School of Engineering
School of Computer Science and Statistics

BAI Electronic Engineering (C Stream)
BAI Computer Engineering (D Stream)
BAI Electronic & Computer Engineering (CD Stream)

Senior Sophister Handbook
2018 – 2019
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Note: This School of Engineering Handbook for the Senior Sophister (year
4) C, CD and D Streams of the BAI Programme is intended to provide students
with the most important and essential information relating to the course for
the academic year 2018-19. Every effort is made to ensure that the
information is up-to-date and accurate. In the event of any conflict or
inconsistency between the General Regulations published in the University
Calendar and information contained in the handbook, the provisions of the
General Regulations in the Calendar will prevail.
1 Introduction

Welcome to the Senior Sophister year of the Integrated BAI/MAI degree programme in the specialisations: Electronic, Electronic & Computer Engineering and Computer Engineering, commonly known as the C Stream, CD Stream and D Stream, respectively. The objective of the BAI/MAI degree offered by the Departments of Electronic & Electrical Engineering and the School of Computer Science and Statistics is to produce well-rounded graduates, having a strong grounding in analytical skills and the flexibility to adapt to the advances in electronic technologies, communications systems and computer systems. Having completed one year of specialisation in your chosen discipline, you now enter the fourth year of your programme to continue that specialisation towards a Level 8 honours degree. On successful completion of this year, with an appropriate grade, you will be eligible to proceed to the 5th Masters year of the programme to compete for the Level 9 MAI degree. Those registered for the MAI degree will not be conferred with their BAI degree until graduating from the MAI year at which point they will receive both the BAI and MAI degrees together. However, students may opt to finish the programme at the Level 8 honours degree and on successful completion of their Senior Sophister year will be awarded the BAI degree. The Senior Sophister year is different from any other year of the programme in that there are several different modes of undertaking the year’s study, depending on the student’s intentions with respect to the MAI degree. The complete details of each mode are outlined below. The information presented in this handbook is as accurate and as complete as possible at the time of going to press but may be subject to some minor changes throughout the course of the academic year. Information not available at the time of going to press will be issued at the appropriate point later in the year as soon as it becomes available. We wish you every success in your Senior Sophister year.
2 General Information

2.1 Trinity College Dublin

Trinity College Dublin (TCD) the College of the Holy and Undivided Trinity of Queen Elizabeth near Dublin was founded in 1592 by Queen Elizabeth I. Trinity is sometimes referred to as the University of Dublin or Dublin University. Today, Trinity has nearly 800 academics catering for more than 16,500 students (of whom over 25% are postgraduates). TCD is recognized internationally as Ireland’s premier university and ranks very highly among European and world universities.

2.2 Trinity Education Project

The Trinity Education Project is a university wide initiative to ‘rearticulate what a Trinity Education should be in the 21st century and to reemphasise our role as a leader in education’. This will enhance the experience of all Trinity students, including those in the school of engineering. The ‘high level’ graduate attributes span 4 dimensions – academic excellence, critical thinking and effective communication, life-long learning, and global citizenship. The academic and administrative structures will be enhanced to provide student learning-centred assessment, learning spaces, curriculum principles and architecture, internships and study abroad options and technology enhanced learning where appropriate.

While many details in this project have still to be determined, the currently proposed architecture for professional degrees (including engineering) would see 10 ECTS of ‘free electives’ (modules available to all students in the university, and chosen by the students) made available within the first 4 years of the programme, and 20 ECTS of ‘approved modules’ (modules from a prescribed menu outside of the students core requirements, but which are recognized as cognate and coherent). The school of engineering is excited by the opportunities to use this new project to provide flexible and agile responses to the needs of our graduates.

For more detail see https://www.tcd.ie/academic-services/tep/.
2.3 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.

2.4 Student Supports

Trinity College provides a wide range of personal and academic supports for its students.

2.4.1 Personal or Academic Concerns: 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, any other tutor will help as will the Senior Tutor (tel: 8962551).

2.4.2 Personal Concerns: Other sources of Assistance

- 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: 8961407
  Email: student-counselling@tcd.ie
  Web: http://www.tcd.ie/Student_Counselling.

- Niteline (Thursday to Tuesday during term time only, 9 pm - 2.30 am)
  Tel: 1800 793 793. Web: http://www.niteline.ie/.

- The College Health Service, House 47, College.
  Medical Director: Dr David McGrath. Tel: 8961591 or 8961556.

- The Welfare Officer, Students' Union, House 6, College.
  Email: mwelfare@tcdsu.org;

- The Chaplains, House 27, College.
  Peter Sexton SJ (Catholic) tel:8961260
  Steve Brunn (Church of Ireland) tel:8961402
  Julian Hamilton (Methodist) tel:8961901
  Web: http://www.tcd.ie/chaplaincy

- Any student, member of staff or other person with whom you feel able to discuss your concerns;

- Disability Services Coordinator, Mr Declan Treanor, Room 3055, Arts Building, tel: 8963475, email: mdtreanor@tcd.ie

2.4.3 Academic Concerns: 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/.
2.4.4 Academic Concerns: 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. The service is offered by the College's Student Counselling Service. To find out more, visit their website at http://www.tcd.ie/Student_Counselling/student-learning/.

2.4.5 Academic Concerns: 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. It is run by the School of Mathematics and further information is available at http://www.maths.tcd.ie/~mathshelp/.

2.4.6 Academic Concerns: Other sources of Assistance

- Other students in the class.
- The course lecturer.
- Your class representatives.
- Your tutor (or any other tutor if you cannot find yours), or the Senior Tutor.
- The Course Director or the Course Coordinator.
- The Students' Union Education Officer, web http://www.tcdsu.org, email meducation@tcdsu.org
- The Student to Student Service also provides peer mentoring for students in all years. For information about all Student to Student services, please email mstudent2student@tcd.ie or phone 8962438.

See Figure 1.

NOTE: IF YOU HAVE A CONCERN OF ANY SORT, PLEASE TALK TO SOMEONE STRAIGHT AWAY
Figure 1: Student to Student services
2.5 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.

2.6 Student Organisations

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/.

The Trinity Graduate Students' Union (TCD GSU) is the main representative body for postgraduate students in Trinity College. For more information see https://www.tcdgsu.ie/.

2.7 Emergency Procedure

In the event of an emergency, dial Security Services on extension 1999 (+353-1-8961999 from a mobile phone or an external landline). 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).

2.8 Data Protection

Trinity College Dublin uses personal data relating to students for a variety of purposes. We are careful to comply with our obligations under data protection laws and we have prepared a short guide (available at https://www.tcd.ie/info_compliance/data-protection/student-data/) to ensure you understand how we obtain, use and disclose student data in the course of performing University functions and services.
3 General Programme Information

3.1 BAI/MAI Programme contacts

3.1.1 Engineering School

Head of School of Engineering:
Prof Henry Rice, hrice@tcd.ie

Director of Undergraduate Teaching and Learning:
Prof Alan O’ Connor, oconnoaj@tcd.ie

School of Engineering Office Manager: vacant

Administrative Officer: Ms Judith Lee, julee@tcd.ie

Executive Officer: vacant

3.1.2 SS BAI Year Co-ordinators

SS BAI Year Co-ordinators may be contacted of behalf of the classes or streams by the appropriate class representatives. These are:
Dr M. J. Burke, Dept. of Electronic & Electrical Engineering, Aras an Phiarsaigh, mburke@tcd.ie

Dr J. Jones, Room 4.16 South Leinster St., School of Computer Science and Statistics, jones@scss.tcd.ie

3.1.3 Exchange Programme School Coordinator:

The coordinator at School level for the Unitech, Cluster and Erasmus exchange programmes is Prof Brian Broderick, bbrodrck@tcd.ie.

3.1.4 Academic Registry

Should you need to contact the College Academic Registry please use one of the following means:

- Log an enquiry via ASK AR on the my.tcd.ie portal
• Via email at academic.registry@tcd.ie
• Via phone at (01)8964500 [students] or #4501 [staff]

3.2 Scheduling and Timetables

This handbook for the SS year of the C, CD and D Streams of the Integrated BAI/MAI programme can be found on the School of Engineering Website at:


The College Academic Year Calendar 2018-19 giving key dates and events is shown on the following page and can be found at:

<table>
<thead>
<tr>
<th>Cal. Wk.</th>
<th>Date 2018/19 (week beginning)</th>
<th>2018/19 Academic Year Calendar</th>
<th>Term / Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>27-Aug-18</td>
<td>Marking/results</td>
<td>Michaelmas term begins/semester 1 begins</td>
</tr>
<tr>
<td>2</td>
<td>03-Sep-18</td>
<td>Orientation (undergraduate)/Fresher's Week</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>10-Sep-18</td>
<td>Teaching and Learning</td>
<td>Michaelmas teaching term begins</td>
</tr>
<tr>
<td>4</td>
<td>17-Sep-18</td>
<td>Teaching and Learning</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>24-Sep-18</td>
<td>Teaching and Learning</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>01-Oct-18</td>
<td>Teaching and Learning</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>08-Oct-18</td>
<td>Teaching and Learning</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>15-Oct-18</td>
<td>Teaching and Learning</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>22-Oct-18</td>
<td>Study/Review</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>29-Oct-18</td>
<td>Teaching and Learning</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>05-Nov-18</td>
<td>Teaching and Learning</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>12-Nov-18</td>
<td>Teaching and Learning</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>19-Nov-18</td>
<td>Teaching and Learning</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>26-Nov-18</td>
<td>Teaching and Learning</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>03-Dec-18</td>
<td>Revision</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>10-Dec-18</td>
<td>Assessment</td>
<td>Michaelmas term ends Sunday 16 December 2018/ Semester 1 ends</td>
</tr>
<tr>
<td>17</td>
<td>17-Dec-18</td>
<td>Christmas Period - College closed</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>24-Dec-18</td>
<td>24 December 2018 to 1 January 2019 inclusive</td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>31-Dec-18</td>
<td></td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>07-Jan-19</td>
<td>Foundation Scholarship Examinations</td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>14-Jan-19</td>
<td>Marking/results</td>
<td>Hilary Term begins/Semester 2 begins</td>
</tr>
<tr>
<td>22</td>
<td>21-Jan-19</td>
<td>Teaching and Learning</td>
<td>Hilary teaching term begins</td>
</tr>
<tr>
<td>23</td>
<td>28-Jan-19</td>
<td>Teaching and Learning</td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>04-Feb-19</td>
<td>Teaching and Learning</td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>11-Feb-19</td>
<td>Teaching and Learning</td>
<td></td>
</tr>
<tr>
<td>26</td>
<td>18-Feb-19</td>
<td>Teaching and Learning</td>
<td></td>
</tr>
<tr>
<td>27</td>
<td>25-Feb-19</td>
<td>Teaching and Learning</td>
<td></td>
</tr>
<tr>
<td>28</td>
<td>04-Mar-19</td>
<td>Study/Review</td>
<td></td>
</tr>
<tr>
<td>29</td>
<td>11-Mar-19</td>
<td>Teaching and Learning</td>
<td></td>
</tr>
<tr>
<td>30</td>
<td>18-Mar-19</td>
<td>Teaching and Learning (Monday, Public Holiday)</td>
<td></td>
</tr>
<tr>
<td>31</td>
<td>25-Mar-19</td>
<td>Teaching and Learning</td>
<td></td>
</tr>
<tr>
<td>32</td>
<td>01-Apr-19</td>
<td>Teaching and Learning</td>
<td></td>
</tr>
<tr>
<td>33</td>
<td>08-Apr-19</td>
<td>Teaching and Learning</td>
<td></td>
</tr>
<tr>
<td>34</td>
<td>15-Apr-19</td>
<td>Revision (Friday, Good Friday)</td>
<td>Hilary term ends Sunday 21 April 2019</td>
</tr>
<tr>
<td>35</td>
<td>22-Apr-19</td>
<td>Assessment (Monday, Easter Monday)</td>
<td>Trinity term begins</td>
</tr>
<tr>
<td>36</td>
<td>29-Apr-19</td>
<td>Trinity Week</td>
<td></td>
</tr>
<tr>
<td>37</td>
<td>06-May-19</td>
<td>Marking/results</td>
<td>Statutory (Trinity) Term ends Sunday 2 June 2019/ Semester 2 ends</td>
</tr>
<tr>
<td>38</td>
<td>13-May-19</td>
<td>Marking/results</td>
<td></td>
</tr>
<tr>
<td>39</td>
<td>20-May-19</td>
<td>Marking/results</td>
<td></td>
</tr>
<tr>
<td>40</td>
<td>27-May-19</td>
<td>Summer Research</td>
<td></td>
</tr>
<tr>
<td>41</td>
<td>03-Jun-19</td>
<td>Summer Research (Monday, Public Holiday)</td>
<td></td>
</tr>
<tr>
<td>42</td>
<td>10-Jun-19</td>
<td>Summer Research</td>
<td></td>
</tr>
<tr>
<td>43</td>
<td>17-Jun-19</td>
<td>Summer Research</td>
<td></td>
</tr>
<tr>
<td>44</td>
<td>24-Jun-19</td>
<td>Summer Research</td>
<td></td>
</tr>
<tr>
<td>45</td>
<td>01-Jul-19</td>
<td>Summer Research</td>
<td></td>
</tr>
<tr>
<td>46</td>
<td>08-Jul-19</td>
<td>Summer Research</td>
<td></td>
</tr>
<tr>
<td>47</td>
<td>15-Jul-19</td>
<td>Summer Research</td>
<td></td>
</tr>
<tr>
<td>48</td>
<td>22-Jul-19</td>
<td>Summer Research</td>
<td></td>
</tr>
<tr>
<td>49</td>
<td>29-Jul-19</td>
<td>Summer Research</td>
<td></td>
</tr>
<tr>
<td>50</td>
<td>05-Aug-19</td>
<td>Summer Research (Monday, Public Holiday)</td>
<td></td>
</tr>
<tr>
<td>51</td>
<td>12-Aug-19</td>
<td>Summer Research</td>
<td></td>
</tr>
<tr>
<td>52</td>
<td>19-Aug-19</td>
<td>Summer Research</td>
<td></td>
</tr>
</tbody>
</table>

*Note: It may be necessary to hold some exams in the preceding week.*
The SS Year Timetable is implemented in a combined manner for the C CD and D Streams. It may be modified or altered throughout the academic year and the up-to-date version will always be found at: http://www.tcd.ie/Engineering/undergraduate/pdf/SStimetable_CCDD.pdf.

The schedule for SS Laboratories in the Department of Electronic and Electrical Engineering is given below following the College Academic year Structure. These will take place primarily in Aras an Phiarsaigh on Friday mornings in both Semesters.

The Blackboard teaching support tool is used extensively by academic staff in the School of Engineering, for making lecture notes available, publishing tutorial solutions, the submission of class assignments and the provision of results and feedback to students on an individual basis. This facility can be logged into at: https://tcd.blackboard.com/webapps/login/.
# Senior Sophister Laboratory Schedule 2018-19, Dept. Electronic & Electrical Engineering

## Semester I Schedule

4C5 Digital Signal Processing, 4C7 Information & Communication Theory, 4C16 Machine Learning: EEE Dept., PC Lab, 2nd Floor, Aras an Phiarsaigh.

<table>
<thead>
<tr>
<th>Friday Mornings</th>
<th>Week 1 14th Sep</th>
<th>Week 2 21st Sep</th>
<th>Week 3 28th Sep</th>
<th>Week 4 5th Oct</th>
<th>Week 5 12th Oct</th>
<th>Week 6 19th Oct</th>
<th>Week 7 26th Oct</th>
<th>Week 8 2nd Nov</th>
<th>Week 9 9th Nov</th>
<th>Week 10 16th Nov</th>
<th>Week 11 23rd Nov</th>
<th>Week 12 30th Nov</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.00-11.00</td>
<td>416 C, CD, D, Bio</td>
<td>4C16 C, CD, D, Bio</td>
<td>4C5 C, CD</td>
<td>4C5 C, CD</td>
<td>Reading Week</td>
<td>4C5 C, CD</td>
<td>4C5 C, CD</td>
<td>4C16 C, CD</td>
<td>4C16 C, CD</td>
<td>4C16 C, CD</td>
<td>4C16 C, CD</td>
<td>4C16 C, CD</td>
</tr>
<tr>
<td>11.00-13.00</td>
<td>4C16 C, CD, D, Bio</td>
<td>4C16 C, CD, D, Bio</td>
<td>4C5 Bio</td>
<td>4C7 C, CD</td>
<td>4C5 Bio</td>
<td>Reading Week</td>
<td>4C5 Bio</td>
<td>4C5 Bio</td>
<td>4C7 C, CD</td>
<td>4C16 D, Bio</td>
<td>4C16 D, Bio</td>
<td></td>
</tr>
</tbody>
</table>

## Semester II Schedule

4B9 Control Engineering, Mechanical Engineering Dept., Mechatronics Laboratory, 4th Floor, Parsons Building.

4C2 Microelectronic Circuits, EEE Dept., PC Lab, 2nd Floor, Aras an Phiarsaigh.

4C15 Analogue Signal Processing, EEE Dept., Undergraduate Laboratory, 2nd Floor, Aras an Phiarsaigh.

<table>
<thead>
<tr>
<th>Friday Mornings</th>
<th>Week 1 25th Jan</th>
<th>Week 2 1st Jan</th>
<th>Week 3 8th Feb</th>
<th>Week 4 15th Feb</th>
<th>Week 5 22nd Feb</th>
<th>Week 6 1st Mar</th>
<th>Week 7 8th Mar</th>
<th>Week 8 15th Mar</th>
<th>Week 9 22nd Mar</th>
<th>Week 10 29th Mar</th>
<th>Week 11 5th Apr</th>
<th>Week 12 12th Apr</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.00-11.00</td>
<td>4C2 C, CD</td>
<td>4C15 C, CD</td>
<td>4C2 C, CD</td>
<td>4C15 C, CD</td>
<td>Reading Week</td>
<td>Poster Session C, CD</td>
<td>4C15 C, CD</td>
<td>4C2 C, CD</td>
<td>4C15 C, CD</td>
<td>4C15 C, CD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.00-13.00</td>
<td>4B9 C, CD</td>
<td>4C15 C, CD</td>
<td>4B9 C, CD</td>
<td>4C15 C, CD</td>
<td>Reading Week</td>
<td>Poster Session C, CD</td>
<td>4C15 C, CD</td>
<td>4B9 C, CD</td>
<td>4C15 C, CD</td>
<td>4C15 C, CD</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
3.3 BAI Degree Exit

Senior Sophister students who have not opted, or are not eligible, to progress to the MAI programme may complete the SS year to obtain the BAI degree. These students essentially follow the same structure as Mode 1 of the MAI programme. Students take taught modules totalling 45 ECTS and undertake an individual project worth 15 ECTS. Taught modules include CEU44E01 Management for Engineers in the first semester and a combination of other mandatory and optional modules totalling 55 ECTS, spread over the two semesters. Modules totalling 30 ECTS are taken in each semester. The individual project dissertation must be submitted towards the end of the second semester (date to be confirmed).

3.4 MAI Degree Modes

Eligible students who have elected to complete the MAI programme follow one of three modes in their Senior Sophister year.

Mode 1

Students completing the year by Mode 1 spend both semesters in Trinity College. Students take taught modules totalling 45 ECTS and undertake an individual project worth 15 ECTS. Taught modules include CEU44E01 Management for Engineers in the first semester and a combination of other mandatory and optional modules totalling 55 ECTS, spread over the two semesters. Modules totalling 30 ECTS are taken in each semester. The individual project dissertation must be submitted towards the end of the second semester (date to be confirmed).

Mode 2

Students spend the first semester in Trinity College and take CEU44E01 Management for Engineers and a combination of other mandatory and optional taught modules having a total of 30 ECTS in Semester 1. In the second semester students complete an industry-based internship, 4E4, worth 30 ECTS. This requires several submissions for assessment including a final dissertation and an oral presentation of the work carried out during the internship. Students following Mode 2 will have two internship
supervisors: a staff member in the host company and an academic staff member in their host TCD School or Department. Students must have obtained an overall II.1 grade or higher in their **first attempt at the Junior Sophister annual examinations** in order to be eligible to apply for an internship.

**Mode 3**

Students who obtain a II.1 grade or higher in their **first attempt at the Junior Sophister annual examinations** may opt to spend their fourth year of study on the Cluster or Unitech programmes in a partner University, or on an Erasmus exchange. Students who wish to follow Mode 3 must apply through the School of Engineering and obtain approval. It is also essential that the precise programme of study undertaken abroad in Mode 3 is agreed with the student’s home Department(s) or School to ensure that prerequisites for entry into the MAI year on their return to College are met. More details of study abroad can be found on the School of Engineering website at the following link:

[https://www.tcd.ie/Engineering/undergraduate/study-abroad/](https://www.tcd.ie/Engineering/undergraduate/study-abroad/)

The School of Engineering coordinator for the Cluster and Unitech programmes is Prof B. Broderick. The 5th year MAI coordinator in the Dept. of Electronic & Electrical Engineering is Prof Anil Kokaram [Anil.Kokaram@tcd.ie](mailto:Anil.Kokaram@tcd.ie) and in the School of Computer Science and Statistics is Dr Jeremy Jones [jones@scss.tcd.ie](mailto:jones@scss.tcd.ie).

**3.5 BAI/MAI Academic Year Organization**

The Senior Sophister teaching year is arranged into two 12-week semesters as defined by the College’s academic year outlined in more detail below. The crucial dates are as follows:

**3.5.1 Teaching Weeks:**


3.5.2 Reading/Study Weeks:

3.5.3 Examination Periods:
Winter Examinations for those modules taught wholly in the first semester commence on Saturday 8th Dec. 2018.
Annual Examinations commence on Saturday 20th Apr. 2019.

3.6 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.

### 3.7 Module and Module Descriptors

The Department of Electronic & Electrical Engineering and the School of Computer Science and Statistics provide modules for the C, CD and D streams. Module descriptors giving details of the learning outcomes, syllabi, assignments and assessment methods for each module are published on the School of Engineering website at the following links:


Permitted combinations of mandatory and optional modules are detailed below for each stream.

Modules available to Senior Sophister students, their ECTS credit value and the semesters in which they are taught are as follows:

<table>
<thead>
<tr>
<th>School Modules</th>
<th>Semester</th>
<th>ECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEU44E01</td>
<td>I</td>
<td>5</td>
</tr>
<tr>
<td>EEU44E02/CS4E02</td>
<td>II</td>
<td>15</td>
</tr>
<tr>
<td>EEU44E04/CS4E04</td>
<td>II</td>
<td>30</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>EEE Modules</th>
<th>Semester</th>
<th>ECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEU44C01</td>
<td>II</td>
<td>5</td>
</tr>
<tr>
<td>EEU44C02</td>
<td>II</td>
<td>5</td>
</tr>
<tr>
<td>EEU44C04</td>
<td>I</td>
<td>5</td>
</tr>
<tr>
<td>EEU44C05</td>
<td>I</td>
<td>5</td>
</tr>
<tr>
<td>EEU44C07</td>
<td>I</td>
<td>5</td>
</tr>
<tr>
<td>EEU44C08</td>
<td>I</td>
<td>5</td>
</tr>
</tbody>
</table>
These modules are summarised according to the semesters in which they are taught in the following table:

<table>
<thead>
<tr>
<th>EEE Modules</th>
<th>SCSS Modules</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semester 1</td>
<td>Semester 2</td>
</tr>
<tr>
<td>EEU44C04</td>
<td>EEU44C01</td>
</tr>
<tr>
<td>EEU44C05</td>
<td>EEU44C02</td>
</tr>
<tr>
<td>EEU44C07</td>
<td>EEU44C08</td>
</tr>
<tr>
<td>EEU44C16</td>
<td>EEU44C15</td>
</tr>
<tr>
<td>MEU44B09</td>
<td>CS4400</td>
</tr>
<tr>
<td></td>
<td>CS4407</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>EEE Modules</th>
<th>SCSS Modules</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semester 1</td>
<td>Semester 2</td>
</tr>
<tr>
<td></td>
<td>4D2A/CS3041</td>
</tr>
<tr>
<td></td>
<td>CS4D2B</td>
</tr>
<tr>
<td></td>
<td>CS3421</td>
</tr>
<tr>
<td></td>
<td>CS7434</td>
</tr>
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<td></td>
<td>CS4052</td>
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<td>CS4405</td>
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<td></td>
<td>CS4406</td>
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<tr>
<td></td>
<td>CS4407</td>
</tr>
</tbody>
</table>
Stream Combinations

Remember **Mode 1** is where students spend their complete year 4 in TCD, **Mode 2** where students spend semester 1 in TCD and semester 2 (and the summer) on an internship and **Mode 3** is where students spend their complete year 4 in a partner University.

C Stream

In Semester 1 students following **Mode 1** or **Mode 2** take the following mandatory modules CEU44E01, EEU44C05, EEU44C16 and two optional modules from the following: EEU4C04, EEU44C07 and CS3421.

In Semester 2 students following **Mode 1** take the mandatory module EEU44E02/CS4E02 (project), and three optional modules from the following: EEU4C01, EEU4C02, EEU44C08, EEU4C15 and MEU44B09.

In Semester 2 students following **Mode 2** take the module EEU44E04/CS4E04 (Industrial Internship).

CD Stream

In Semester 1 students following **Mode 1** or **Mode 2** take the following mandatory modules CEU44E01, EEU44C05, EEU44C16 and two optional modules from the following: EEU4C04, EEU44C07, CS3421, CS4D2A, CS4052, CS4053 and CS4400. Students following **Mode 2** must choose 10 ECTS of CS-coded optional modules in Semester 1.

In Semester 2 students following **Mode 1** take the mandatory module EEU44E02/CS4E02 (project), and three optional modules from the following: EEU4C01, EEU44C08, EEU4C15, CS4D2B, CS4407 and CS7434. Students following **Mode 1** must choose 10 ECTS of CS-coded optional modules but may spread these across both semesters.

In Semester 2 students following **Mode 2** take the module EEU44E04/CS4E04 (Industrial Internship).
Students following **Mode 1** or **Mode 2** in the CD Stream who intend to proceed to the 5th MAI year must ensure that they choose modules in the SS year that fulfil any prerequisites for the subjects they intend to take in the 5th MAI year on their return to College. This is the students’ responsibility.

**D Stream**

In Semester 1 students following **Mode 1** or **Mode 2** take the following mandatory module CEU44E01 and a total of 25 ECTS of optional modules from the following: EEU44C04, EEU44C05, EEU44C16 (10 ECTS), CS3421, CS4D2A, CS4052, CS4053 and CS4400.

In Semester 2 students following **Mode 1** take the module CS4E02 (Final Year Project) and three modules from the following: CS4D2B, CS4405 CS4406, CS4407, CS7434, EEU44C01 and EEU44C08.

In Semester 2 students following **Mode 2** take the module CS4E04 (Industrial Internship).

**3.8 Submission Dates**

Subjects such as the Individual Project, EEU44E02/CS4E02 or the Engineering Project Internship, EEU4E04/CS4E04, are assessed entirely by continuous assessment. These have a number of elements which must submitted or presented and the associated deadlines in terms of the Semester structure are given below: Please note that some of these dates may change if unforeseen circumstances arise.

**EEU44E02 Individual Project in Electronic & Electrical Eng.**

Project Plan: Start of week 2, Semester 2, 9pm Monday 28th January 2019.

Poster File: End of Week 7, Semester 2, 2pm Friday 8th March 2019.

Poster Presentation: End of Week 8, Semester 2, all day Friday 15th March.

Project Report: End of week 12 of Semester 2, 2pm Friday 10th April 2019.
**CS4E02 Individual Project in Computer Science**

*Note: these dates are provisional and may be changed:*

Project Demonstration: 1\textsuperscript{st} April – 5\textsuperscript{th} April, 2019 (week 11, Semester 2)

Project Report: Friday 12\textsuperscript{th} April, 2019 (week 12 Semester 2)

Full Details at: [https://www.scss.tcd.ie/StudentProjects/](https://www.scss.tcd.ie/StudentProjects/)

**EEU44E04 Engineering Internship, Electronic & Electrical Eng.**

Official Duration: Monday, 7\textsuperscript{th} January 2019 – Friday, 26\textsuperscript{th} July 2019

Goals Report: End of week 2, Semester 2, Friday 1\textsuperscript{st} February 2019.

Midway Report: End of week 12, Semester 2, Friday 12\textsuperscript{th} April 2019.

Final Report: Friday 26\textsuperscript{th} July 2019.

Reflective Diary: Friday 26\textsuperscript{th} July 2019.

Oral Presentation: Week of Supplemental Examinations, date TBC.

**CS4E04 Engineering Internship, Computer Science**

Official Duration: To be announced at a later date.

Goals Report: To be announced at a later date.

Midpoint submission of Reflective Diary: To be announced at a later date.

Final Report Submission: To be announced at a later date.

Final Submission of Reflective Diary: To be announced at a later date.

Oral Presentation: to be arranged in conjunction with the host – see handbook, To be announced at a later date.

Full details and handbook at: [https://www.scss.tcd.ie/internships/](https://www.scss.tcd.ie/internships/)

**3.9 Electronic Engineering Laboratories**

Practical Laboratories will take place in the Department of Electronic & Electrical Engineering, generally on Friday mornings. There will be a varying
number of laboratory sessions associated with each module offered by the EEE department. Some modules have laboratory sessions built in to their own lecture schedule. The timetable for scheduled laboratories is given above with the academic year structure. Please note that laboratories for MEU4B09 are run by the Dept. of Mechanical Engineering and will therefore take place in the Parsons Building.

3.10 BAI/MAI Examinations

3.10.1 BAI/MAI Examination Rules

The Examination Regulations in the School of Engineering comply with the College Council approved Harmonisation Regulations and can be found for the Senior Sophist year on the School website at:


3.10.2 External Examiners

The current external examiner associated with the moderation of the BAI/MAI programme in the Dept. of Electronic and Electrical Engineering is:

Prof. dr. ir. R. (Inald) L. Lagendijk
Distinguished professor of Computing-based Society
Delft University of Technology
The Netherlands

https://www.tudelft.nl/staff/r.l.lagendijk/

The current external examiner associated with the moderation of the BAI/MAI programme in the School of Computer Science and Statistics:

Prof. Stephen McLaughlin BSc, PhD, FREng, FRSE
Head of School of Engineering and Physical Sciences
Heriot Watt University
3.11 Professional Accreditation

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
4 General Regulations

4.1 Attendance

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
4.2 Plagiarism

The following is extracted from the College Calendar’s General Regulations

82 General

It is clearly understood that all members of the academic community use and build on the work and ideas of others. It is commonly accepted also, however, that we build on the work and ideas of others in an open and explicit manner, and with due acknowledgement.

Plagiarism is the act of presenting the work or ideas of others as one’s own, without due acknowledgement.

Plagiarism can arise from deliberate actions and also through careless thinking and/or methodology. The offence lies not in the attitude or intention of the perpetrator, but in the action and in its consequences.

It is the responsibility of the author of any work to ensure that he/she does not commit plagiarism.

Plagiarism is considered to be academically fraudulent, and an offence against academic integrity that is subject to the disciplinary procedures of the University.

83 Examples of Plagiarism

Plagiarism can arise from actions such as:

(a) copying another student’s work;
(b) enlisting another person or persons to complete an assignment on the student’s behalf;
(c) procuring, whether with payment or otherwise, the work or ideas of another;
(d) quoting directly, without acknowledgement, from books, articles or other sources, either in printed, recorded or electronic format, including websites and social media;
(e) paraphrasing, without acknowledgement, the writings of other authors.

Examples (d) and (e) in particular can arise through careless thinking and/or methodology where students:

(i) fail to distinguish between their own ideas and those of others;

(ii) fail to take proper notes during preliminary research and therefore lose track of the sources from which the notes were drawn;

(iii) fail to distinguish between information which needs no acknowledgement because it is firmly in the public domain, and information which might be widely known, but which nevertheless requires some sort of acknowledgement;

(iv) come across a distinctive methodology or idea and fail to record its source.

All the above serve only as examples and are not exhaustive.

84 Plagiarism in the context of group work

Students should normally submit work done in co-operation with other students only when it is done with the full knowledge and permission of the lecturer concerned. Without this, submitting work which is the product of collaboration with other students may be considered to be plagiarism.

When work is submitted as the result of a group project, it is the responsibility of all students in the group to ensure, so far as is possible, that no work submitted by the group is plagiarised. In order to avoid plagiarism in the context of collaboration and groupwork, it is particularly important to ensure that each student appropriately attributes work that is not their own.

85 Self plagiarism

No work can normally be submitted for more than one assessment for credit. Resubmitting the same work for more than one assessment for credit is normally considered self-plagiarism.
86 Avoiding plagiarism

Students should ensure the integrity of their work by seeking advice from their lecturers, tutor or supervisor on avoiding plagiarism. All schools and departments must include, in their handbooks or other literature given to students, guidelines on the appropriate methodology for the kind of work that students will be expected to undertake. In addition, a general set of guidelines for students on avoiding plagiarism is available on http://tcd-ie.libguides.com/plagiarism.

87 If plagiarism as referred to in §82 above is suspected, in the first instance, the Director of Teaching and Learning (Undergraduate), or their designate, will write to the student, and the student’s tutor advising them of the concerns raised. The student and tutor (as an alternative to the tutor, students may nominate a representative from the Students’ Union) will be invited to attend an informal meeting with the Director of Teaching and Learning (Undergraduate), or their designate, and the lecturer concerned, in order to put their suspicions to the student and give the student the opportunity to respond. The student will be requested to respond in writing stating Calendar 2017-18 47 his/her agreement to attend such a meeting and confirming on which of the suggested dates and times it will be possible for them to attend. If the student does not in this manner agree to attend such a meeting, the Director of Teaching and Learning (Undergraduate), or designate, may refer the case directly to the Junior Dean, who will interview the student and may implement the procedures as referred to under CONDUCT AND COLLEGE REGULATIONS §2.

88 If the Director of Teaching and Learning (Undergraduate), or designate, forms the view that plagiarism has taken place, he/she must decide if the offence can be dealt with under the summary procedure set out below. In order for this summary procedure to be followed, all parties attending the informal meeting as noted in §87 above must state their agreement in writing to the Director of Teaching and Learning (Undergraduate), or designate. If one of the parties to the informal meeting withholds his/her
written agreement to the application of the summary procedure, or if the facts of the case are in dispute, or if the Director of Teaching and Learning (Undergraduate), or designate, feels that the penalties provided for under the summary procedure below are inappropriate given the circumstances of the case, he/she will refer the case directly to the Junior Dean, who will interview the student and may implement the procedures as referred to under CONDUCT AND COLLEGE REGULATIONS §2.

89 If the offence can be dealt with under the summary procedure, the Director of Teaching and Learning (Undergraduate), or designate, will recommend one of the following penalties:

(a) Level 1: Student receives an informal verbal warning. The piece of work in question is inadmissible. The student is required to rephrase and correctly reference all plagiarised elements. Other content should not be altered. The resubmitted work will be assessed and marked without penalty;

(b) Level 2: Student receives a formal written warning. The piece of work in question is inadmissible. The student is required to rephrase and correctly reference all plagiarised elements. Other content should not be altered. The resubmitted work will receive a reduced or capped mark depending on the seriousness/extent of plagiarism;

(c) Level 3: Student receives a formal written warning. The piece of work in question is inadmissible. There is no opportunity for resubmission with corrections. Instead, the student is required to submit a new piece of work as a supplemental assessment during the next available session. Provided the work is of a passing standard, both the assessment mark and the overall module mark will be capped at the pass mark. Discretion lies with the Senior Lecturer in cases where there is no standard opportunity for a supplemental assessment under applicable course regulations.

90 Provided that the appropriate procedure has been followed and all parties in §87 above are in agreement with the proposed penalty, the Director of Teaching and Learning (Undergraduate) should in the case of a Level 1 offence, inform the course director and where appropriate the
course office. In the case of a Level 2 or Level 3 offence, the Senior Lecturer must be notified and requested to approve the recommended penalty. The Senior Lecturer may approve, reject, or vary the recommended penalty, or seek further information before making a decision. If the Senior Lecturer considers that the penalties provided for under the summary procedure are inappropriate given the circumstances of the case, he/she may also refer the matter directly to the Junior Dean who will interview the student and may implement the procedures as referred to under CONDUCT AND COLLEGE REGULATIONS §2. Notwithstanding his/her decision, the Senior Lecturer will inform the Junior Dean of all notified cases of Level 2 and Level 3 offences accordingly. The Junior Dean may nevertheless implement the procedures as referred to under CONDUCT AND COLLEGE REGULATIONS §2.

91 If the case cannot normally be dealt with under the summary procedures, it is deemed to be a Level 4 offence and will be referred directly to the Junior Dean. Nothing provided for under the summary procedure diminishes or prejudices the disciplinary powers of the Junior Dean under the 2010 Consolidated Statutes.

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 examine their own work for plagiarism prior to submission using this or other software.

4.3 Collaboration and Individual Work

Engineering is about co-operation, but also individual effort. The everyday products of engineering, such as a jet aircraft, a suspension bridge, a DVD player, or a computer have all been designed and built by teams of dozens, hundreds and even thousands, of engineers working together. These engineers exchange ideas and ultimately co-ordinate their efforts to achieve the overall project goal. However, each component of even the largest project is the result of one individual’s engineering skill and imagination.

If you want to become a successful engineer, you must develop your own ability to analyse problems. This means that, while it is useful to work in a team initially, you must ultimately produce your own work. For example, in the case of a computing exercise, discuss the task with your classmates, swap ideas on how to solve the problem, but at the end of the day, you must be able to implement your own solution. The examinations will test your ability to apply your skills rather than just acquired knowledge and the only way to develop your ability for engineering analysis is to complete the laboratory experiments, tutorial exercises and design or analysis assignments yourself.

4.4 Absence from Examinations

The following is an extract from the College Calendar outlining the College policy on absence from Examinations:
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.
5 Research Ethics

Any research project that involves human participation conducted through this programme (for example, a questionnaire or survey, or system user-evaluation, etc.) must have independent review by a Research Ethics Committee before its commencement.

A basic principle is that prospective participants should be fully informed about the research and its implications for them as participants, with time to reflect on the possibility for participation prior to being asked to sign an informed consent form.

The online system for Computer Science and Statistics projects, with further information and guidelines, can be found here: http://www.scss.tcd.ie/undergraduate/ethics/.

It takes time to prepare an application for research ethics approval, to have the application considered, and to respond to feedback on the application where issues are raised. You should plan in your work for the time it takes to obtain research ethics approval.

Retrospective approval will not be granted.

Please also note, research conducted in the School of Computer Science and Statistics should be undertaken with cognisance of the TCD Guidelines for Good Research Practice; see http://www.tcd.ie/about/policies/assets/pdf/TCDGoodResearchPractice.pdf.
6 Scholarships and Prizes

6.1 Foundation Scholarship
The College offers a prestigious scholarship to students in the Senior Fresh year of undergraduate studies across all disciplines in College. This can be competed for at the annual Foundation Scholarship Examination normally held prior to the beginning of Semester 2 of the Senior Fresh year. Further details can be found in the College calendar at:


6.2 School of Engineering Prizes
The School of Engineering offers several sponsored prizes in each year of the BAI/MAI integrated programme which are generally awarded on the basis of results at the Annual Examinations. Gold Medals are also awarded based on the results at the Annual Examinations in the Senior Sophister year. More details of these prizes can be found at:

http://www.tcd.ie/calendar/undergraduate-studies/prizes-and-other-awards.pdf