The Third Year EEE/EIE B.Eng./ M.Eng.

Information for students finishing second year in 2017

Contacts:  Paul Mitcheson/David Thomas
Clare Drysdale
3rd year - overview

- Years 1 and 2 were about giving you core knowledge across all of EEE/EIE
- Now you get to specialise and concentrate on the things that you find the most interesting
- The good news – most people consider year 2 is the hardest
- In year 3 there is chance for an industry placement or a group design and build project for MEng, and individual project for BEng

What must happen for you to move from EE/EIE2 to EE/EIE3?
You need to know and consider:

- The differences between the degree streams
- The lecture courses on offer (you now have options…)
- The marking and coursework scheme
- The critical times for responses from you
Deciding Streams

Three year courses:
- B.Eng. EE
- B.Eng. EIE

Four year courses:
- M.Eng. EIE
- M.Eng. E&E Eng (Technology Oriented)
- M.Eng. E&E Eng with Management
- M.Eng. E&E Eng with Year Abroad
- M.Eng. EIE with Year Abroad

You have already chosen between EEE and EIE. Other choices are still open (but not for long)

https://intranet.ee.ic.ac.uk/electricalengineering/intrnl/chgstream.asp
Little difference in first two years – general material
Choice now is between 1 year or 2 years of specialisation
4th year courses are M.Sc. Courses
• about 40 E&E Eng options to choose from
• EIE students can also choose from around 10 DoC courses
M.Eng. EEE and EIE has an entrance requirement
• >50% in second year overall and >50% in Maths and no resits from EE2
• Year abroad requires higher grade (>55%, overall and in maths) and evidence of language skills for some cases.
M.Eng. or B.Eng. ?

- M.Eng. necessary for UK Chartered Engineer
  - [www.theiet.org/careers/profreg/](http://www.theiet.org/careers/profreg/)
  - Possible to become chartered with 2(ii) B.Eng plus an approved master degree

- Most countries in the world expect engineering degrees to be at least 4 years.
- Bologna declaration foresees European norm of 3-year Bachelor’s degree followed by 2-year Master’s degree for professional engineers
- A Master’s (M.Eng.) degree as a first degree not always understood outside UK – although with Bologna and ECTS this is not really an issue
Year Abroad Scheme

Students go abroad in their final year to one of the following:

- ENST Paris (for students specializing in Communication),
- Ecole Polytechnique,
- KTH (for students specializing in Power),
- KU Leuven,
- University of Rome "Tor Vergata",
- RWTH Aachen,
- ETH Zurich,
- TU Delft,
- ParisTech.
- University of California
- National University of Singapore.

Most up to date Information via the intranet and advice from Prof. Astolfi
www3.imperial.ac.uk/people/a.astolfi/teaching/yearabroad

- Final decision to go abroad is taken during the 3rd year
- Students need to follow technical stream in 3rd year if in E&E Eng
Structure of EE3 for BEng / MEng

Autumn Term
7 weeks of teaching
5 modules chosen from 13

Revision
(2 weeks)

Exams
(2 weeks)

Spring Term
9 weeks of teaching
3 modules chosen from 5

Course-work
(2 weeks)

B. Eng Summer Individual Project
(9 weeks)

M. Eng. Summer Group Project
(9 weeks)

M. Eng. Industrial Placement
(6 months)

Autumn term courses more theoretical, Spring term mostly practical
Basic Lecture Course Programme Requirements

- **B.Eng.**: 4 Autumn and 2 Spring term Technical Options, and 1 Business/Horizons (B/H) module (from any term)

- **M.Eng. (Tech + Yr Abroad)**: 4 Autumn and 3 Spring term Technical Options, and 1 B/H module in either term (all technical and business options will be examined before Easter)

- **M.Eng. (Management)**: 3 Compulsory business options (probably 2 Autumn 1 Spring), plus 3 Autumn technical and 2 Spring Technical courses (all tech/B options will be examined before Easter)
Basic Lecture Course Programme

- **B.Eng.**: 6 EEE/DOC Modules (at least 1 from each dept) and 1 B/H module

- **M.Eng. (Tech + yr abroad)**: 7 EEE/DOC Modules (at least 1 from each dept) and 1 B/H module. (All tech/Business will be examined before Easter)
Special Consideration for M.Eng course choices

• Your choices in third year affect the range of choices you can make in fourth year

• There are about 40 technical subjects in 4th year

• They are not evenly distributed across the topic areas: Comms, Sig. Proc. & Control & Power have lots of courses

• In general, you need third year courses as preparation for fourth year courses even if they are not strictly pre-requisites. This should influence your choice in third year. Check prerequisites.
Award of Honours for EE3/EIE3

• **For BEng:** Part III is worth 50% of your degree. Within this, the project is worth 35% and the 7 modules are equally weighted for the other 65%.

• **For MEng:** Part III is worth 22.2% of your degree. The modules are worth 80% of the year (equally weighted) and the placement/project is worth 20%.
Award of Honours for EIE 3

- **For BEng:** Part III is worth 3/6 of your degree. Within this, the project is worth 35% and the 7 modules are equally weighted for the other 65%.

- **For MEng:** Part III is worth 4/16 of your degree. Each module is worth 1/8th of EIE3. The project or placement count towards EIE4 (which is worth 6/16 of your degree in total with the placement being worth 1/16 of the degree, or 1/6 of EIE4.)
Register for courses

- Technical subjects are registered on the EE web pages (you will be notified over email when web site is ready)
  https://intranet.ee.ic.ac.uk/electricalengineering/intrnl/options.asp

- Horizons subjects are registered on the Horizons web pages and once confirmed you must then register the course on the EE pages. Horizons registrations open on 6th May (you will receive an email reminder).

- Business school options are also registered first on DSS and then with EE once confirmed. Management stream students will be pre-registered for their compulsory BS subjects. BS options registrations open around 16th May for Autumn term courses and around 21st May for Spring. Exact dates to follow on email. Register ASAP… Modules fill up quickly.
MEng EEE/EIE must decide whether to do an industrial placement or a summer term group project.
Industrial experience Options

- Six months industrial work placement

  OR

- Summer Term Industrial group project

**Why?** enhances your employability and gives industrial relevance to the academic content of your course

**What?** Industrial project directly relevant to your degree of study

**When?** *EITHER*
  - April – September 2018 – based in industry
  - April – July 2018 – based in College
<table>
<thead>
<tr>
<th>Action from student</th>
<th>When?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Last chance to register MEng management</td>
<td>End of Spring Term</td>
</tr>
<tr>
<td>(<a href="https://intranet.ee.ic.ac.uk/electricalengineering/intrnl/chgstream.asp">https://intranet.ee.ic.ac.uk/electricalengineering/intrnl/chgstream.asp</a>)</td>
<td></td>
</tr>
<tr>
<td>Confirm B.Eng / M.Eng</td>
<td>End of Spring term (with a window in Sept for</td>
</tr>
<tr>
<td>(<a href="https://intranet.ee.ic.ac.uk/electricalengineering/intrnl/chgstream.asp">https://intranet.ee.ic.ac.uk/electricalengineering/intrnl/chgstream.asp</a>)</td>
<td>changes)</td>
</tr>
<tr>
<td>Preparation of CV and Research companies</td>
<td>July onwards</td>
</tr>
<tr>
<td>Register intent for Industrial placement or group project</td>
<td>October</td>
</tr>
<tr>
<td>Finalise CV</td>
<td>October</td>
</tr>
<tr>
<td>Attend careers fairs, industry talks, make applications and attend interviews</td>
<td>October onwards</td>
</tr>
<tr>
<td>Deadline for industrial placement approval</td>
<td>End of Feb 2018</td>
</tr>
</tbody>
</table>
**Finding and applying for placements**

- Research and network
- CV drop-ins & workshops throughout Autumn/Spring terms
- Meet companies at the Dept Industry Fair – November
- Attend IndustrEEE talks
- Placements advertised via JobsLive and Department website
- Practice interviews available via Careers Service
- Preparation for assessment centres via Careers Service
Breakdown of 2016 Placements by sector

Industrial Placements 2016

- Technology Division of Finance
- Technical/Engineering consultancy
- Research
- Power, Oil & Gas
- Electronics, Design and Manufacturing
You find a placement – what next?

Your industrial placement is an important part of your studies

- it **must** be approved by the Department.
- relevant to your degree in technical/business or commercial content.
- Company must offer adequate Health, Safety and Insurance
- You will be able to take 15 days of leave during your placement
- For your EE3 accommodation, make sure you can vacate at the start of the Easter holidays
- There is a minimum of 22 weeks of full time work required (so your contract may typically be 24 weeks including 2 weeks holiday)
Important Considerations for Industry Placement

• If you are on year abroad stream – check that a placement will not clash with the start date at your overseas institution.

• For non technical subjects, it is up to you to make sure you are available for the assessment, if that assessment occurs in the summer term.

• We are unable to approve placements in countries that have travel warnings on the UK Foreign and Commonwealth Office Website.
College-based Group Project

• Summer term 2018 – April – end June

• Industrial relevance

• May be supervised by industry (but is done in college)

• Groups of 5 to 7 students – groups can be a mix of EE and EIE students

• Assessed in June with a presentation and report
Programme Advice

- You will have a meeting with tutor in first week of next academic year.
- Look through the course descriptions on the EE website.
- Your third year tutor is normally your first or second year tutor.
- Year Group Meeting: (probably) Monday of first week next year.
And Back to Exams...

Good luck in your exams!