



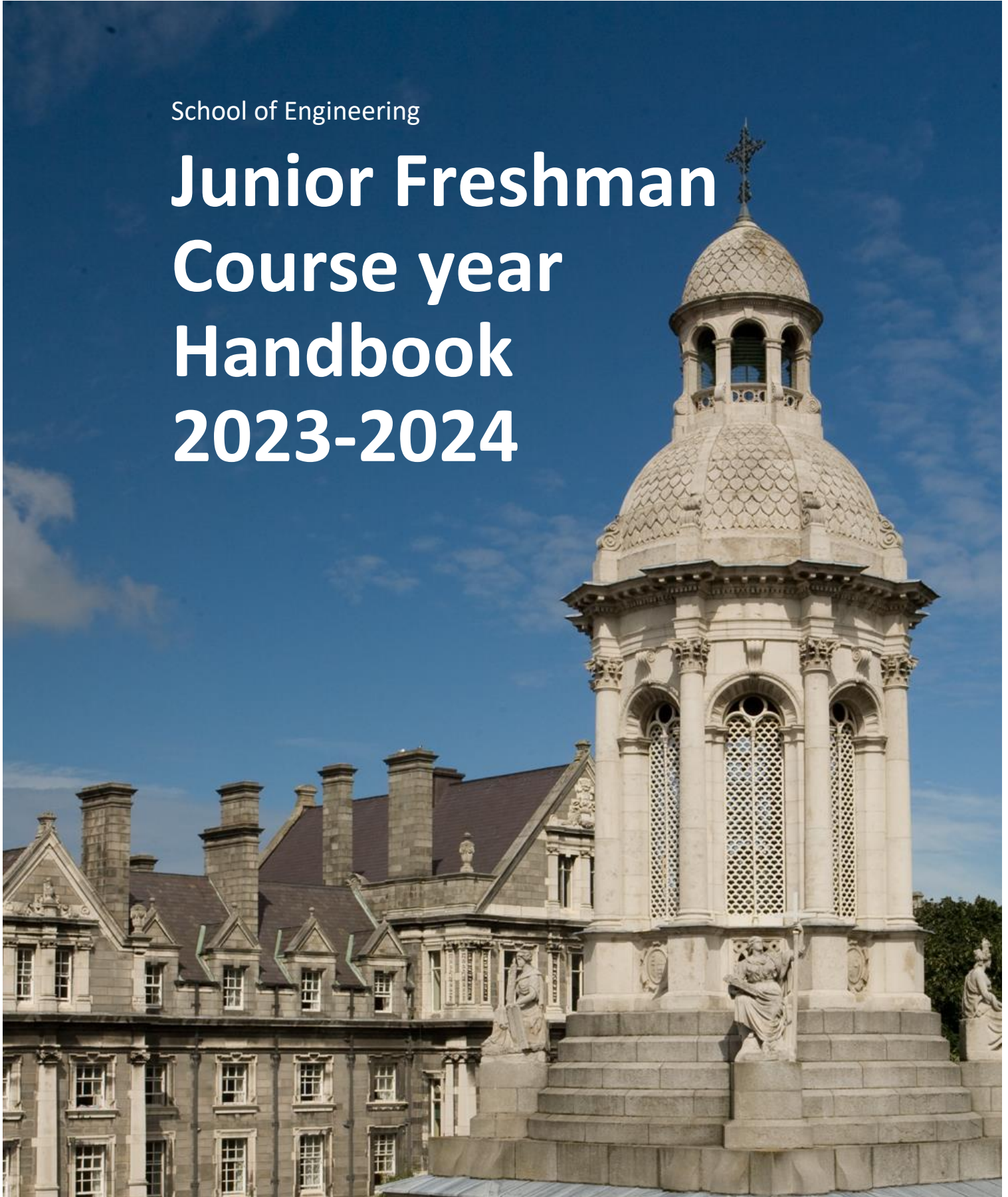
Trinity College Dublin

Coláiste na Tríonóide, Baile Átha Cliath

The University of Dublin

School of Engineering

# Junior Freshman Course year Handbook 2023-2024



# Contents

## 1 Introduction

## 2 Contacts

### 2.1 Coordinator

### 2.2 Administrative contacts

### 2.3 Academic contacts

## 3 Key Dates

### 3.1 Academic year calendar

### 3.2 Teaching weeks

### 3.3 Exam dates

### 3.4 Project submission dates

### 3.5 Coursework submission dates

## 4 Key Locations

## 5 Timetable

## 6 Programme Overview

### 6.1 Engineering course structure

### 6.2 Award routes

### 6.3 Eligibility for MAI

### 6.4 Eligibility for Internship and Study Abroad

### 6.5 School of Engineering Examination Regulations

## 7 Programme Learning Outcomes

## 8 Graduate Attributes

## 9 General Programme Information

### 9.1 Modules and module descriptors

### 9.2 Laboratories

### 9.3 Coursework requirements

## 10 Prizes and Scholarship

- 10.1 Foundation Scholarship
- 10.2 Prizes
- 11 Health and safety
- 12 Student Supports
  - 12.1 Tutors
  - 12.2 Student Counselling Service
  - 12.3 College Health Service
  - 12.4 Chaplaincy
  - 12.5 Trinity Disability Service
  - 12.6 Niteline
  - 12.7 Students' Union Welfare Officer
  - 12.8 Maths Help Room
  - 12.9 Undergraduate Programming Centre
  - 12.10 Student Learning Development
  - 12.11 Student 2 Student (S2S)
  - 12.12 Trinity Careers Service
  - 12.13 Co-curricular activities
  - 12.14 Trinity College Students' Union
- 13 General Regulations
  - 13.1 Attendance requirements
  - 13.2 Absence from examinations
  - 13.3 Plagiarism
  - 13.4 University regulations, policies and procedures
  - 13.5 Data protection
- 14 General Information
  - 14.1 Feedback and evaluation
  - 14.2 European Credit Transfer System (ECTS)
  - 14.3 Guidelines on grades

#### 14.4 Emergency procedure

**Note:**

Alternative formats of the handbook can be made available on request.

All students are encouraged to fully familiarise themselves with college rules and general regulations which can be found here:

[https://www.tcd.ie/calendar/undergraduate-studies/general-regulations-and- information.pdf](https://www.tcd.ie/calendar/undergraduate-studies/general-regulations-and-information.pdf)

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.

# 1. Introduction

You are very welcome to the TCD School of Engineering, an institution rich in tradition and progressive in outlook. The School was founded in 1841 and is one of the oldest Engineering Schools in the English speaking world. The Baccalaureus in Arte Ingeniaria (B.A.I.) degree was established in 1872 and early graduates played a major role in the development of local government services and infrastructure in 19th century Ireland, whilst others contributed as far a field as India, Australia, Africa and Japan. In addition to many famous engineers, the list of graduates includes landscape artist Nathaniel Hone, and songwriter Percy French. Well-known graduates of more recent vintage include Patrick Prendergast (current Provost of Trinity), Chris Horn of Iona Technologies, John Maguire of Trintech and Paul Noonan of Bell X1 fame.

In joining the engineering community, you will be making a creative contribution to making the world a more liveable place and to building economic prosperity. The core philosophy of the B.A.I./M.A.I. degrees is to first establish the basic principles common to all aspects of engineering. Thus, all students follow a common programme for the first two 'freshman' years followed by two 'sophister' years of specialisation in the different branches of engineering if they wish to take the B.A.I. degree and three years of specialisation if they go on to M.A.I. level. Admission to the M.A.I. level is subject to performance in the Junior Sophister and Senior Sophister years, see the [School Examination Regulations](#). The M.A.I. is a professional degree accredited by [Engineers Ireland](#) and is recognised across the world through international agreements.

While there is a strong focus on technical content and problem solving in the syllabus, personal skills such as communication and teamwork are an integral part of your education. These skills are crucial in promoting an approach to lifelong learning, and this is particularly important in the dynamic context of engineering. The curriculum is revised on an ongoing basis and we hope that you will find it stimulating and intellectually rewarding. You will be given the opportunity to provide us with considered feedback of your experience during each year of your studies.

The College, of course, has a great deal to offer besides the formal academic programme, including the cultural, recreational and sporting activities of the many student clubs and societies. You are strongly encouraged to participate in the breadth of College life in a balanced way. It is up to you to make the most of your Trinity experience.

Finally, be aware that College offers a wide range of support services. If you are experiencing problems or need to seek advice (personal, financial, health, career or academic), there are a number of sources of help available: these are listed in Section 15 of this booklet. Do not hesitate to call on these services should the need arise. Each of you has been allocated a tutor, and he/she is an excellent resource to help you with identifying relevant support services.

We wish you a successful and enjoyable first year at University.

Professor Alan O'Connor  
Head of School  
School of Engineering

Professor Kevin Kelly  
Acting Director of Undergraduate Teaching & Learning  
School of Engineering

## **2. Contacts**

### **2.1 Coordinator**

Director of Undergraduate Teaching and Learning  
Dr Kevin Kelly  
Phone: +353 1 896 1465  
E-mail: [kekelly@tcd.ie](mailto:kekelly@tcd.ie)

### **2.2 Administrative contacts**

#### **School of Engineering, First Floor, Museum Building**

##### **School Manager**

Ms Patricia Hughes  
Phone: +353 1 896 1796  
E-mail: [pahughes@tcd.ie](mailto:pahughes@tcd.ie)

##### **Undergraduate/Postgraduate Enquiries**

Ms Donncha Millane  
Phone: +353 1 896 1746  
E-mail: [millaned@tcd.ie](mailto:millaned@tcd.ie)

##### **Finance Officer**

Ms Sara Doherty  
Phone: +353 1 896 3792  
E-mail: [sdoherty@tcd.ie](mailto:sdoherty@tcd.ie)

##### **Global Officer**

Ms Choe O'Connor  
E-mail: [InternationalEng@tcd.ie](mailto:InternationalEng@tcd.ie)

##### **Executive Officer/General Enquiries**

Ms Sarah O'Brien  
Phone: +353 1 896 1142  
E-mail: [obries57@tcd.ie](mailto:obries57@tcd.ie)

##### **Internship Coordinator and Industry Liaison Officer**

Ms Sarah O'Brien  
Phone: +353 1 896 1142  
E-mail: [obries57@tcd.ie](mailto:obries57@tcd.ie)

**Department of Civil, Structural and Environmental Engineering, First Floor, Museum Building**

**Senior Executive Officer**

Mr. George Oatridge  
Phone: +353 1 896 2217  
Email: [oatridgg@tcd.ie](mailto: oatridgg@tcd.ie)

**Executive Officer**

Ms. Mary Curley  
Phone: +353 1 896 1457  
Email: [curleyma@tcd.ie](mailto: curleyma@tcd.ie)

**Department of Mechanical and Manufacturing Engineering, Ground Floor, Parsons Building**

**Senior Executive Officer**

Ms. Judith Lee  
Phone: +353 1 896 1383  
Email: [julee@tcd.ie](mailto: julee@tcd.ie)

**Executive Officers**

Ms. Nicole Byrne  
Phone: +353 1 896 1837  
Email: [nbyrne3@tcd.ie](mailto: nbyrne3@tcd.ie)

Ms. Melissa Caffrey  
Phone: +353 1 896 3667  
Email: [caffrem@tcd.ie](mailto: caffrem@tcd.ie)

## **Department of Electronic and Electrical Engineering, First Floor, Printing House**

### **Executive Officer**

Mr. Michael O’Riordan  
Phone: +353 1 896 1558  
Email: [oriordmi@tcd.ie](mailto:oriordmi@tcd.ie)

### **Executive Officer**

Ms Caroline Murphy  
Email: [murphc49@tcd.ie](mailto:murphc49@tcd.ie)

## **School of Computer Science and Statistics, O’Reilly Institute**

### **School Administrative Manager**

Ms. Olivia Lombard  
Phone: 353 1 896 1097  
Email: [olivia.lombard@scss.tcd.ie](mailto:olivia.lombard@scss.tcd.ie)

### **Administrative Officer**

Ms. Lynn Daly  
Phone: +353 1 8961524  
Email: [lynn.daly@scss.tcd.ie](mailto:lynn.daly@scss.tcd.ie)

### **Administrative Officer**

Ms. Hannah Archbold  
Phone: + 353 1 896 1768  
Email: [Hannah.archbold@tcd.ie](mailto:Hannah.archbold@tcd.ie)

## **Academic Registry**

All enquiries regarding forms, letters, student fees, examinations, registration etc. to be directed to the Academic Registry:

Log an enquiry via ASK AR on the [my.tcd.ie](http://my.tcd.ie) portal

- Via email at [academic.registry@tcd.ie](mailto:academic.registry@tcd.ie)
- Via phone at 4500 [for students] or 4501 [for staff]



## 2.3 Academic contacts

Staff name	Email	Location
Head of School Professor Alan O'Connor	oconnoaj@tcd.ie	Simon Perry Building
Director of Undergraduate Teaching and Learning Assistant Professor Kevin Kelly	kekelly@tcd.ie	Aras an Phiarsaigh
Head of Civil Structural and Environmental Engineering Associate Professor Brian Caulfield	Brian Caulfield	Museum Building
Head of Mechanical and Manufacturing Engineering Professor Stephen Spence	spences@tcd.ie	Parsons Building
Head of Electronic and Electrical Engineering Professor Anil Kokaram	Anil.kokaram@tcd.ie	Aras an Phiarsaigh
Stream Coordinator -Biomedical Engineering Professor Bruce Murphy	murphb17@tcd.ie	Parsons Building
Stream Coordinator – Mechanical Engineering Professor Seamus O' Shaughnessy	oshaugse@tcd.ie	Parsons Building
Stream Coordinator – Engineering with Management Professor Daniel Trimble	dtrimble@tcd.ie	Parsons Building

### **3. Key dates**

#### **3.1 Academic year calendar**

[Calendar - Trinity College Dublin \(tcd.ie\)](https://www.tcd.ie/Calendar)

#### **3.2 Teaching weeks**

First semester: Monday, 12th September, 2023 to Friday, 1st December 2023

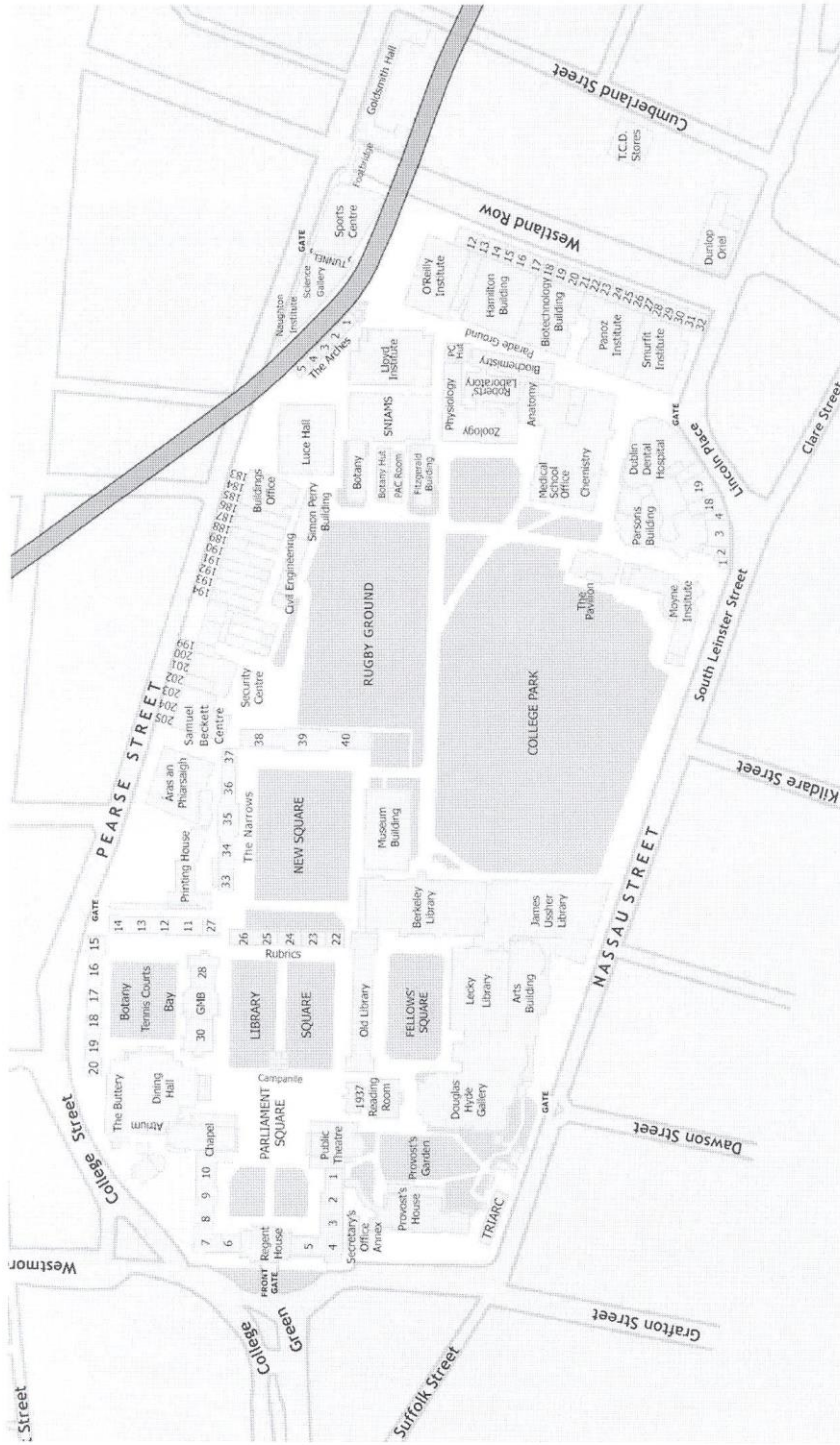
Second semester: Monday, 23rd January, 2024 to Friday, 12th April 2024

#### **3.3 Exam dates**

### **3.4 Coursework submission dates**

To be updated

# 4. Key Locations

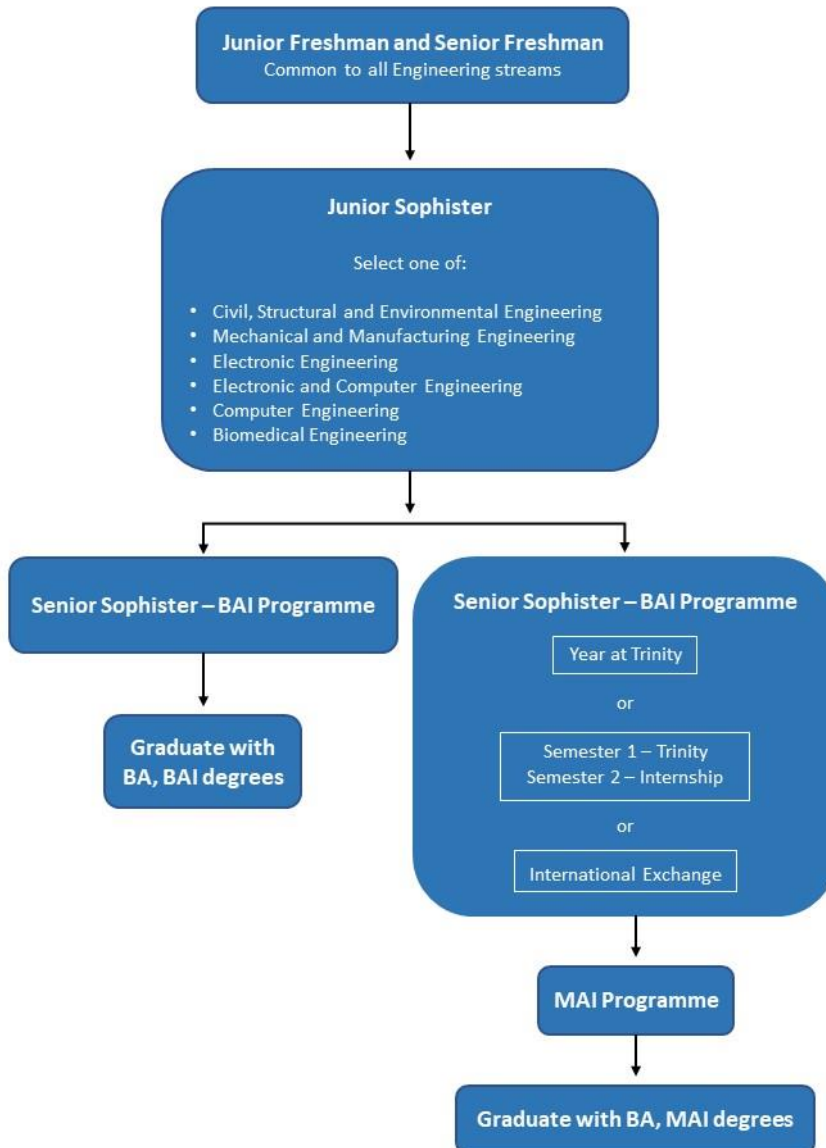


ns

## 5. Timetable

## 6. Programme overview

### 6.1 Engineering course structure



The integrated BAI/MAI degree programme 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>

## 6.2 Award routes

Students who complete the third year by examination and who choose not to proceed to or fail to complete satisfactorily the fourth year of the Engineering or Engineering with Management course may elect to be conferred with the ordinary degree of B.A. (this is **NOT** a B.A. in Mathematics).

Those Engineering students who exit the course having obtained credit for years one to four of the course are entitled to the degrees of B.A. and B.A.I. The B.A.I. degree award is based on an overall average mark calculated by combining the average mark achieved in the Junior Sophister examinations (30% towards overall average) and the Senior Sophister examinations (70% towards overall average).

Students who have obtained credit for all five years of the course are entitled to the degrees of B.A. and M.A.I. (St.).

## 6.3 Eligibility for MAI

Note: students must pay a tuition fee for the MAI year:

<https://www.tcd.ie/academicregistry/fees-and-payments/>

- Students must achieve a minimum overall mark of 60% for the combined Junior Sophister and Senior Sophister years (on a 30:70 basis) at the annual session of the B.A.I. / B.Sc. degree year.

## **6.4 Eligibility for Internship and study abroad**

In order to be eligible to apply for an international exchange in the Senior Sophister year or to apply for the 4E4 Industrial Partnership/Internship module in the second semester of the Senior Sophister year, students must have a minimum grade of II.1 (60 – 69%) at the first sitting of the Junior Sophister Engineering examinations. Those required to sit supplemental Junior Sophister Engineering examinations will be deemed ineligible to apply. No exceptions to this rule will be considered.

Study abroad opportunities can be viewed here:

<https://www.tcd.ie/Engineering/international/outgoing/>

Information on taking an internship can be viewed here:

<https://www.tcd.ie/Engineering/undergraduate/baiyear4/modules/4E04.pdf>

## **6.5 School of Engineering Examination Regulations**

[https://www.tcd.ie/Engineering/undergraduate/pdf/ExaminationRules\\_1920.pdf](https://www.tcd.ie/Engineering/undergraduate/pdf/ExaminationRules_1920.pdf)

## **7. Programme learning outcomes**

The programme learning outcomes for the Engineering and Engineering with Management programmes have been developed to ensure that all the attributes required of a professional engineering degree programme are achieved. Every five years our programmes are reviewed for accreditation by Engineers Ireland. This process ensures that each of the approximately fifty required programme outcomes is achieved. These learning outcomes vary from general outcomes in mathematics and science to communications, design, professional ethics, research and group work. As a student progresses through the programme the learning outcomes become more demanding until final year students are capable of undertaking independent research and dealing with ill-defined complex problems.



## 8. Graduate Attributes

Throughout their time at Trinity, our students will be provided with opportunities to develop and evidence achievement of a range of graduate attributes that support their academic growth. Graduate attributes can be achieved in academic and co- and extra-curricular activities. The Engineering School has been to the fore in embracing the Trinity Education Project and our programmes ensure that all our students achieve the Trinity Student Attributes.

## 9. General programme information

### 9.1 Modules and module descriptors

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 coordinator.

Course Code	Module Title	ECTS	Semester	Coordinator
MAU11E01	Engineering Mathematics I	5	Semester 1	Patrick Fritzsch
MAU11E02	Engineering Mathematics II	5	Semester 2	Pierre- Yves Bienvenu
CSU11E03	Computer Engineering I	5	Semester 2	Lucy Hederman
PYU11E04	Physics	5	Semester 2	Stefan Hutzler
CHU11E05	Chemistry	5	Semester 1	Richard Hobbs
EEU11E06	Electrical Engineering	5	Semester 2	Arman Farhang
CEU11E07	Mechanics	5	Semester 2	Dermot O'Dwyer
MEU11E08	Introduction to Engineering	5	Semester 1	Khurshid Ahmed
CEU11E09	Engineering Design I: Graphics and CAE		Semester 2	John Hickey
MEU11E14	Experimental Methods	5	Semester 1	John Kennedy

<b>MEU11E12</b>	Engineering Materials and Their Applications	10	Semester 1	Declan O'Loughlin
-----------------	--	----	------------	-------------------

Module descriptors are available at the following link:

<https://www.tcd.ie/Engineering/undergraduate/baiyear1/>

## 9.2 Laboratories

Certain modules in JF have laboratory experiments attached to them. Students are expected to keep a log book recording the details of every experiment performed and to write a technical report about each experiment. Each student is required to submit her/his report neatly presented and by the date specified to avoid penalty. Guidelines as to the required length and format of each report will be specified by the lecturer concerned.

Laboratory groups and timetable will be published at the beginning of the semester. Please note that you must attend the particular laboratory sessions to which you have been assigned. Students cannot swap sessions because of the complexity of the timetable, the large numbers in the year and the limited accommodation available.

A no show at a lab results in a zero mark even if a report is submitted. No report submitted means a zero mark even if the lab was attended. Labs cannot be taken in the summer/autumn periods if missed during the year.

**Laboratory Timetables:** Laboratory timetables will be forwarded to students via email and posted on the noticeboards in Parsons Building

## **9.3 Coursework requirements**

### **9.3.1 Submission guidelines**

Please pay attention to the guidelines for submission. These may vary from module to module. Ensure that you submit on time and, where appropriate, that your submission has been logged. It is good practice to keep a digital copy of your submissions.

The work you submit must be your own. College has very strict guidelines concerning plagiarism. Please ensure you read Section 13.3 of this handbook.

### **9.3.2 Policy on late submission**

Coursework and assessment is an essential part of a student's learning to reinforce aspects of module content. You are enrolled on an accredited professional programme and are expected to submit work on time. Submitting work late is a habit you should avoid. It is never too early in your career to start to plan your work so you meet your deadlines. Late submissions delay feedback and in group work you risk incurring a penalty on the other members of your group.

Late submissions may be penalised or not accepted. Submission dates may be extended in exceptional and extenuating circumstances. In such circumstances, students must apply directly (via email) to the module coordinator requesting an extension and provide an explanation and/or evidence for such (e.g. medical cert). Please note that the module coordinator reserves the right to refuse granting of an extension.

### **9.3.3 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 may be refused permission to take their examinations and may be required by the Senior Lecturer to repeat the year.

Further details of the procedure for reporting a student as non-satisfactory can be viewed on the [College Undergraduate Studies](#) website.

## **10 Prizes and Scholarships**

### **10.1 Foundation Scholarship**

Foundation Scholarship is a College institution with a long history and high prestige. The objective of the Foundation Scholarship examination is to identify students who, at a level of evaluation appropriate to the Senior Freshman year, can consistently demonstrate exceptional knowledge and understanding of their subjects. The questions that are asked in the engineering scholarship exams are very challenging. They test a student's ability to think laterally, to solve unfamiliar problems and to tackle problems from first principles. Although the syllabi for the scholarship exams and the end of year exams are the same, the nature of the questions in the scholarship exams is more challenging. A good scholarship question will require a creative leap or a deep insight of the fundamental principles. The most important skill that is developed in an engineering education is problem solving. The most difficult problems to solve are those that are unfamiliar, that require a fundamental understanding of the basic principles and that require the student to make a creative or innovative leap.

### **10.2 Prizes**

#### **BOOK PRIZES**

A prize of a book token to the value of €13 is awarded to candidates who obtain a standard equivalent to an overall first class honors grade (70% and above) at the first attempt of the semester 1 and semester 2 assessment. Book Prizes will be available

for collection in November of the following academic year from the Academic Registry. These prizes are issued in the form of book tokens and can be redeemed at Hodges Figgis and Co. Ltd.

#### MARMADUKE BACKHOUSE PRIZES

These prizes were founded in 1937 by a bequest from Mrs Alice Backhouse. They are awarded annually after the annual examination of the first year of the B.A.I. degree examination to students with the highest aggregate of marks. No mark below a pass mark being counted in computing the total.

The prizes are paid in two equal instalments, the first in July following the award, and the second at the end of Hilary term of the following year. Payment of the second instalment is dependent on the Dean of the Faculty being satisfied as to the student's progress in the second year of the course. Not more than three prizes will be awarded annually. Value, first prize €2,500, second prize €1,500, third prize €500.

#### E.R. STUART PRIZE IN ENGINEERING

This prize, established in 1982 from funds subscribed by colleagues to mark Mr E. R. Stuart's retirement, is awarded to the first year engineering student who is judged by the School of Chemistry to have given the best performance in the first year engineering chemistry module of that year. Value, €200.

#### VICTOR W. GRAHAM PRIZES

These prizes, founded in 1986 from funds subscribed by friends and pupils to mark Mr V.W. Graham's retirement, are awarded to the first year engineering student who obtains the highest marks in engineering mathematics (modules 1E1 and 1E2) at the annual class examination and to the second year engineering student who obtains the highest mark in engineering mathematics (modules 2E1 and 2E2) at the regular annual class examination. Value, first year prize €750, second year prize €1,000.

#### ANITA NEWELL SCHOLARSHIPS

These prizes were founded in 2007 by a bequest from Ms Anita Newell, a former employee of the School of Engineering. They are awarded annually in the first and second

years of the Bachelor in Engineering course to the best and second best female engineering student i.e. those achieving the highest and second-highest average of marks at the annual examinations (foundation scholarship candidates are eligible for these scholarships). Value: first year engineering – first place €3,000, second place €2,000; second year engineering – first place €6,000, second place €4,000.

## **11. Health and Safety**

We operate a 'safe working environment' policy and we take all practical precautions to ensure that hazards or accidents do not occur. We maintain safety whilst giving you the student very open access to facilities. Thus safety is also your personal responsibility and it is your duty to work in a safe manner. By adopting safe practices you ensure both your own safety and the safety of others.

Please read the following Safety Documents for working practices in the Departments of Mechanical and Manufacturing Engineering:

<https://www.tcd.ie/engineering/assets/documents/SchoolSafetyStatement2022.pdf>

and in the Department of Electronic and Electrical Engineering:

<https://www.tcd.ie/engineering/assets/documents/SchoolSafetyStatement2022.pdf>

If you are working in Trinity Centre for Bioengineering Laboratories in Trinity Biomedical Sciences Institute, please contact Mr Simon Carroll, Senior Technical Officer at [scarrol6@tcd.ie](mailto:scarrol6@tcd.ie) to complete necessary Health and Safety paperwork prior to completing any laboratory work.

Please ensure you comply with the instructions given in these important documents. Failure to behave in a safe manner may result in you being refused the use of departmental facilities.

## **12. Student Supports**

Trinity College provides a wide range of [personal and academic supports](#) for its students.

### **12.1 Tutors**

A tutor is a member of the academic staff who is appointed to look after the general welfare and development of the students in his or her care. Whilst your tutor may be one of your lecturers, the role of tutor is quite separate from the teaching role. Tutors are a first point of contact and a source of support, both on arrival in college and at any time during your time in college. They provide confidential help and advice on personal as well as academic issues or on anything that has an impact on your life. They will also, if necessary, support and defend your point of view in your relations with the college. If you cannot find your own tutor, you can contact the Senior Tutor (tel: 01 896 2551). Senior Tutor's website: <https://www.tcd.ie/seniortutor/>

### **12.2 Student Counselling Service**

The Student Counselling Service, 3rd Floor, 7-9 South Leinster Street, College.

Opening hours: 9:15 am to 5:10 pm Monday to Friday during lecture term.

Tel: 01 896 1407

Email: [student-counselling@tcd.ie](mailto:student-counselling@tcd.ie)

Web: [http://www.tcd.ie/Student\\_Counselling](http://www.tcd.ie/Student_Counselling).

### **12.3 College Health Service**

The Health Centre is situated on Trinity Campus in House 47, a residential block adjacent to the rugby pitch.

Opening hours: 09.00 - 16.40 with emergency clinics from 09.00 - 10.00.

Tel: 01 896 1591 or 01 896 1556

Web: <https://www.tcd.ie/collegehealth/>

## **12.4 Chaplaincy**

The Chaplains are representatives of the main Christian Churches in Ireland who work together as a team, sharing both the college chapel and the chaplaincy in House 27 for their work and worship.

Steve Brunn (Anglican Chaplain): [brunns@tcd.ie](mailto:brunns@tcd.ie); tel: 01 896 1402

Julian Hamilton (Methodist Chaplain): [julian.hamilton@tcd.ie](mailto:julian.hamilton@tcd.ie); tel: 01 896 1901

Alan O'Sullivan (Catholic Chaplain): [aeosulli@tcd.ie](mailto:aeosulli@tcd.ie); tel: 01 896 1260

Peter Sexton (Catholic Chaplain): [sextonpe@tcd.ie](mailto:sextonpe@tcd.ie); tel: 01 896 1260

Web: <https://www.tcd.ie/Chaplaincy/>

## **12.5 Trinity Disability Service**

Declan Treanor, Disability Services Coordinator

Room 3055, Arts Building

Email: [mdtreanor@tcd.ie](mailto:mdtreanor@tcd.ie)

Tel: 01 896 3475

Web: <https://www.tcd.ie/disability/>

## **12.6 Niteline**

A confidential student support line run by students for students which is open every night of term from 9pm to 2.30am.

Tel: 1800 793 793

Web: <https://niteline.ie/>

## **12.7 Students' Union Welfare Officer**

House 6, College

Email: [welfare@tcdsu.org](mailto:welfare@tcdsu.org)

Web: <https://www.tcdsu.org/welfare>

## **12.8 Maths Help Room**



The Maths Help Room offers free assistance to students who are having difficulty with Mathematics, Statistics or related courses. It runs every week of term and at certain times out of term. The Maths help-room is a drop in centre, where you can bring in a maths or stats question and get some help.

The Helproom is located in the New Seminar Room in House 20 in the School of Mathematics in the Hamilton Building.

Web: [https://www.maths.tcd.ie/Info for Schools/Maths Helproom.php](https://www.maths.tcd.ie/Info_for_Schools/Maths_Helproom.php)

### **12.9 Undergraduate Programming Centre**

The Programming Centre is available to all Computer Engineering students free of charge. The centre operates as a drop-in service where you can get help with any problems you might have with programming in your courses. For further information, please visit <http://www.scss.tcd.ie/ugpc/>.

### **12.10 Student Learning Development**

Student Learning Development provides learning support to help students reach their academic potential. They run workshops, have extensive online resources and provide individual consultations. To find out more, visit their website at <https://student-learning.tcd.ie/>.

### **12.11 Student 2 Student (S2S)**

S2S offers trained Peer Supporters for any student in the College who would like to talk confidentially with another student, or just to meet a friendly face for a chat. This service is free and available to everyone. To contact a Peer Supporter you can email [student2student@tcd.ie](mailto:student2student@tcd.ie). Web: <https://student2student.tcd.ie/peer-support/>.

### **12.13 Trinity Careers Service**

As a Trinity College Dublin student you have access to information, support and guidance from the professional team of expert Careers Consultants throughout your time at Trinity. The support offered includes 'next step' career guidance appointments, CV and LinkedIn profile clinics and practice interviews. The Trinity Careers Service and the School of Engineering also hold an annual Careers Fair in October which gives students the opportunity to find out about career prospects in over fifty companies.

Web: <https://www.tcd.ie/Careers/>

### **12.14 Co-curricular activities**

Trinity College has a significant number of diverse student societies which are governed by the Central Societies Committee. They provide information on the societies including how to get involved and even how to start your own society. See <http://trinitysocieties.ie/> for more details. Students are encouraged to get involved.

Trinity College also has a huge range of sports clubs which are governed by the Dublin University Athletic Club (DUCAC). See [http://www.tcd.ie/Sport/student-sport/ducac/?nodeId=94&title=Sports\\_Clubs](http://www.tcd.ie/Sport/student-sport/ducac/?nodeId=94&title=Sports_Clubs) for more details.

### **12.15 Trinity College Students' Union**

The Trinity College Students' Union (TCDSU) is run for students by students. TCDSU represent students at college level, fight for students' rights, look after students' needs, and are here for students to have a shoulder to cry on or as a friend to chat with over a cup of tea. Students of Trinity College are automatically members of TCDSU. It has information on accommodation, jobs, campaigns, as well as information pertaining to education and welfare. For more information see <https://www.tcdsu.org/>.

## 13. General Regulations

### 13.1 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. 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 following is an extract from the College Calendar outlining the College policy on attendance and related issues:

*18 Students must attend College during the teaching term. They must take part fully in the academic work of their class throughout the period of their course. Lecture timetables are published through my.tcd.ie and on school or department notice-boards before the beginning of Michaelmas teaching term. The onus lies on students to inform themselves of the dates, times and venues of their lectures and other forms of teaching by consulting these timetables.*

*19 The requirements for attendance at lectures and tutorials vary between the different faculties, schools and departments. Attendance is compulsory for Junior Freshers in all subjects. The school, department or course office, whichever is relevant, publishes its requirements for attendance at lectures and tutorials on notice-boards, and/or in handbooks and elsewhere, as appropriate. For professional reasons lecture and tutorial attendance in all years is compulsory in the School of Engineering, the School of Dental Science, the School of Medicine, the School of Nursing and Midwifery, the School of Pharmacy and Pharmaceutical Sciences, for the B.S.S. in the School of Social Work and Social Policy, and for the B.Sc. in Clinical Speech and Language Studies. Attendance at practical classes is compulsory for students in all years of the moderatorship in drama and theatre studies and drama studies two-subject moderatorship.*

*20 In special circumstances exemption from attendance at lectures for one or more terms may be granted by the Senior Lecturer; application for such exemption must be made in advance through the tutor. Students granted exemption from attendance at lectures are liable for the same annual fee as they would pay if attending lectures. Students thus exempted must perform such exercises as the Senior Lecturer may require. If these exercises are specially provided, an additional fee is usually charged.*

*21 Students who in any term have been unable, through illness or other unavoidable cause, to attend the prescribed lectures satisfactorily, may be granted credit for the term by the Senior Lecturer and must perform such supplementary exercises as the Senior Lecturer may require. The onus for informing the Senior Lecturer of illness rests with individual students who should make themselves familiar with the general and more detailed school or course regulations regarding absence from lectures or examinations through illness. In addition, issues with students may arise from time to time, which in the opinion of the Senior Lecturer affect a student's ability or suitability to participate in his or her course. If required by the Senior Lecturer, students (other than those subject to §28 below) are obliged to undergo a medical examination or assessment by a doctor or specialist nominated by the Senior Lecturer at the expense of the College for the purpose of obtaining an opinion as to the student's medical fitness to continue with his/her studies or as to his/her ability or suitability to participate in his/her course to the standards required by the College. Students found to be unfit following such a medical examination or assessment may be required to withdraw until such times as they are deemed fit to resume their studies. Students who fail to attend such a medical examination or assessment within a reasonable period may be required by the Senior Lecturer to withdraw until such time as they attend the aforementioned medical examination or assessment and are deemed fit to resume their studies.*

*22 Students who are unable to attend lectures (or other forms of teaching) due to their disability should immediately contact the Disability Service to discuss the matter of a reasonable accommodation. Exceptions to attendance*

*requirements for a student, on disability grounds, may be granted by the Senior Lecturer following consultation with the student's school, department or course office, and the Disability Service.*

*23 Students who find themselves incapacitated by illness from attending lectures (or other forms of teaching) should immediately see their medical advisor and request a medical certificate for an appropriate period. Such medical certificates should be copied to the school, department or course office, as appropriate, by the student's tutor.*

#### *Course work*

*24 Students may be required to perform course work as part of the requirements of their course of study. The assessment of course work may be based on the writing of essays, the sitting of tests and assessments, attendance at practical classes and field trips, the keeping and handing in of practical books, the carrying out of laboratory or field projects, and the satisfactory completion of professional placements. The school, department or course office, whichever is appropriate, publishes its requirements for satisfactory performance of course work on school notice-boards and/or in handbooks and elsewhere, as appropriate.*

#### *Non-satisfactory attendance and course work*

*25 All students must fulfil the course requirements of the school or department, as appropriate, with regard to attendance and course work. Where specific requirements are not stated, students may be deemed non-satisfactory if they miss more than a third of their course of study or fail to submit a third of the required course work in any term.*

*26 At the end of the teaching term, students who have not satisfied the school or department requirements, as set out in §§19, 24 and 25 above, may be reported as non-satisfactory for that term. Students reported as non-satisfactory for the Michaelmas and Hilary terms of a given year may be refused permission to take their annual examinations and may be required by the Senior*

Lecturer to repeat their year. Further details of procedures for reporting a student as non-satisfactory are given on the College website at:

<https://www.tcd.ie/undergraduate-studies/academic-progress/attendance-course-work.php>

### **13.2 Absence from examinations**

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

*35 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 tutor within three days of the beginning of the period of absence from the examination. The tutor must immediately forward the certificate to the Senior Lecturer. Medical certificates must state that the student is unfit to sit examinations. Medical certificates will not be accepted in explanation for poor performance.*

*(a) Where a student becomes ill prior to the commencement of the annual examination, they may seek permission through their tutor from the Senior Lecturer to withdraw and take the supplemental examination in that year.*

*(b) Where illness prevents a student from completing any part of the annual examination and they withdraw from the examination, permission may be given for a supplemental examination to be taken in that year.*

*(c) Where illness occurs during the writing of an examination paper, it should be reported immediately to the chief invigilator. The student will then be escorted to the College Health Centre. Every effort will be made to assist the student to complete the writing of the examination paper.*

*Students who consider that other grave cause beyond their control may prevent them from attending an examination (or any part thereof) should consult their tutor who should make representations immediately to the Senior Lecturer that*

*permission be granted for absence from the examination. Regulations (a) and (b) also apply in the case of absence from annual examinations due to other grave cause beyond a student's control.*

*Regulations (a) and (b) apply only to examinations which are non-final non- degree examinations. However, regulations (a) and (b) apply in all years of those professional courses which permit supplemental examinations in final or degree years.*

### **13.3 Plagiarism**

In the academic world, the principal currency is *ideas*. As a consequence, you can see that *plagiarism* – i.e. passing off other people's ideas as your own– *is tantamount to theft*. It is important to be aware the plagiarism can occur knowingly or unknowingly, and the offence is in the action not the intent.

Plagiarism is a serious offence within College and the College's policy on plagiarism is set out in a central online repository hosted by the Library which is located at <http://tcd- ie.libguides.com/plagiarism>. This repository contains information on what plagiarism is and how to avoid it, the College Calendar entry on plagiarism and a matrix explaining the different levels of plagiarism outlined in the Calendar entry and the sanctions applied.

Undergraduate and postgraduate new entrants and existing students, are required to complete the online tutorial '**Ready, Steady, Write**'. Linked to this requirement, all cover sheets which students must complete when submitting assessed work, must contain the following declaration:

**I have read and I understand the plagiarism provisions in the General Regulations of the University Calendar for the current year, found at:**

<http://www.tcd.ie/calendar>

I have also completed the Online Tutorial on avoiding plagiarism 'Ready, Steady, Write', located at <http://tcd-ie.libguides.com/plagiarism/ready-steady-write>

Plagiarism detection software such as "Turnitin" and Blackboard's "SafeAssign" may be used to assist in automatic plagiarism detection. Students are encouraged to assess their own work for plagiarism prior to submission using this or other software.

### **13.4 University regulations, policies and procedures**

Academic Policies - <https://www.tcd.ie/teaching-learning/academic-policies/>

Student Complaints Procedure - [https://www.tcd.ie/about/policies/160722\\_Student%20Complaints%20Procedure\\_PUB.pdf](https://www.tcd.ie/about/policies/160722_Student%20Complaints%20Procedure_PUB.pdf)

Dignity and Respect Policy - <https://www.tcd.ie/equality/policy/dignity-respect-policy/>

### **13.5 Data protection**

A short guide on how College handles student data is available here: [https://www.tcd.ie/info\\_compliance/data-protection/student-data/](https://www.tcd.ie/info_compliance/data-protection/student-data/)

## **14. General Information**

### **14.1 Feedback and evaluation**

The Staff/Student Liaison Committee meets once a semester to discuss matters of interest and concern to students and staff. It comprises class representatives from each year. A programme level survey is issued online to students towards the end of semester 2.

### **14.2 European Credit Transfer System (ECTS)**

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 effort 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. 1 credit represents 20-25 hours estimated student effort, so a 5- credit module will be designed to require 100-125 hours of student effort 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.

### **14.3 Guidelines on Grades**

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.

## Guidelines on Grades for Essays and Examination Answers

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 sound.
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 detail tolerated.
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.
50-54	INCOMPLETE ANSWER; suffers from significant omissions, errors and misunderstandings, but still with understanding of main concepts and showing sound knowledge. Several 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 words which indicate a marginally adequate understanding.
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
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
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.

0-19	<p>A very poor project report containing every conceivable error and fault. Showing virtually no understanding or appreciation of the problem and of the literature pertaining to it. Chaotic presentation of results, and in some cases incompletely presented and virtually non-existent or inappropriate or plainly wrong analysis. Discussion and interpretation seriously confused or wholly erroneous revealing basic misapprehensions.</p>
------	---

#### 14.4 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).