

Introduction to Engineering Part II

Seb Savory

Director of Undergraduate Education

Course outline

Part I: foundations for all engineering disciplines

Structured course, coherent timetable for lectures, labs, examples papers.

Supervision timetables arranged by Colleges, usually with hand-picked supervisors.

Course outline

Part II: You determine the particular flavour of your course

You choose 10 modules from a list of over 40, across 9 Engineering Areas.

You make your own arrangements for coursework and projects.

Every module runs its own labs, examples papers and supervisions.

Your timetable will be much less structured, and you have to manage it actively.

Engineering Areas

There are very few constraints on your module selection for general Engineering.

You might want to select module combinations that allow you to qualify for one or more Engineering Areas.

Your CUED transcript will show all the areas
you qualify for

Expectations and standards

Part II students are expected to have:

- developed some **academic maturity**,
- learnt good independent **study skills** and
- be able to **self-organise**.

How does Part II compare in difficulty with Part I?

The work is **more difficult** but you'll find it more interesting.

You can focus on **subjects you like!**

Higher standards expected because you are getting better!

Still the same % in each class (30% First, 50% II.1)

How do modules work?

16 lectures,

3 examples papers,

3 supervisions + 1 revision supervision

Coursework (lab, or other exercise) + often Full
Technical Report.

You have to:

Book yourself in to do a lab (on-line, or paper signup)

Aim to do some labs early in the term

Write up the lab, hand-in for marking, attend sign-up session (often a scheduled feedback session for a big group of students)

Supervisions

3 examples papers, 3 supervisions, plus one revision supervision

Supervisors should contact students to arrange supervisions: often arrangements are made using Moodle, or may be paper-based.

You must be organised and pro-active: your group may be with people you don't know, so effort is involved to agree on times.

Some supervisors are excellent. If your supervisor is *completely* hopeless, contact the module leader or your DoS *immediately*

Some management modules offer no supervisions, but instead timetabled classes for the whole group.

Coursework

You must submit **8 pieces of module coursework** (5-6 h each)

You must do two **Full Technical Reports**, including at least one in Michaelmas (10-15 h each)

Deadline for Full Technical Reports is now out of term,
Wed week 9, 4pm

You must do one Extension Activity (ExA), for standard credit (20 marks). (up to 20 h)

You must do 2 projects in Easter Term (after exams):
choose at the end of this term (~80 hours per project).

Examinations Part IIA

10 modules; examinations **start of Easter term.**

Exams will be taken in CUED this year.

Mainly 90min single module exams; a few double module 3h exams.

Historic rank order is used to create guideline proportions for numbers in nominal classes

Allows the average level for each module to take account of the mean historic performance of the entry cohort

Key communication skills

You are expected to know how to:

- Write a report
- Prepare high quality figures
- Typeset equations (consider learning LaTeX?)

The department is currently developing additional resources to support your communication skills.

Plagiarism and Academic Misconduct

- Last year the University revised its guidance on Plagiarism and Academic Misconduct which can be found at <https://www.plagiarism.admin.cam.ac.uk>
- The University defines academic misconduct as “any practice that may unfairly advantage a student’s academic assessment” (which includes plagiarism).
- Suspected cases of Plagiarism and Academic Misconduct will be handled by the Director of Undergraduate Education in conjunction with the relevant Chair of Examiners. This may result in the case being referred to the University’s Office of Student Conduct, Complaints and Appeals for consideration under the disciplinary regulations.
- It is not worth jeopardising your degree by cheating with coursework! (consider also what reference a DoS can provide once a case of plagiarism has been detected)

- Finding materials
- Using online library resources
- Copyright
- Referencing Support
- Plagiarism Avoidance