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

Information for students finishing second year in 2019

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3rd year - overview

- Years 1 and 2 - core knowledge of EEE/EIE
- Now - specialise and concentrate on the things that you find the most interesting
- 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:

- Differences between the degree streams
- 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. EEE
- B.Eng. EIE

Four year courses:

- M.Eng. EEE (Technology Oriented)
- M.Eng. EEE with Management
- M.Eng. EEE with Year Abroad
- M.Eng. EIE
- 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 MSc. Courses
- about 40 EEE options to choose from
- EIE students can also choose from around 10 DoC courses
MEng. EEE and EIE have entrance requirements
- >50% in second year overall and >50% in Maths and no resits in year 2.
- 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

- Many countries in the world expect engineering degrees to be 4 or 5 years.
- A Master’s (M.Eng.) degree with Industrial placement is Bologna compliant as it give you sufficient ECTS. This is important if you wish to study further in a European University.
- Internships can also gain you ECTS which can go towards Bologna compliance.
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

- Final decision to go abroad is taken during the 3rd year
- Students need to follow technical stream in 3rd year

Select ‘MEng Technical’ stream, apply to Prof. Astolfi in October

Most up to date Information via the intranet and advice from Prof. Astolfi:

www3.imperial.ac.uk/people/a.astolfi/teaching/yearabroad
Basic 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
  - technical options will be assessed before Easter, Business in Summer term can clash with IP

- **M.Eng. (Management)**: 3 Compulsory business options (probably 2 Autumn 1 Spring), plus 3 Autumn technical and 2 Spring Technical courses (all tech options will be assessed 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 technical modules will be assessed before Easter. Business School have exams in Summer term.
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 4\textsuperscript{th} year

• 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 33.3% of your degree. The modules are worth 77% of the year (equally weighted) and the placement/project is worth 23%.

- To find out how your degree is assessed read **Award of Honours Document** on Dept. webpage at:
  
Register for courses

- Technical subjects are registered on the EE web pages (you will be notified through 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. Once confirmed you must then register the course on the EE pages. Horizons registrations open early 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 23rd May for Spring. Check your emails for instructions. Register ASAP… Modules fill up quickly.

- You must register all options by early September, both Autumn & Spring term
MEng Options

• **MEng EEE/EIE** - decide between an industrial placement or summer term group project

• *Interested in placement in Consultancy or Finance – suggest applying for a Spring Week in one of these institutions. More likely to be offered internships which can lead to placement offers*
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 2020 – based in industry
  April – June 2020 – based in College
## Timeline

<table>
<thead>
<tr>
<th>Action from student</th>
<th>When?</th>
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<tbody>
<tr>
<td>Last chance to register MEng management (<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>End of Spring Term (22\textsuperscript{nd} March)</td>
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<tr>
<td>Confirm B.Eng / M.Eng (<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>End of Spring term (22\textsuperscript{nd} March)</td>
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<td>Preparation of CV and research companies for placements</td>
<td>July onwards</td>
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<tr>
<td>Register intent for Industrial Placement or Group Project</td>
<td>September</td>
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<tr>
<td>Finalise CV</td>
<td>October</td>
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<td>Attend careers fairs, industry talks, make applications and attend interviews</td>
<td>October onwards</td>
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<tr>
<td>Deadline for industrial placement approval</td>
<td>End of Feb 2020</td>
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<tr>
<td>Prepare CV and apply now to Financial Organisations Spring Weeks</td>
<td>Now!</td>
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**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 recent placements by sector

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

Your industrial placement is an important part of your studies

• It must be approved by the Department.
• Must be relevant to your degree in technical/business or commercial content.
• Company must offer adequate Health, Safety and Insurance
• You are able to take 15 days of leave during your placement
• Minimum 22 weeks of full time work required (so your contract may typically be 24 weeks including 2 weeks holiday)
• You must be available to attend non-technical assessments in College if they are in Summer term (Business school)
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 your EE3 accommodation, make sure you can vacate at the start of the Easter holidays.

• 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 cannot approve placements in countries that have travel warnings on the UK Foreign and Commonwealth Office Website.
College-based Group Project

- Summer term 2020, April – end June
- Industrial relevance
- May be supervised by industry (but is done in college)
- Groups of 5 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 at the start of next academic year
- Look through the course descriptions on the EE website before meeting with your tutor
- Your third year tutor is normally your first year tutor
- Year Group Meeting: Monday or Tuesday of first week next year
Final points...

- College using a new student record system from August
- All modules will have new codes for 2019-20. We hope to publish new alongside old codes
- All 3rd year options must be registered by early September 2019 although amendable for a few weeks in October when you return to college and meet your tutor. Deadlines will be communicated through email.
- Now – meet in 407 - current 3rd yr students, International Student Services re visas, representatives from Business School and Horizons

Good luck in your exams!