School of Engineering

C Stream
CD Stream
D Stream
Junior Sophister
Course Year Handbook
2019-2020
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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:


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

Welcome to the Junior Sophister (JS) specializations: Electronic, Electronic and Computer Engineering and Computer Engineering. As you will know by now, these are referred to as Stream C, Stream CD and Stream D respectively. The objective of the BAI degree offered by the Departments of Electronic and Electrical Engineering and Computer Science is to produce well-rounded graduates, having a strong grounding in analytical skills and the flexibility to adapt to the advances in electronic technology, computer systems and communications systems.

General Information and Contacts

General Regulations

The general regulations outlining academic behavior, performance and progression for undergraduate studies are outlined in detail in Section II of the College Calendar and can be found at: http://www.tcd.ie/calendar/undergraduate-studies/general-regulations-and-information.pdf
2. Contacts

2.1 Coordinator

Prof Nicola Marchetti, Dept. of Electronic & Electrical Engineering,
nicola.marchetti@tcd.ie

2.2 Administrative contacts

Michael O’Riordan, Executive Officer, Dept. of Electronic & Electrical Engineering,
Email: oriordmi@tcd.ie

2.3 Academic contacts

<table>
<thead>
<tr>
<th>Staff name</th>
<th>Email</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anil Kokaram</td>
<td><a href="mailto:Anil.kokaram@tcd.ie">Anil.kokaram@tcd.ie</a></td>
<td>Aras an Phiarsaigh 2.19</td>
</tr>
<tr>
<td>Luiz Da Silva</td>
<td><a href="mailto:dasilval@tcd.ie">dasilval@tcd.ie</a></td>
<td>Oriel House</td>
</tr>
<tr>
<td>Richard Reilly</td>
<td><a href="mailto:Richard.reilly@tcd.ie">Richard.reilly@tcd.ie</a></td>
<td>Oriel House</td>
</tr>
<tr>
<td>Martin Burke</td>
<td><a href="mailto:Martin.burke@tcd.ie">Martin.burke@tcd.ie</a></td>
<td>Aras an Phiarsaigh 2.23</td>
</tr>
<tr>
<td>Brian Foley</td>
<td><a href="mailto:Brian.foley@tcd.ie">Brian.foley@tcd.ie</a></td>
<td>Stack B</td>
</tr>
<tr>
<td>Dermot Furlong</td>
<td><a href="mailto:Dermot.furlong@tcd.ie">Dermot.furlong@tcd.ie</a></td>
<td>Stack B</td>
</tr>
<tr>
<td>Anthony Quinn</td>
<td><a href="mailto:Anthony.quinn@tcd.ie">Anthony.quinn@tcd.ie</a></td>
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</tr>
<tr>
<td>Naomi Harte</td>
<td><a href="mailto:nharte@tcd.ie">nharte@tcd.ie</a></td>
<td>Aras an Phiarsaigh 2.18</td>
</tr>
<tr>
<td>William Dowling</td>
<td><a href="mailto:liam.dowling@tcd.ie">liam.dowling@tcd.ie</a></td>
<td>Aras an Phiarsaigh 2.27</td>
</tr>
<tr>
<td>Edmund Lalor</td>
<td><a href="mailto:edlalor@tcd.ie">edlalor@tcd.ie</a></td>
<td>Lloyd Institute</td>
</tr>
<tr>
<td>Nicola Marchetti</td>
<td><a href="mailto:marchetn@tcd.ie">marchetn@tcd.ie</a></td>
<td>Oriel House</td>
</tr>
<tr>
<td>Francois Pitie</td>
<td><a href="mailto:pitief@tcd.ie">pitief@tcd.ie</a></td>
<td>Stack B</td>
</tr>
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</table>
3. Key dates

3.1 Academic year calendar

<table>
<thead>
<tr>
<th>Academic Year Calendar</th>
<th>2019/20 Academic Year Calendar</th>
<th>Term / Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>26-Aug-16: Assessment* (Semesters 1 &amp; 2)</td>
<td>1st Michaelmas Term begins/Semester 1 begins</td>
</tr>
<tr>
<td>2</td>
<td>02-Sep-16: Orientation (undergraduate), Marking/Results</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>09-Sep-16: Teaching and Learning</td>
<td>1st Michaelmas teaching term begins</td>
</tr>
<tr>
<td>4</td>
<td>16-Sep-16: Teaching and learning</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>23-Sep-16: Teaching and learning</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>30-Sep-16: Teaching and learning</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>07-Oct-16: Teaching and learning</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>14-Oct-16: Teaching and learning</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>21-Oct-16: Study/Review</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>29-Oct-16: Teaching and learning (Monday, Public Holiday)</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>06-Nov-16: Teaching and learning</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>13-Nov-16: Teaching and learning</td>
<td></td>
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<tr>
<td>13</td>
<td>20-Nov-16: Teaching and learning</td>
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</tr>
<tr>
<td>14</td>
<td>27-Nov-16: Teaching and learning</td>
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<tr>
<td>15</td>
<td>04-Dec-16: Teaching and learning</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>01-Jan-17: Revision*</td>
<td>3rd Hilary term begins</td>
</tr>
<tr>
<td>17</td>
<td>15-Jan-17: Teaching and learning</td>
<td>3rd Hilary term begins</td>
</tr>
<tr>
<td>18</td>
<td>22-Jan-17: Teaching and learning</td>
<td>3rd Hilary term begins</td>
</tr>
<tr>
<td>19</td>
<td>29-Jan-17: Teaching and learning</td>
<td>3rd Hilary term begins</td>
</tr>
<tr>
<td>20</td>
<td>05-Feb-17: Teaching and learning</td>
<td>3rd Hilary term begins</td>
</tr>
<tr>
<td>21</td>
<td>12-Feb-17: Teaching and learning</td>
<td>3rd Hilary term begins</td>
</tr>
<tr>
<td>22</td>
<td>19-Feb-17: Teaching and learning</td>
<td>3rd Hilary term begins</td>
</tr>
<tr>
<td>23</td>
<td>26-Feb-17: Teaching and learning</td>
<td>3rd Hilary term begins</td>
</tr>
<tr>
<td>24</td>
<td>05-Mar-17: Study/Review</td>
<td>3rd Hilary term ends</td>
</tr>
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</table>
3.2 Teaching weeks
Semester 1: 9th September to 29th November 2019
Semester 2: 20th January to 10th April 2020

3.3 Exam Dates
Semester 1 examinations: 9th to 13th December 2019*
Semester 2 examinations: 27th April to 1st May 2020*
Reassessment – Semesters 1 & 2: 24th to 28th August 2020*
*Note: extra contingency days may be required outside of the formal assessment/reassessment weeks

3.4 Submission Dates for Projects
These dates will be provided by individual lecturers in due course.

3.5 Coursework Submission Dates
These dates will be provided by individual lecturers in due course.
4. Key locations
5. Timetable

The timetable can be found at the following link:
https://www.tcd.ie/Engineering/undergraduate/pdf/JTImetable_CCDD.pdf

6. Programme overview

6.1 Engineering course structure

- Junior Freshman and Senior Freshman
  Common to all Engineering streams

- Junior Sophister
  Select one of:
  - Civil, Structural and Environmental Engineering
  - Mechanical and Manufacturing Engineering
  - Electronic Engineering
  - Electronic and Computer Engineering
  - Computer Engineering
  - Biomedical Engineering

- Senior Sophister – BAI Programme
  Graduate with BA, BAI degrees

- Senior Sophister – BAI Programme
  Year at Trinity
  or
  Semester 1 – Trinity
  Semester 2 – Internship*
  or
  International Exchange

- MAI Programme
  Graduate with BA, MAI degrees
* Students who take the internship and successfully complete the Senior Sophister year are eligible to exit with the BAI degree.

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 (20% towards overall average) and the Senior Sophister examinations (80% 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.).

Engineering with Management students who exit the course having obtained credit for years one to four of the course are entitled to the award of the degree of B.Sc. (Ing.). The B.Sc. degree award is based on an overall average mark calculated by combining the average mark achieved in the Junior Sophister examinations (20% towards overall average) and the Senior Sophister examinations (80% towards overall average).
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 20:80* basis) at the annual session of the B.A.I. / B.Sc. degree year.

* For 2018/19 entrants onwards the combined mark from the Junior Sophister and Senior Sophister years will be calculated on a 30:70 basis.

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:


6.5 School of Engineering Examination Regulations


6.6 External Examiner

The External Examiner has not yet been appointed, this information will be provided in due course.
7. Programme learning outcomes

At the end of the 5 year programme of Engineering in Trinity College the students are able to demonstrate the outcomes as specified by Engineers Ireland. These are as follows

(a) Demonstrate advanced knowledge and understanding of the mathematics, sciences, Engineering sciences and technologies underpinning their branch of Engineering.

(b) Able to identify, formulate, analyse and solve Engineering problems.

(c) Able to perform the detailed design of a novel system, component or process using analysis and interpretation of relevant data.

(d) Demonstrate the ability to design and conduct experiments and to apply a range of standard and specialised research (or equivalent) tools and techniques of enquiry.

(e) Possess an understanding of the need for high ethical standards in the practice of Engineering, including the responsibilities of the Engineering profession towards people and the environment.

(f) Demonstrate the ability to work effectively as an individual, in teams and in multidisciplinary settings, together with the capacity to undertake lifelong learning.

(g) Demonstrate the ability to communicate effectively on complex Engineering activities with the Engineering community and with society at large.
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.

![Trinity Graduate 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.
### 9.1.1 C Stream

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Module Title</th>
<th>ECTS</th>
<th>Semester</th>
<th>Coordinator</th>
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</thead>
<tbody>
<tr>
<td>3E1</td>
<td>Engineering Mathematics V</td>
<td>5</td>
<td>1</td>
<td>Anil Kokaram</td>
</tr>
<tr>
<td>3E3</td>
<td>Probability &amp; Statistics</td>
<td>5</td>
<td>1</td>
<td>Anil Kokaram</td>
</tr>
<tr>
<td>3C1</td>
<td>Signals &amp; Systems</td>
<td>5</td>
<td>1</td>
<td>Anil Kokaram</td>
</tr>
<tr>
<td>3C2</td>
<td>Digital Circuits</td>
<td>5</td>
<td>1</td>
<td>Anil Kokaram</td>
</tr>
<tr>
<td>3D1</td>
<td>Microprocessors I</td>
<td>5</td>
<td>1</td>
<td>Anil Kokaram</td>
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<tr>
<td>3D5A</td>
<td>Data Structures &amp; Algorithms</td>
<td>5</td>
<td>1</td>
<td>Anil Kokaram</td>
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<tr>
<td>3E4</td>
<td>Management for Engineers</td>
<td>5</td>
<td>2</td>
<td>Anil Kokaram</td>
</tr>
<tr>
<td>3C3</td>
<td>Analogue Circuits</td>
<td>5</td>
<td>2</td>
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<tr>
<td>3C5</td>
<td>Telecommunications</td>
<td>5</td>
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<td>3C7</td>
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<td>5</td>
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<tr>
<td>3C8</td>
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<td>5</td>
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<tr>
<td>3C9</td>
<td>Analogue Circuits Design</td>
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<td>2</td>
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</table>

Module descriptors are available at the following link:

TBC
## 9.1.2 CD Stream

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Module Title</th>
<th>ECTS</th>
<th>Semester</th>
<th>Coordinator</th>
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<tbody>
<tr>
<td>3E1</td>
<td>Engineering Mathematics V</td>
<td>5</td>
<td>1</td>
<td>Anil Kokaram</td>
</tr>
<tr>
<td>3E3</td>
<td>Probability &amp; Statistics</td>
<td>5</td>
<td>1</td>
<td>Anil Kokaram</td>
</tr>
<tr>
<td>3C1</td>
<td>Signals &amp; Systems</td>
<td>5</td>
<td>1</td>
<td>Anil Kokaram</td>
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<tr>
<td>3C2</td>
<td>Digital Circuits</td>
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<td>1</td>
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<tr>
<td>3D1</td>
<td>Microprocessors I</td>
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<tr>
<td>3D5A</td>
<td>Data Structures &amp; Algorithms</td>
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<tr>
<td>3E4</td>
<td>Management for Engineers</td>
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<td>2</td>
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<tr>
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<td>Digital Systems Design</td>
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<tr>
<td>3C8</td>
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</table>

Module descriptors are available at the following link:

TBC
### 9.1.3 D Stream

<table>
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<th>Module Title</th>
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<th>Semester</th>
<th>Coordinator</th>
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<tbody>
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<td>Anil Kokaram</td>
</tr>
<tr>
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<tr>
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<td>Signals &amp; Systems</td>
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<tr>
<td>3C2</td>
<td>Digital Circuits</td>
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<td>1</td>
<td>Anil Kokaram</td>
</tr>
<tr>
<td>3D1</td>
<td>Microprocessors I</td>
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<td>1</td>
<td>Anil Kokaram</td>
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<tr>
<td>3D5A</td>
<td>Data Structures &amp; Algorithms</td>
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<td>1</td>
<td>Anil Kokaram</td>
</tr>
<tr>
<td>3E4</td>
<td>Management for Engineers</td>
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<td>Anil Kokaram</td>
</tr>
<tr>
<td>3C7</td>
<td>Digital Systems Design</td>
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<td>Anil Kokaram</td>
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<td>Computer Networks</td>
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<td>2</td>
<td>Anil Kokaram</td>
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<tr>
<td>3D3</td>
<td>Operating Systems &amp; Concurrent Systems</td>
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<td>2</td>
<td>Anil Kokaram</td>
</tr>
<tr>
<td>3D2</td>
<td>Microprocessor Systems II</td>
<td>5</td>
<td>2</td>
<td>Anil Kokaram</td>
</tr>
<tr>
<td>3DB5</td>
<td>Software Design &amp; Implementation</td>
<td>5</td>
<td>2</td>
<td>Anil Kokaram</td>
</tr>
</tbody>
</table>

Module descriptors are available at the following link:

TBC
9.2 Laboratories

Each module in JS has one or two laboratory experiments attached to it. 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

For individual coursework requirements, please see the appropriate lecturer.

9.3.1 Submission guidelines

For individual coursework requirements, please see the appropriate lecturer.

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. For all years (JS/SS/MAI/MSc) and ALL modules within the Discipline of Electrical & Electronic Engineering the following applies:

Individual Coursework
1. Coursework received within two weeks of the due date will be graded, but a penalty will be applied
   • Up to 1 week late = minus 15%
   • From 1 week to 2 weeks late = minus 25%
2. Any submissions received two weeks after the due date will not be accepted and will receive a zero grade.
3. Submission dates may be extended in exceptional and extenuating 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.

Group Coursework
1. The same penalties for late submissions will apply to group coursework as outlined for “Individual Coursework”.
2. In addition, certain modules may also adopt an additional grading scheme whereby group projects/assignments will be graded as a function of lecture attendance. Please consult module coordinator.

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 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 honours 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.

COLLEN PRIZE IN ARTS

This prize was founded in 1963 by a gift from L.D.G. Collen, M.A., M.A.I. The prize is awarded annually to the third year engineering student who gives the best performance in the module ‘management for engineers’. Value, €120.

STANFORD-SMITH PRIZES

These prizes were founded in 1994 by a bequest from Raymond Thomas Kennedy in memory of his grandfather, Francis Stanford-Smith. They are awarded annually in the third year of the Bachelor in Engineering course based on the annual examinations in that year. The prize is awarded in six equal parts; each part is awarded to the student achieving the best examination results in the following streams: (i) Biomedical Engineering, (ii) Civil, Structural and Environmental Engineering, (iii) Computer Engineering, (iv) Electronic and Electrical Engineering, (v) Electronic/Computer Engineering, (vi) Mechanical and Manufacturing Engineering. The value of each part is €350.
ROBERT FRIEL MEMORIAL PRIZE

This prize was instituted in 1992 by a gift from Mr and Mrs G.M.S. Friel in memory of their son. It is awarded annually to the best third year engineering student studying computer science. Value, €500.

B.K.P. SCAIFE PRIZE IN ELECTRONIC ENGINEERING

This prize was established in 1999 by a generous gift from Silicon Systems Limited and by subscription from graduates in appreciation of the work of Brendan Kevin Patrick Scaife, F.T.C.D. 1964, M.R.I.A. 1972, Boyle Medallist of R.D.S. (1992), Professor of Engineering Science (1972-86), Professor of Electromagnetics (1986-8). It is awarded annually in the third year of the B.A.I. course, on the recommendation of the Head of the Department of Electronic and Electrical Engineering. Value, €350.

10.3 Scholarships

KINSELLA SCHOLARSHIP

This scholarship was established in 2016 by Barbara and Eric Kinsella, Chairman of Jones Engineering Group. The scholarships are awarded to students in their Senior Freshman year. Valued at €5,000 per annum, each scholarship will be renewed annually for the duration of the student’s studies. The scholarships will be awarded on the basis of marks obtained in the Engineering Project Design modules with selected students being invited to go forward to an interview stage. Preference will be given to candidates not already holding scholarship awards of significant value.
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/mecheng/assets/pdf/Safety_Statement.pdf)

and in the Department of Electronic and Electrical Engineering: (http://www.mee.tcd.ie/safety/SS2012.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 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 to 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
Web: 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; Tel: 01 896 1402
Julian Hamilton (Methodist Chaplain): julian.hamilton@tcd.ie; Tel: 01 896 1901
Alan O’Sullivan (Catholic Chaplain): aeosulli@tcd.ie; Tel: 01 896 1260
Peter Sexton (Catholic Chaplain): 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
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
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 Help room 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
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. 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 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
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 https://libguides.tcd.ie/friendly.php?s=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


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/

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 components. 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

<table>
<thead>
<tr>
<th>Mark Range</th>
<th>Criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>90-100</td>
<td>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.</td>
</tr>
<tr>
<td>80-89</td>
<td>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.</td>
</tr>
<tr>
<td>70-79</td>
<td>MAINLY OUTSTANDING ANSWER; falls short on presentation and reading or thought beyond the course but retains insight and originality typical of first class work.</td>
</tr>
<tr>
<td>65-69</td>
<td>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.</td>
</tr>
<tr>
<td>60-64</td>
<td>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.</td>
</tr>
<tr>
<td>55-59</td>
<td>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.</td>
</tr>
<tr>
<td>50-54</td>
<td>INCOMPLETE ANSWER; suffers from significant omissions, errors and misunderstandings, but still with understanding of main concepts and showing sound knowledge. Several lapses in detail.</td>
</tr>
</tbody>
</table>
Guidelines on Marking Projects/Dissertation Assessment

<table>
<thead>
<tr>
<th>Mark Range</th>
<th>Criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>90-100</td>
<td>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).</td>
</tr>
<tr>
<td>80-89</td>
<td>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.</td>
</tr>
<tr>
<td>Score</td>
<td>Project Report Description</td>
</tr>
<tr>
<td>-------</td>
<td>-----------------------------</td>
</tr>
<tr>
<td>70-79</td>
<td>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.</td>
</tr>
<tr>
<td>60-69</td>
<td>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. <strong>General standard of presentation and organisation</strong></td>
</tr>
<tr>
<td>50-59</td>
<td>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. <strong>Insufficient attention to organisation and presentation of the</strong></td>
</tr>
<tr>
<td>40-49</td>
<td>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. <strong>General standard of presentation poor.</strong></td>
</tr>
<tr>
<td>20-39</td>
<td>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.</td>
</tr>
</tbody>
</table>
0-19 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.

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).