

1.5   Timetable

The MSc in Engineering will be available on the MyTCD site. The MSc in Engineering timetable will be issued with the handbook. The timetable will be available from 30th August 2024. Any amendments to the MSc in Engineering timetable will be circulated to the class by email.

[MSc in Engineering/MAi Semester 1 timetable](#)

2.   SCHOLARSHIPS AND PRIZES

The student who achieves the highest overall mark based on the annual MSc in Engineering examinations is awarded the **Robert Friel Prize**, valued at €200.

The student who achieves the highest overall mark based on their dissertation is awarded the **best project prize**, valued at €200.

ACADEMIC WRITING

2.4   Academic Integrity and Referencing Guide

The following is an extract from the Academic Calendar in relation to **Section 1: General Academic Regulations for Graduate Studies and Higher Degrees**

Terminology and Layout Defined

The next group contains graduate students undertaking a taught postgraduate programme. Programmes of study for these graduate students may involve them in research activity and the production of a dissertation of a minor or major nature; however, the dissertations so produced are examined, essentially, by a Court of Examiners wherein an external examiner is appointed by the College to examine the programme as a whole. The regulations pertaining specifically to this group of graduate students are contained in Section 3 and sections 6,7 and 8.

Section 3 General Regulations for Taught Graduate Programmes

The general regulations outlined in Section 1 apply as appropriate in addition to the following regulations specific to taught programmes.

1 Programmes of instruction leading to the higher degrees of B.D., D.Ch.Dent., D.Clin.Psych., D.Couns.Psych., D.Ed., LL.M., M.A.I., M.A.O., M.B.A., M.Ch., M.D., M.Ed., M.Phil., M.Phil.(Ecum.), M.Phil.(Peace Studies), M.Sc., M.Sc.(Mgmt.), M.St., M.S.W., Postgraduate Diplomas (P.Grad.Dip. and H.Dip. (Ed.) Primary Teaching) and Postgraduate Certificates (P.Grad.Cert.) are provided in approved subjects listed in this Calendar Part III. In all cases applications are competitively assessed and candidates who meet the minimum admission requirements set out in this Calendar Part III are not automatically awarded entry.

2 Some Masters programmes have the option of an exit Postgraduate Diploma when the taught component of the programme has been satisfactorily completed. Such P.Grad.Dip. programmes are, for completeness, listed under the appropriate Faculty entry but are not open to entry as separate options from their parent Masters programme i.e., students apply for entry to the appropriate Masters programme.

3 Students who have opted to receive a P.Grad.Dip. may apply to submit subsequently for the corresponding Masters degree. Following completion of the Masters requirements the student will inform the Registrar of their intention to rescind the P.Grad.Dip. and have the credit obtained during the P.Grad.Dip. integrated into the Masters 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 Masters 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 Masters.

4 Students who have opted to receive a P.Grad.Cert. may apply to submit subsequently for the corresponding P.Grad.Dip. and/or Masters degree. Following completion of the P.Grad.Dip. or Masters requirements the student will inform the Registrar of their intention to rescind the P.Grad. Cert. and have the credit obtained during the P.Grad.Cert. integrated into the P.Grad.Dip. or Masters degree. 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 for the P.Grad.Dip. and/or Masters degree 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 who exit with a P.Grad.Cert. as a consequence of failing to attain the pass requirements of the P.Grad.Dip./Masters.

5 All Postgraduate Diplomas may be awarded at two levels (i) Postgraduate Diploma and (ii) Postgraduate Diploma with Distinction.

6 All taught Masters Degrees may be awarded with Distinction. The award of a taught Masters with Distinction shall require the achievement of a distinction for the dissertation but may include additional conditions as specified by the programme committee. A distinction cannot be awarded if a candidate has failed any credit during the period of study. Criteria for the award of a distinction for the dissertation shall be approved by the relevant Director of Teaching and Learning (Postgraduate).

A **link** to the [Academic Integrity Policy](#) and the [Statement of Principles on Academic Integrity](#)

Statement on Integrity

The following Statement on Integrity, approved by Council, was developed for academic staff, professional staff, and students.

In Trinity College Dublin, we commit ourselves as staff and students to acting responsibly and ethically, embracing integrity in all our actions and interactions as members of the College community. Understanding that integrity requires honesty, transparency and accountability, we agree to:

- Strive to do what we say we will, ensuring that we are aware of our commitments and responsibilities in order to fulfil them, and abiding by College and other relevant policies and the highest standards of conduct.
- Give credit where credit is due, recognizing and acknowledging the contributions and achievements of others in scholarship, teaching, research and service.
- Tell the truth, as a community and as individuals, speaking out and listening even when it is difficult, naming problems and honestly acknowledging mistakes.

- Hold ourselves and others to account for the things for which we are each responsible.
- Use resources for the purposes for which they are intended and be above reproach in financial dealings.
- Deal fairly, consistently and transparently with others.

A **link** to the Library Guidelines on Academic Integrity and a link to the declaration text for submitted assignments.

Students need to complete the Ready steady write course tutorial.

Whatever your academic background is, it is your responsibility to understand how to reference correctly – there are lots of supports available if you need more information.

References/Sources:

Calendar Part III, Section 1: General Regulations & Information, 'Academic Integrity'

Statement of Principles on Integrity

Academic Integrity Policy (currently in development)
Library Guides – Academic Integrity

Coversheet Declaration

2.5 Research Ethics

The quest for knowledge and the betterment of society through research are central to the mission of Trinity College. It is essential that all of our research is conducted with integrity and that it adheres to the highest standards of ethical oversight. Research excellence in College is guided by the principles described in the Policy on Good Research Practice document (2002; updated in 2009) and these principles apply to all research conducted by staff and students under the auspices of Trinity College Dublin.

In order to ensure that we continue to operate at the highest levels of excellence all policies in this area are continuously reviewed by the Research Ethics Policy Committee (REPC).

All research with impact has an ethical dimension and all researcher should reflect on the implications of their work, not just in terms of human (and animal) welfare and dignity, but also the social and cultural impact of their research. Funding agencies are placing increasing importance on ethics approval procedures and the scope of research areas requiring ethical review is growing.

Further information on the policy on good research practice,
[Policy on Good Research Practice](#)

References/Sources:

[Research Ethics](#)
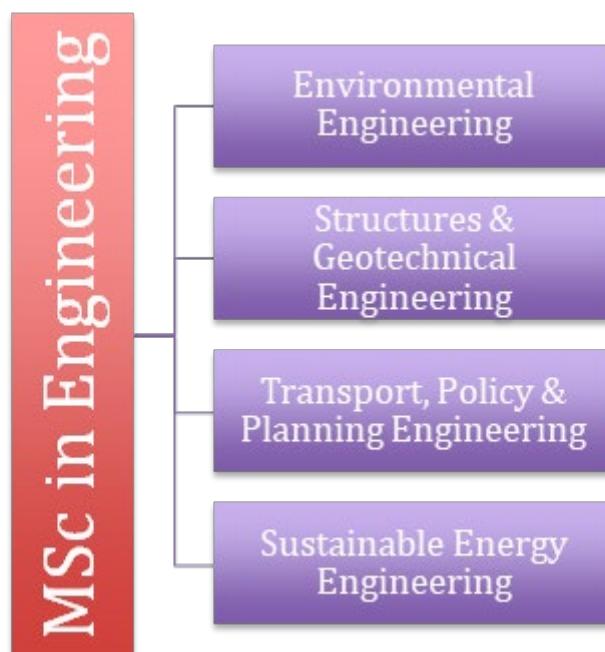
[Policy on Good Research Practice](#)

[Ethics Policy](#)

3. TEACHING AND LEARNING

3.4 Programme Structure

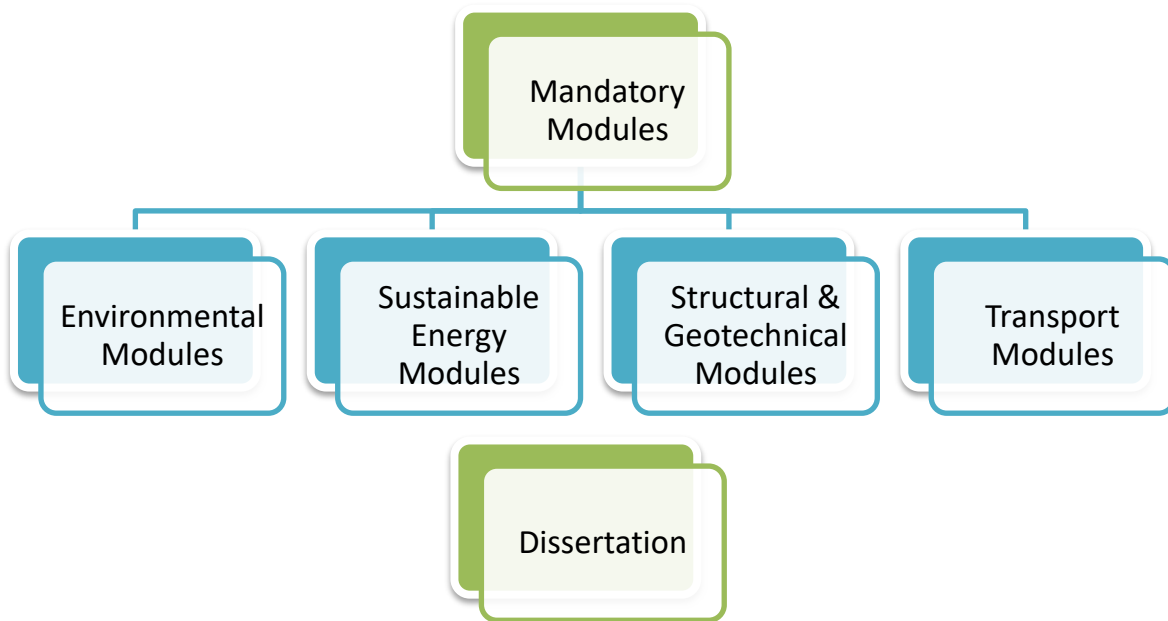**MSc in Engineering Structure**

This course aims to develop engineers with specialist understanding in one of the areas: Environmental Engineering; Structural and Geotechnical Engineering; Transport and Planning Engineering; or Sustainable Energy Engineering. In addition, the course offers students the opportunity to obtain knowledge in complementary subject areas within the Civil Engineering Discipline.

Course Structure:

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                    ┌─────────────────┐
                    │   Mandatory     │
                    │    Modules      │
                    └─────────────────┘
   ┌───────────┬──────────┴──────────┬───────────┐
┌──────────┐ ┌──────────┐  ┌──────────────┐ ┌──────────┐
│Environ-  │ │Sustainable│  │ Structural & │ │Transport │
│mental    │ │  Energy   │  │ Geotechnical │ │ Modules  │
│Modules   │ │  Modules  │  │   Modules    │ │          │
└──────────┘ └──────────┘  └──────────────┘ └──────────┘

            ┌─────────────────┐
            │   Dissertation  │
            └─────────────────┘
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Candidates must take twelve modules, namely the four mandatory modules (CE7M01, CE7M03, CE7M04 and CE7M05), together with at least four of the modules in their chosen specialisation and four other modules, along with the CE7M03; which in total amount to 90 credits.

Full-time Programme:
In the first semester, candidate pursuing the course full time must take modules CE7M01, CE7M04 and CE7M05 along with four five-credit modules selected from options (including at least two from their selected specialisation), listed below.

In the second semester, candidates pursuing the course full time must take module CE7M03 along with four five-credit modules selected from options (including at least two from their selected specialisation), listed below.

Module Descriptors:

Mandatory modules
CE7M01   Civil Engineering Management (10 credits)

CE7M03   Research Dissertation (30 credits)

CE7M04   Engineering Project (5 credits)

CE7M05   Research Methods (5 credits)

Environmental Engineering

CEP55E03   Air Pollution: Monitoring, Assessment and Control (5 credits)

CE7E04   Waste Management and Energy Recovery (5 credits)

CE7E05   Water Quality and Hydrological Modelling (5 credits)

CE7E06   Water Resource Planning and Climate Change (5 credits)

CE7E07   Sustainable Water Supply and Sanitation (5 credits)

CEP55E06   Groundwater and Pollution (5 credits)

Structural and Geotechnical Engineering

CE7S01   Geotechnical Engineering (5 credits)

CE7S02   Advanced Structural Analysis (5 credits)

CE7S03   Wind and Earthquake Engineering (5 credits)

CE7S04   Bridge Engineering (5 credits)

CE7S06   Offshore Geotechnical Engineering (5 credits)

CE7S07   A Unified Theory of Structures (5 credits)

CE7S09   Advanced Theory of Structures (5 credits)

CE5A62   Structures II [Advanced Design of Structures] (5 credits)

CEP55E05   Civil Engineering Materials (5 credits)

Sustainable Energy

CE7J01   Wind Energy (5 credits)

CE7J02   Solar Energy Conversion and Applications (5 credits)

CE7J04   Energy Policy and Energy Storage (5 credits)

CE7J06   Wave Energy (5 credits)

Transport Engineering, Policy and Planning

CE7T01   Transportation Policy (5 credits)

CE7T02   Transportation Modelling and Planning (5 credits)

CE7T04   Intelligent Transportation Systems (ITS) (5 credits)

CE7T05   Transport Design (5 credits)

Common

CE7C05   Advanced Spatial Analysis using GIS (5 credits)

EEP55C23   Computation for Transportation Engineering
EEP55C24   Simulations for Geophysical Modelling

Some of the module options in either semester may be withdrawn from time to time and some new modules may be added, subject to demand. In the event, that insufficient module options are available to meet the minimum module requirements of a particular specialisations then an alternative specialisation or a general Civil Engineering specialisations may be chosen.

By the end of the course, full-time candidates must have completed the mandatory modules including the research dissertation, and at least four of their specialisation module options and four of the other module options, together with the compulsory modules, amounting to a total of 90 credits.

Part-time Programme
Candidates may also take the course part-time over two years. In this case, during the first year, the candidates take eight modules, namely: the mandatory modules CE7M01, CE7M04 and CE7M05 along with five of the module options (including at least two from their chosen specialisation), which together amounts to 45 credits. During the second year, candidates must complete the compulsory CE7M03 module together with three other module options (including at least two from their chosen specialisation) which amounts to 45 credits. By the end of the course, part-time candidates must have completed the mandatory modules including the research dissertation, and at least four of their specialisation module options and four of the other module options, together with the compulsory modules, amounting to a total of 90 credits.

Post Graduate Diploma
Postgraduate Diploma candidates will be assessed on the basis of written examinations and successful completion of the Research Methodology and Engineering Project modules. M.Sc. candidates will, in addition, completed a substantial research project and submit a dissertation of approximately 30,000 words.

Degree Awards
1) The pass mark for all elements is 50%. The overall mark for the programme is the credit-weighted average of the mark awarded for each module. To pass the taught modules students must achieve an overall average mark on taught modules of at least 50% and pass taught modules amounting to 50 ECTS credits. In the event a student has failed up to 10 ECTS of

taught modules it may be possible to "pass by compensation". To "pass by compensation" a student must (i) achieve an overall credit-weighted average mark of at least 50% AND (ii) achieve a pass mark in taught modules carrying a minimum of 40 credits AND (iii) obtain a module mark of at least 40% in any remaining module(s).

2) Students who have failed the taught modules (by virtue of not achieving the overall average mark of 50% and/or not passing taught modules amounting to 50 ECTS credits) may be re-assessed within the academic year with the agreement of the course coordinator. Re-assessment is only available for failed modules amounting to 20 ECTS where at most 15 ECTS of modules were failed in any one semester and none of these modules could have been compensated according to regulations in 1) above.

3) Different modalities of assessment are permitted in the reassessment session as determined by the programme. The same compensation regulations apply to reassessed modules as outlined in 1) above.

4) To qualify for the award of the MSc degree, students must submit a dissertation and achieve a pass mark in both the CE7M03 Dissertation module and the taught modules.

5) In order to qualify for a Masters with Distinction, students must as a minimum a) pass all taught modules, b) achieve a final overall average mark for the programme of at least 70% and c) achieve a mark of at least 70% in the CE7M03 Dissertation module.

6) A Distinction cannot be awarded if a candidate has failed any credit during the programme.

The National Framework of Qualifications (QQI)

The National Framework of Qualifications is a 10 – level system used to describe qualifications in the Irish education and training system.

Level 9 is typically considered postgraduate education as entry is reserved for those with undergraduate qualifications.

Major Awards

Masters Degree – there are two types of Masters Degree in Ireland: taught Masters Degrees and research Masters Degrees. The taught Masters Degree is awarded following the completion of an accredited programme of one to two years' duration (60 -120 ECTS credits). Entry to a programme leading to a taught Masters Degree is typically for holders of Honours Bachelor Degrees. In some cases, entry to the programme is permitted for people with extensive experience in a relevant area.

The Irish Masters Degree is compatible with completion of the Bologna Second Cycle.

3.5 Programme Structure and Workload

In your studies you should aim to work a minimum of 50 hours per week. With a timetabled schedule of about 25 hours per week, this means you should be planning independent study of at least 25 hours per week. This includes reading course material prior to lectures – you should not expect to be given all the module material in the lectures and tutorials. The table below details the modules, credit value and co-ordinator.

Module	Module Title	ECTS	Co-ordinator
Mandatory Modules			
CE7M01	Civil Engineering Management	10 ECTS	John Gallagher
CE7M04	Engineering Project	5 ECTS	John Gallagher
CE7M05	Research Methods	5 ECTS	Mohammad Reza Ghaani
CE7M03	Dissertation	30 ECTS	Your supervisor
Semester 1 modules			
CE7C05	Advanced Spatial Analysis Using GIS	5 ECTS	Patrick Morrisey
CEP55E03	Air Pollution: Monitoring, Assessment & Control	5 ECTS	John Gallagher
CE7E04	Waste Management and Energy Recovery	5 ECTS	Liwen Xiao
CE7E07	Sustainable Water Supply and Sanitation	5 ECTS	Laurence Gill
CE7J02	Solar Energy Conversion and Applications	5 ECTS	Sarah McCormack

CE7J04	Energy Policy and Demand	5 ECTS	Sarah McCormack
CE7S02	Advanced Computation for Structures	5 ECTS	Dermot O'Dwyer
CE7S03	Wind and Earthquake Engineering	5 ECTS	John Hickey
CE7S09	Advanced Theory of Structures	5 ECTS	Breiffni Fitzgerald
CE7T01	Transportation Policy	5 ECTS	Bidisha Ghosh
CE7T02	Transport Modelling and Planning	5 ECTS	Brian Caulfield
Semester 2 Modules			
CE7E05	Water Quality and Hydrological Modelling	5 ECTS	Laurence Gill
CE7E06	Water Resource Planning and Climate Change	5 ECTS	David O'Connell
CE7J01	Wind Energy	5 ECTS	Breiffni Fitzgerald
CE7J06	Wave Energy	5 ECTS	Biswajit Basu
CE5A62	Structures II [Advanced Design of Structures]	5 ECTS	Dermot O'Dwyer
CE7S01	Geotechnical Engineering	5 ECTS	Brendan O'Kelly
CE7S04	Bridge Engineering	5 ECTS	Alan O'Connor
CE7S06	Offshore Geotechnical Engineering	5 ECTS	David Igoe
CE7S07	A Unified Theory of Structures	5 ECTS	Roger West
CE7T04	Intelligent Transportation Systems	5 ECTS	Bidisha Ghosh

CE7T05	Transport Design	5 ECTS	Margaret O'Mahony
CEP55E05	Civil Engineering Materials	5 ECTS	Sara Pavia
CEP55E06	Groundwater and Pollution Control	5 ECTS	David O'Connell
EEP55C23	Computation for Transportation Engineering	5 ECTS	Biswajit Basu
EEP55C24	Simulations for Geophysical Modelling	5 ECTS	Biswajit Basu

Reference/Source:

[Policy on Trinity Virtual Learning Environment](#)

3.6 Postgraduate Taught Research Models

The model(s) for PGT research components selected by the course director for the programme should be outlined in the programme handbook. More than one model may be employed per course but generally Model 1 is the accepted model for the MSc in Engineering..

Click or tap here to enter text

Reference/Source:

[5 Model Framework for Postgraduate Taught Research](#)

3.7 Learning Outcomes

This course aims to develop engineers with specialist understanding in one of the areas: Environmental Engineering; Structural and Geotechnical Engineering; Transport and Planning Engineering; or Sustainable Energy Engineering. In addition, the course offers students the opportunity to obtain knowledge in complementary subject areas within the Civil Engineering

Discipline.

Success on the course is strongly linked to study skills. While each individual has a different style of learning, the following points will help you do well on the course.

1. **Work steadily**
   Successful students take a serious and committed attitude to their subject from the first day of the course. Last minute rushes to meet deadlines and panic cramming invariably decreases the quality of learning.

2. **Review all teaching promptly and thoughtfully**
   Most effective learning takes place outside the lecture theatre. It is advisable to go through lecture notes as soon as possible after each lecture, even if only a few minutes are spent for each lecture. Compare what has been heard and discussed with the information in the reference and recommended texts. Consider the information and distinguish between learning single facts and understanding the subject matter. The lecturer will be happy to clarify any queries that may arise at the next lecture or personally, by appointment, at a later date.

3. **Attend regularly**
   No lecturer is likely to explain material in a lecture a second time to someone who was absent the first time. Failure to attend lectures will be reflected in the marks for the relevant assessment.

4. **Plan your time carefully**
   It maybe helpful to draw up a schedule of commitments: reviewing lectures, preparing laboratory reports, essays and exam revision. An estimate should be made of how much time will be needed for each task, working backwards form each deadline to find out when the next task should be started.

5. **Working with colleagues**
   Working with a few colleagues in a group will often help everyone to learn effectively. For example, it maybe necessary to set time aside each day to review lecture notes together. Working together may help with your personal discipline, while discussing a subject often clarifies many of the issues and concepts involved. **However, it should be pointed out that working together is not the same as copying another person's work. Copying another person's work is considered as plagiarism.**

Plagiarism is considered as a major offence, and subject to the disciplinary procedures of the University. More information about plagiarism can be found in the Calendar, Part III, General Regulations & Information, section 67:
https://www.tcd.ie/calendar/graduate-studies-higher-degrees/complete-part-III.pdf

A link to the Library Guidelines for Avoiding Plagiarism, https://libguides.tcd.ie/friendly.php?s=plagiarism

Declaration text for submitted assignments: https://libguides.tcd.ie/plagiarism/declaration

3.8 Module Descriptors & Compulsory Reading Lists

Module Descriptors:

Mandatory modules
CE7M01   Civil Engineering Management (10 credits)
CE7M03   Research Dissertation (30 credits)
CE7M04   Engineering Project (5 credits)
CE7M05   Research Methods (5 credits)

Environmental Engineering
CEP55E03   Air Pollution: Monitoring, Assessment and Control (5 credits)
CE7E04   Waste Management and Energy Recovery (5 credits)
CE7E05   Water Quality and Hydrological Modelling (5 credits)
CE7E06   Water Resource Planning and Climate Change (5 credits)
CE7E07   Sustainable Water Supply and Sanitation (5 credits)
CEP55E06   Groundwater and Pollution (5 credits)

Structural and Geotechnical Engineering
CE7S01   Geotechnical Engineering (5 credits)
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CE7S03   Wind and Earthquake Engineering (5 credits)
CE7S04   Bridge Engineering (5 credits)
CE7S06   Offshore Geotechnical Engineering (5 credits)
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CE7S09   Advanced Theory of Structures (5 credits)
CE5A62   Structures II [Advanced Design of Structures] (5 credits)
CEP55E05   Civil Engineering Materials (5 credits)

Sustainable Energy
CE7J01   Wind Energy (5 credits)
CE7J02   Solar Energy Conversion and Applications (5 credits)
CE7J04   Energy Policy and Energy Storage (5 credits)
CE7J06   Wave Energy (5 credits)

Transport Engineering, Policy and Planning
CE7T01   Transportation Policy (5 credits)

CE7T02   Transportation Modelling and Planning (5 credits)

CE7T04   Intelligent Transportation Systems (ITS) (5 credits)

CE7T05   Transport Design (5 credits)

Common

CE7C05   Advanced Spatial Analysis using GIS (5 credits)

EEP55C23 Computation for Transportation Engineering

EEP55C24 Simulations for Geophysical Modelling

Selection of Modules

An important decision that you will have to make early in the programme, is which optional modules you are going to take examinations in. **You must confirm which module options you are taking in both the first and second semesters by completing the form and submit it by Friday, 20th September 2024.** You will not have access to modules on blackboard or in your student portal until you have registered your selection as instructed here.

Selection of Research Project for M.Sc. Dissertation

The MSc Dissertation is a very important part of the MSc programme. It allows the students to carry out in-depth research about a topic and to carry out laboratory/field/numerical work.

In the first semester, a list of possible projects will be compiled by the academic staff and distributed to the MSc class. The students will be requested to choose a project in their specialisation (Environmental / Structural and Geotechnical / Sustainable Energy / Transport, Policy and Planning) for their MSc Dissertation, having discussed and agreed beforehand with the relevant supervisor.

Students are also welcome to suggest their own topics for projects and they may proceed with these projects once a suitable supervisor has been found from the academic staff. **The students must confirm which research project they are taking for their MSc dissertation by Wednesday, 2nd October 2024**. The students should contact their potential supervisors to discuss the research projects as soon as possible, these will be issued on a first come basis.

3.9 Coursework Requirements

Assignments and coursework should be submitted on-line on the module blackboard page within the deadline as instructed by the module or coursework co-ordinator.

Policy on late submission

Coursework and assessment is an essential part of a student's learning to reinforce aspects of module content. For all years (JS/SS/MAI/MSc) and ALL modules within the Discipline of Civil, Structural and Environmental Engineering, late submissions maybe penalized.

Policy on participation in continuous assessment-based modules

Students who are absent from a third of their lectures, tutorials or labs of a continuous assessment-based module or who fail to submit a third of the required coursework will be deemed non-satisfactory. Students reported as non-satisfactory for both semesters' of a given year maybe refused permission to take their examinations and maybe required by the Senior Lecturer to repeat the year.

Accessible Information Policy

Trinity College Dublin is committed to a policy of equal opportunity in education, and to ensuring that students and staff have a complete and equitable access to all facets of College life as can reasonably be provided.

This document constitutes the current [Accessible Information Policy](#) of Trinity College Dublin published in conformity with the requirements of the Disability Act 2005, Universities Act, 1997, the Employment Equality Act, 1998 (as amended) and Equal Status Acts, 2000 (as amended). Further details of the legislative context are referenced in Appendix 1.

Reference/Source:

[**Student Learning Development**](#)

[**Accessible Information Polic**y](#)

3.10 Marking Scale

The following descriptors are given as a guide to the qualities that assessors are seeking in relation to the grades usually awarded. A grade is the anticipated degree class based on consistent performance at the level indicated by an individual answer. In addition to the criteria listed examiners will also give credit for evidence of critical discussion of facts or evidence.

Mark Range	Criteria
90-100	IDEAL ANSWER; showing insight and originality and wide knowledge. Logical, accurate and concise presentation. Evidence of reading and thought beyond course content. Contains particularly apt examples. Links materials from lectures, practicals and seminars where appropriate.
80-89	OUTSTANDING ANSWER; falls short of the 'ideal' answer either on aspects of presentation or on evidence of reading and thought beyond the course. Examples, layout and details are all
70-79	MAINLY OUTSTANDING ANSWER; falls short on presentation and reading or thought beyond the course but retains insight and originality typical of first class work.
65-69	VERY COMPREHENSIVE ANSWER; good understanding of concepts supported by broad knowledge of subject. Notable for synthesis of information rather than originality. Sometimes with evidence of outside reading. Mostly accurate and logical with appropriate examples. Occasionally a lapse in detail.
60-64	LESS COMPREHENSIVE ANSWER; mostly confined to good recall of coursework. Some synthesis of information or ideas. Accurate and logical within a limited scope. Some lapses in

55-59	SOUND BUT INCOMPLETE ANSWER; based on coursework alone but suffers from a significant omission, error or misunderstanding. Usually lacks synthesis of information or ideas. Mainly logical and accurate within its limited scope and with lapses in detail.
45-49	WEAK ANSWER; limited understanding and knowledge of subject. Serious omissions, errors and misunderstandings, so that answer is no more than adequate.
40-44	VERY WEAK ANSWER; a poor answer, lacking substance but giving some relevant information. Information given may not be in context or well explained but will contain passages and
35-39	MARGINAL FAIL; inadequate answer, with no substance or understanding, but with a vague knowledge relevant to the question.
30-34	CLEAR FAILURE; some attempt made to write something relevant to the question. Errors serious but not absurd. Could also be a sound answer to the misinterpretation of a question.
0-29	UTTER FAILURE; with little hint of knowledge. Errors serious and absurd. Could also be a trivial response to the misinterpretation of a question.

Guidelines on Marking Projects/Dissertation Assessment

Mark Range	Criteria
90-100	Exceptional project report showing broad understanding of the project area and exceptional knowledge of the relevant literature. Exemplary presentation and analysis of results, logical organisation and ability to critically evaluate and discuss results coupled with insight and novelty/originality. Overall an exemplary project report of publishable quality (e.g. peer reviewed scientific journal/patent application).
80-89	An excellent project report clearly showing evidence of wide reading far above that of an average student, with excellent presentation and in-depth analysis of results. Clearly demonstrates an ability to critically evaluate and discuss research findings in the context of relevant literature. Obvious demonstration of insight and novelty/originality. An excellently executed report overall of publishable quality (e.g. short peer reviewed conference paper such as IEEE) with very minor shortcomings in some aspects.
70-79	A very good project report showing evidence of wide reading, with clear presentation and thorough analysis of results and an ability to critically evaluate and discuss research findings in the context of relevant literature. Clear indication of some insight and novelty/originality. A very competent and well-presented report overall but falling short of excellence in some aspects. Sufficient quality and breadth of work similar to the requirements for an abstract at an international scientific conference.

60-69	A good project report which shows a reasonably good understanding of the problem and some knowledge of the relevant literature. Mostly sound presentation and analysis of results but with occasional lapses. Some relevant interpretation and critical evaluation of results, though somewhat limited in scope. General standard of presentation and organisation adequate to good.
50-59	A moderately good project report which shows some understanding of the problem but limited knowledge and appreciation of the relevant literature. Presentation, analysis and interpretation of the results at a basic level and showing little or no novelty/originality or critical evaluation. Insufficient attention to organisation and presentation of the report.
40-49	A weak project report showing only limited understanding of the problem and superficial knowledge of the relevant literature. Results presented in a confused or inappropriate manner and incomplete or erroneous analysis. Discussion and interpretation of result severely limited, including some basic misapprehensions, and lacking any novelty/originality or critical evaluation. General standard of presentation poor.
20-39	An unsatisfactory project containing substantial errors and omissions. Very limited understanding, or in some cases misunderstanding of the problem and very restricted and superficial appreciation of the relevant literature. Very poor, confused and, in some cases, incomplete presentation of the results and limited analysis of the results including some serious errors. Severely limited discussion and interpretation of the results revealing little or no ability to relate experimental results to the existing literature. Very poor overall standard of presentation.

3.11 Attendance Requirements

Please note that attendance at lectures, tutorials and laboratory sessions is mandatory as is the submission of all work subject to continuous assessment. Regarding online teaching, attendance is mandatory at live lectures, tutorial and labs. Pre-recorded lectures should be viewed at the allocated slot on the timetable. Students who prove lacking in any of these elements may be issued with a Non-Satisfactory form and asked for an explanation for their poor attendance or performance. Students who do not provide a satisfactory explanation can be prevented from sitting the annual examinations.

The College Calendar outlining the College Policy on attendance and related issues, please look at page 46: https://www.tcd.ie/calendar/graduate-studies-higher-degrees/section-III.pdf

Reference/Source:

Calendar Part III, Section I: General Regulations and Information, 'Attendance and Off-Books'; Section III 'Attendance, Registration, Extensions'; Section IV 'Attendance and Examinations'

3.12 Absence from Examinations

The following is an extract from the College Calendar outlining the College Policy on absence from Examinations:

11 Postgraduate students who consider that illness may prevent them from attending an examination (or any part thereof) should consult their medical advisor and request a medical certificate for an appropriate period. If a certificate is granted, it must be presented to the student's Programme Co-ordinator/Director within three days of the beginning of the period of absence from the examination. Such medical certificates must state that the student is unfit to sit examinations. Medical certificates will not be accepted in explanation for poor performance; where an examination has been completed, subsequent withdrawal is not permitted. Further details of procedures subsequent to the submission of medical certificates are available in programme handbooks or from Programme Co-ordinators/Directors.
12 Postgraduate students who consider that other grave cause beyond their control may prevent them from attending an examination (or any part thereof) must consult and inform their Programme Co-ordinator/Director. The Programme Coordinator/Director will then make representations to the Dean of Graduate Studies requesting that permission be granted for absence from the examination.
13 The acceptance of medical disability is entirely at the discretion of the Dean of Graduate Studies, who may ask for a report from the medical officers in charge of the Student Health Service. The report will be strictly confidential to the Dean of Graduate Studies.

Reference/Source:

[Calendar Part III, Section III: 'Examinations, Assessment and Progression'; Section IV: 'Attendance and Examinations'](#)

[Academic Policies](#)

3.13 External Examiner

Professor Bassam A Izzuddin, PhD, CEng, FIStructE, FREng
Professor of Computational Structural Mechanics
Department of Civil & Environmental Engineering
Imperial College London
London SW7 2AZ, United Kingdom

Professor Eoghan Clifford,
Eng-1035, Engineering Building,
Department of Civil Engineering,
University of Galway, University Road, Galway, Ireland

Reference/Source:

[Procedure for the Transfer of Students' Assessed Work to External Examiners](#)

3.14 Progression Regulations

21 The following regulations apply in all courses of study leading to the award of a Masters degree or Postgraduate Diploma.

Graduate students must obtain credit for each academic year of their course by satisfactory completion of course requirements as laid down in the relevant course handbook.

To qualify for the relevant postgraduate award, students must, as a minimum,

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

(ii) achieve a pass mark in all modules designated as non-compensatable in the course handbook, and

(iii) In the case of a Masters degree, achieve a pass mark in the research element or dissertation, and

Additional requirements for specific courses are laid down in the relevant course handbook.

Students failing to pass individual taught modules may present for supplemental examination or re-submit required work if and as provided for in the course regulations. Students who, following the supplemental examination or re-assessment, have failed to pass the requisite taught modules as provided for in the course regulations above will be deemed to have failed the course, and may apply to the relevant school for permission to repeat it.

Students on a Masters course who do not achieve a pass mark in the research element or dissertation but achieve a mark within the range of 40-49% (or 30-39%, where the pass mark is 29 40%) may make one application to the relevant school to repeat this section of their programme. Marks for a new submission will be capped at 50% (or 40 where the pass mark is 40%). Resubmitted research elements must be submitted before the next examination session at a date determined and published by the School. Alternatively, and where this is provided for in the Course regulations, such students may be awarded an associated Postgraduate Diploma.

A thesis Revision Fee will apply for repeated dissertations or research elements. As of May 2023, the fees applicable for EU and Non EU students in each Faculty are as follows:
AHSS: €1,853
HS: €2,174
STEM: €2,174

22 In order to qualify for the award of Masters with Distinction students must have not failed any component during the period of study and must as a minimum, either (i) achieve a final overall average mark for the course of at least 70% and a mark of at least 70% in the dissertation or research element, or (ii) achieve a mark of at least 70% in the dissertation or research element, and achieve 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 (normally 30 credits) each have a mark of at least 70%, or (iii) in courses in which the modules are assigned grades only, achieve a distinction in the dissertation or research element and distinctions in

modules amounting to at least half of the required credit for the taught element of the course.

23 In order to qualify for the award of Postgraduate Diploma with Distinction students must not have failed any component during the period of study and must as a minimum either 26 (a) achieve an overall credit-weighted average mark of at least 70% across all modules, or (b) 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 or (c) in courses in which the modules are assigned grades only, achieve the grade of distinction in individual modules which amount to at least half of the required credit for the Postgraduate Diploma.

The following information relates to all examination results:
 i. All postgraduate examination results are published anonymously under a student's registered number.
ii. Students who successfully complete their programme will have the qualification, where appropriate, awarded under their registered name and within grade.

References/Sources:

Calendar, Part III, Section III 'Examinations, Assessment and Progression' and 'Assessment and Progression Regulations'

National Framework for Qualifications

Trinity Courses

3.15 Awards
1) The pass mark for all elements is 50%. The overall mark for the programme is the credit-weighted average of the mark awarded for each module. To pass the taught modules students must achieve an overall average mark on taught modules of at least 50% and pass taught modules amounting to 50 ECTS credits. In the event a student has failed up to 10 ECTS of taught modules it may be possible to "pass by compensation". To "pass by compensation" a student must
    (i)   achieve an overall credit-weighted average mark of at least 50% AND
    (ii)   achieve a pass mark in taught modules carrying a minimum of 40 credits AND
    (iii) obtain a module mark of at least 40% in any remaining module(s).
2) Students who have failed the taught modules (by virtue of not achieving the overall average mark of 50% and/or not passing taught modules amounting to 50 ECTS credits) may be re-assessed within the academic year with the agreement of the course coordinator. Re-assessment is only available for failed modules amounting to 20 ECTS where at most 15 ECTS of modules were failed

in any one semester and none of these modules could have been compensated according to regulations in 1) above.

3) Different modalities of assessment are permitted in the reassessment session as determined by the programme. The same compensation regulations apply to reassessed modules as outlined in 1) above.

4) To qualify for the award of the MSc degree, students must submit a dissertation and achieve a pass mark in both the CE7M03 Dissertation module and the taught modules.

5) In order to qualify for a Masters with Distinction, students must as a minimum a) pass all taught modules, b) achieve a final overall average mark for the programme of at least 70% and c) achieve a mark of at least 70% in the CE7M03 Dissertation module.

6) A Distinction cannot be awarded if a candidate has failed any credit during the programme.

References/Sources:

National Framework for Qualifications

Trinity Courses

3.16 Professional and Statutory Body Accreditation (if applicable)

The integrated BAI/MAI/MSc in Engineering degree programmes' is professionally accredited by Engineers Ireland and meets the educational requirements for corporate membership of this professional institution and registration as a chartered engineer.

Further information can be found at: http://www.engineersireland.ie/Membership.aspx

3.17 Careers Information and Events

As a Trinity College Dublin student you have access to information, support and guidance from the professional team of Careers Consultants throughout your time at Trinity and for a year after you graduate.

The support offered includes individual career guidance appointments, CV and LinkedIn profile clinics and practice interviews. The Trinity Careers Service and the School of Engineering & Environment also hold an annual Careers Fair in October.
Which gives you the opportunity to find out about career prospects in a wide range of companies.. · Visit https://www.tcd.ie/Careers/for career and job search advice

Sign into MyCareer to book appointments, find information about vacancies and bursaries, and book your place on upcoming employer events.

Follow the service on Instagram for career news and advice @trinity.careers.service

FAIR	DATE	TIME	PLACE
Computing & Technology	Tuesday, 01st October	11:30AM – 2:30AM	Trinity Sports Hall
Engineering & Environment	Thursday, 10th October	11:30AM – 2:30AM	Trinity Sports Hall

3.18 Student Feedback and Evaluation

Student Evaluation

- Annual undergraduate module evaluation - administered at School/course office level. Schools have discretion to choose which type of evaluation best suits their needs and to design their own questions. Schools are required to report on the type of evaluation conducted for each module, how it communicated feedback to students and actions arising from the evaluation;
- Annual postgraduate taught course evaluation - evaluated on two occasions using agreed on-line template questionnaires - at the end of the taught component and at the time of submission of the dissertation. Faculty Offices are responsible for administering these surveys and on alternate years Schools may use other forms of evaluation at a local level.
- Trinity has developed a Procedure for the conduct of focus groups for student evaluation of modules and programmes. The Quality Office maintains a panel of trained focus group facilitators and notetakers. Schools and Disciplines can access the panel via the

Quality.Office@tcd.ie email. • Students surveys and focus groups are conducted as part of the programme review process. • Students are asked to pariticipate in meetings with Quality Reviewers.

Staff Evaluation

Staff surveys and focus groups are administered during Programme Reviews as a method of obtaining feedback.

References/Sources:

Student Evaluation and Feedback

Student Partnership Policy

Procedure for the conduct of Focus Groups for Student Feedback on Modules and Programmes

Trinity College Dublin
Coláiste na Tríonóide, Baile Átha Cliath
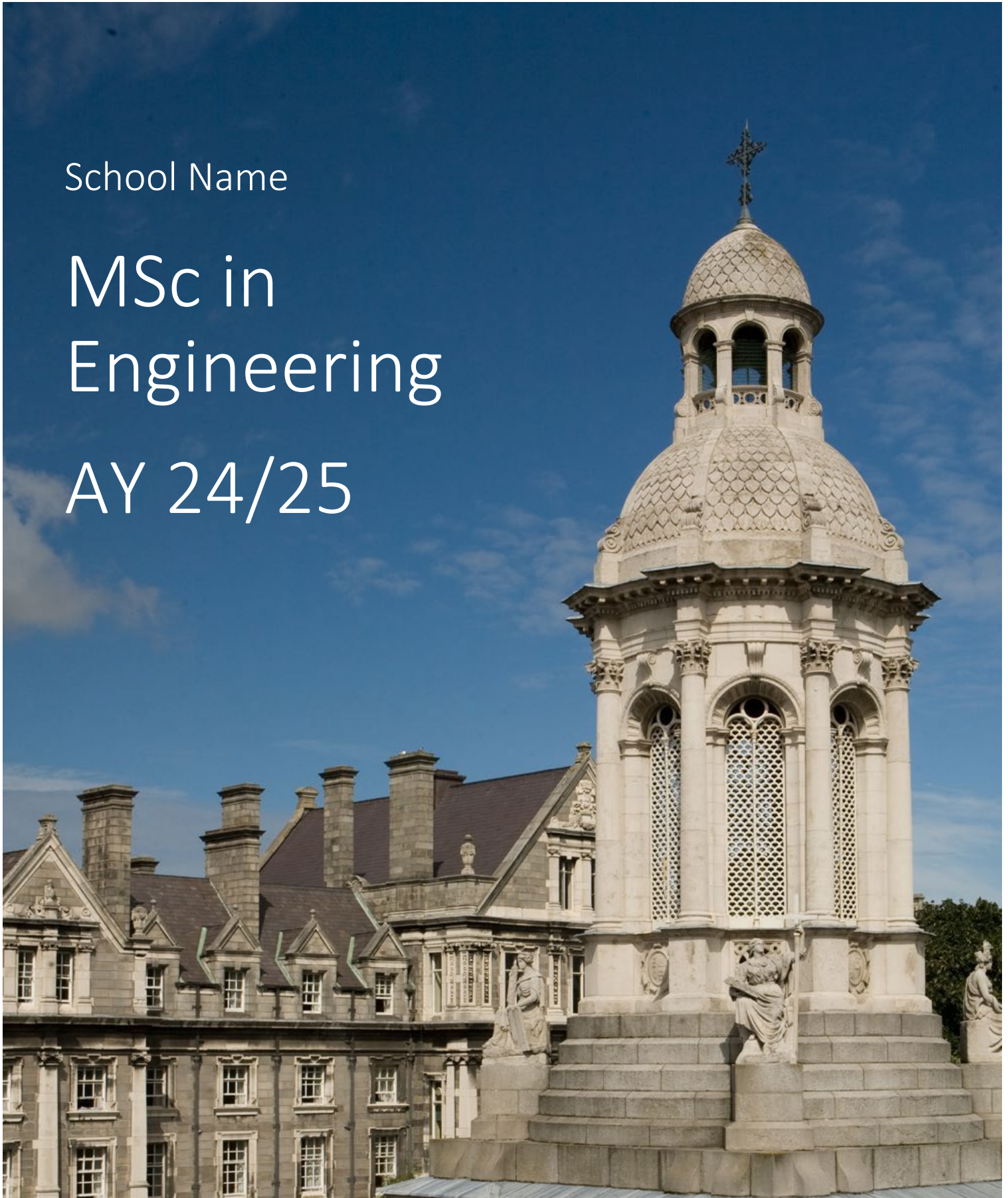### The University of Dublin

School Name

MSc in Engineering

AY 24/25

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Note: This document is a template for Schools/Disciplines. There may be additions/amendments appropriate to the needs of an individual School that reflect the local regulations of the School/Discipline and are in accordance with the Calendar.

1. GENERAL REGULATIONS

Standard Text: In the event of any conflict or inconsistency between the General Regulations published in the University Calendar and information contained in programme or local handbooks, the provisions of the General Regulations in the Calendar will prevail.

Reference/Source

Calendar

Calendar Part II, Part B: General Regulations and Information

Calendar Part III, Section 1: General Academic Regulations

2. STUDENT SERVICES

Student Services has developed the handbook (embedded below) outlining the support services provided to undergraduate and postgraduate students. The handbook and further information is available from their website and in the Student Services Handbook. School/Department Handbooks can provide a link to the PDF or embed the PDF within the Handbook itself.

Reference/Source: Student Supports & Services

Want to make the most of your student experience?

WWW.TCD.IE/ STUDENTS/ SUPPORTS-SERVICES

Administrative Support

Health and Wellbeing Support

Academic Support

Here to help!

Getting Involved

Financial Support

Trinity College Dublin
Coláiste na Tríonóide, Baile Átha Cliath
The University of Dublin

Supporting your student experience

Want to do better in your assignments?

WWW.TCD.IE/ STUDENTS/ SUPPORTS- SERVICES

Student Learning Development

Writing Skills
Presentation Skills
Exam Skills
Study Skills

Programming Help Centre

Maths Help Room

Here to help!

Language Learning Centre

Library

Library Skills
Plagiarism
Research Skills
Critical Thinking

English for Academic Purposes

Supporting your student experience

Trinity College Dublin
Coláiste na Tríonóide, Baile Átha Cliath
The University of Dublin

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Want to keep yourself well while you're studying?

WWW.TCD.IE/STUDENTS/SUPPORTS-SERVICES

Student Counselling

Mindfulness Monday
Wellbeing Wednesday
Support Groups
Counselling

Health Centre

GP service
Nurses
Physiotherapist
Emergency Clinics

Sport

Gym
Fitness Classes
Personal Trainers
Swimming Pool

Here to help!

Healthy Trinity

Healthy Eating
Smarter Travel
Sexual Health
Healthy habits

Chaplaincy

Christian Services
Prayer Rooms
Free lunch!

Student2 Student

Peer mentoring
Peer support

Supporting your student experience

Trinity College Dublin
Coláiste na Tríonóide, Baile Átha Cliath
The University of Dublin

Want to get involved outside the classroom?

WWW.TCD.IE/STUDENTS/SUPPORTS-SERVICES

Students' Union

Sabbatical Officers
Class Reps
Campaigns

Societies

120 Societies

Clubs

50 Sports Clubs

Here to help!

Volunteering

Entrepreneurship

Global Room

Supporting your student experience

Trinity College Dublin
Coláiste na Tríonóide, Baile Átha Cliath
The University of Dublin

Having cashflow problems?

WWW.TCD.IE/ STUDENTS/ SUPPORTS- SERVICES

Senior Tutor's Office

Student Assistance Funds
Benefactions
Waivers

Bursaries

Prizes

Here to help!

Scholarships

Exhibitions

Students' Union Welfare Loans

Supporting your student experience

Trinity College Dublin
Coláiste na Tríonóide, Baile Átha Cliath
The University of Dublin

2.1 Academic Support

Student Learning Development	http://student-learning.tcd.ie/
The Library	http://www.tcd.ie/library/
Maths Help Room	http://maths.tcd.ie/outreach/helproom/
Undergraduate Programming Centre	http://www.scss.tcd.ie/misc/psc/
Language Learning Centre	http://www.tcd.ie/slscs/clcs/llc/
English for Academic Purposes	https://www.tcd.ie/slscs/english/
Disability Service	http://www.tcd.ie/disability/
Careers Service	http://www.tcd.ie/Careers/

2.2 Health and Wellbeing Support

Student Counselling	http://www.tcd.ie/Student_Counselling/
Health Centre	http://www.tcd.ie/collegehealth/
Sport	http://www.tcd.ie/Sport/
Healthy Trinity	http://www.tcd.ie/healthytrinity/
Student2Student	http://student2student.tcd.ie/
Chaplaincy	http://www.tcd.ie/Chaplaincy/

2.3 Getting Involved

Students' Union	http://www.tcdsu.org/
Clubs	http://www.tcd.ie/Sport/student-sport/
Societies	http://trinitysocieties.ie/
Volunteering	http://www.tcd.ie/civicengagement/
Entrepreneurship/Tangent	http://www.tcd.ie/tangent/
Global Room	http://www.tcd.ie/study/international/trinity-life/global-room/

2.4 Financial Support

Senior Tutor's Office*	http://www.tcd.ie/seniortutor/students/undergradua te/financial-assistance/
Students' Union Welfare Loans	http://www.tcdsu.org/welfare/
Bursaries/Prizes (Undergraduate)	http://www.tcd.ie/calendar/undergraduate-studies/ (Part D: 11 - Prizes and other awards)
Bursaries/Prizes (Postgraduate)	https://www.tcd.ie/calendar/graduate-studies-higher-degrees/ (Section XI: Postgraduate Awards and Travel Funds)
Exhibitions	http://www.tcd.ie/calendar/undergraduate-studies/ (Part D: 8 - Entrance Awards)
Scholarships	http://www.tcd.ie/study/undergraduate/scholarships -funding/

**Remember, you can ask your Tutor for advice and guidance about anything and they will point you in the right direction

2.5 Administrative Support

Your Tutor	http://www.tcd.ie/seniortutor/
Postgraduate Advisory Service	http://www.tcd.ie/seniortutor/students/postgraduate
Academic Registry	http://www.tcd.ie/academicregistry/

2.6 Your Tutor

All registered full-degree undergraduate students are allocated a Tutor when starting in College. Your Tutor is a member of academic staff who is appointed to look after the general welfare and development of all students in their care.

You should see your Tutor whenever you have a question or are worried or concerned about any aspect of College life or your personal life, in particular if it is affecting your academic work. Everything you say to your Tutor is in strict confidence. Unless you give them permission to do so, they will not give any information to anybody else, whether inside College or outside (not to your parents/family for example). Your Tutor can help you only if they know you are facing difficulties, so if you are worried about anything go and see your Tutor before things get out of hand. Whilst your Tutor may not be able to solve the underlying problem, they can help you find the best way to limit the impact of your situation on your College work. Tutors can help with **academic advice, changing course, withdrawing from College, exam regulations, financial assistance and personal advice**.

2.7 Postgraduate Advisory Service

The [Postgraduate Advisory Service](#) offers free, independent, and confidential support, guidance and advocacy to registered postgraduate students. They are here to provide support on any matter that may impact upon your time as a postgraduate at Trinity.

Some of the most common issues students come to PAS to discuss include: study-related stress or worry; concerns about academic progress; supervisor-relationship concerns; extensions and going off-books; queries regarding regulations and academic appeals; bullying; plagiarism and disciplinary cases, financial assistance.

2.8 The Academic Registry
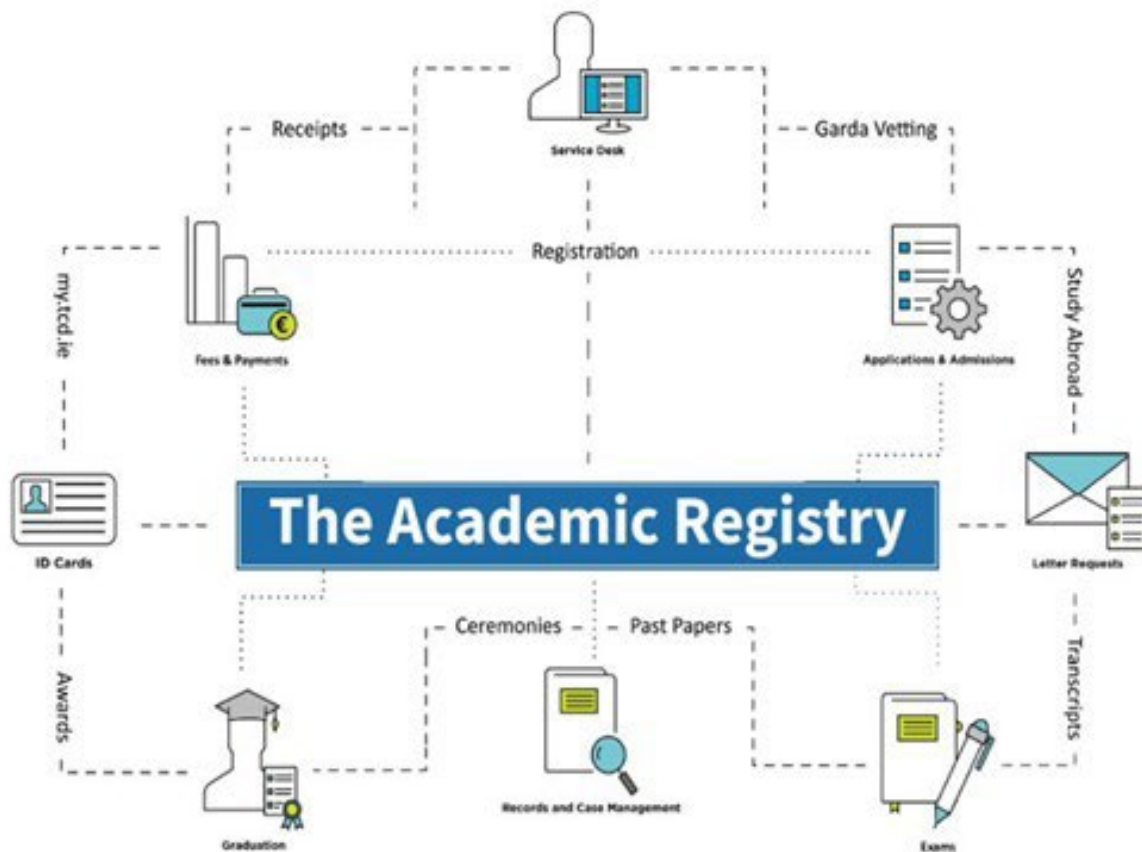
2.9 Information on key campus locations

You may include information on key campus locations relevant to your School's students.

Click or tap here to enter text.

Reference/Source

Student Supports & Services

Interactive College Map

2.10 Student Representation and Governance

Information on the TCDSU student representation structures are available at the following links:

TCDSU

TCDSU Student Representation Overview

2.11 Careers Information

Information on Careers for your students

Click or tap here to enter text.

References/Sources:

Trinity Careers Service

Careers - PG Focus

3. ACADEMIC WRITING

3.1 Academic Integrity and Referencing Guide

Standard Text to be copied from the Calendar with a link to the Academic Integrity Policy (currently in development) included.

A **link** to the Library Guidelines on Academic Integrity and a link to the declaration text for submitted assignments.

Should there be **local policy** on referencing or programme copy of the coversheet declaration, relevant links and/or details to inform students.

Click or tap here to enter text.

References/Sources:

[Calendar Part II, Part B: General Regulations](#)

[Calendar Part III, Section 1: General Academic Regulations](#)

[Statement of Principles on Integrity](#)

[Academic Integrity Policy (currently in development)](#)

[Library Guides – Academic Integrity](#)

[Coversheet Declaration](#)

3.2 Research Ethics

On relevant programmes, Schools should provide relevant links and information regarding good practice in research, as well as provide information on College and Faculty policies and procedures.

Click or tap here to enter text.

[Research Ethics](#)

[Policy on Good Research Practice](#)

[Ethics Policy](#)

4. GENERAL INFORMATION

4.1 Emergency Procedure

In the event of an emergency, **dial Security Services on Extension 1999**

Security Services provide a 24-hour service to the College community, 365 days a year. They are the liaison to the Fire, Garda and Ambulance services and all staff and students are advised to always telephone Extension 1999 (+353 1 896 1999) in case of an emergency.

Should you require any emergency or rescue services on campus, you must contact Security Services. This includes chemical spills, personal injury or first aid assistance.

It is recommended that all students save at least one emergency contact in their phone under ICE (In Case of Emergency).

It is also recommended that students download the SafeZone app to access alerts for closures in inclement weather, etc.

4.2 Health and Safety Statements

Applicable information relating to health and safety in the classroom, laboratories, or other locations as relevant

Click or tap here to enter text.

4.3 Data Protection

Information on Data Protection regarding your student data is available from:

Data Protection for Student Data

4.4 Explanation of ECTS Weighting

The European Credit Transfer and Accumulation System (ECTS) is an academic credit system based on the estimated student workload required to achieve the objectives of a module or programme of study. It is designed to enable academic recognition for periods of study, to facilitate student mobility and credit accumulation and transfer. The ECTS is the recommended credit system for higher education in Ireland and across the European Higher Education Area.

The ECTS weighting for a module is a measure of the student input or workload required for that module, based on factors such as the number of contact hours, the number and length of written or verbally presented assessment exercises, class preparation and private study time, laboratory classes, examinations, clinical attendance, professional training placements, and so on as appropriate. There is no intrinsic relationship between the credit volume of a module and its level of difficulty.

The European norm for full-time study over one academic year is 60 credits. Within Undergraduate courses 1 credit represents 20-25 hours estimated student input, so a 10-credit

module will be designed to require 200-250 hours of student input including class contact time, assessments and examinations. Within Postgraduate courses, 1 credit represents 25 hours estimated student input, so a 10-credit module will be designed to require 200-250 hours of student input including class contact time, assessments and examinations.

ECTS credits are awarded to a student only upon successful completion of the programme year. Progression from one year to the next is determined by the programme regulations. Students who fail a year of their programme will not obtain credit for that year even if they have passed certain component. Exceptions to this rule are one-year and part-year visiting students, who are awarded credit for individual modules successfully completed.

Reference/Source**:**

[Description of ECTS for use in Course Handbooks](#)

4.5 Links to Further University Policies and Procedures

The following are links of where to find further information on University regulations, policies, and procedures that you may find useful as a student:

[All Academic Policies](#)

[Student Complaints Procedure](#)

[Dignity & Respect Policy](#)

[Equality Policy](#)