The Engineering Tripos comprises a two-year Part I followed by a two-year Part II. All CUED undergraduates study the same subjects for their first five terms. There is an element of choice in the sixth term, and in Part II students specialise in a chosen engineering area.

NB. Throughout this guide 'week' refers to Thursday to Wednesday of the normal teaching term.

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Aims & objectives

Teaching aims

The aims of Part I of the Engineering Tripos are to encourage and enable students to:

- develop a sound understanding of the fundamentals of engineering science across a broad range of engineering disciplines;
- acquire basic skills in modelling and analysis and the ability to solve straightforward technical problems;
- acquire basic design skills and the ability to create simple engineering designs using a multi-disciplinary approach;
- develop an awareness of the responsibilities of engineers in economic, social and environmental matters;
- develop practical skills and the ability to conduct and evaluate experiments;
- learn to create, use and evaluate computer software;
- develop communication skills, both oral and written;
- develop cooperative skills through group and teamwork activities;
- acquire basic study skills and develop independence of learning;
- develop a responsible and professional attitude.

General objectives

At the end of the Part I course students should:

- by means of lecture courses, associated examples papers and appropriate reading have learnt the fundamental principles of engineering science;
by means of laboratory courses have witnessed phenomena associated with the material in the lecture
courses, have gained an understanding of experimental methods and have experience of experimental
techniques;
by means of practical computing courses be able to create and evaluate software;
by means of projects have been introduced to research and design;
by means of a course in exposition and subsequent practice have developed powers of presentation both
orally and in writing;
by means of lecture courses, occasional lectures, essay assignments and industrial experience have
gained an introduction to manufacturing, management and the economic, environmental and social
responsibilities of engineers.

The progress of each undergraduate is measured by Tripos examinations and by assessed coursework. Tripos
classes and details of marks are notified to undergraduates through CamSIS or by their Colleges, and progress
with coursework is communicated by staff marking individual coursework activities.

Achievement of the general objectives is dependent on an undergraduate reaching detailed objectives set for
individual activities of the course. These are listed in the syllabuses for each series of lectures and the instruction
sheets for coursework.

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Part IB structure

Lectures

The 8 papers in Part IB are taken by all students. Papers 1-7 are of 2 hours' duration. Paper 8 is of 2.5 hours'
duration, except for those students who have chosen to take a foreign language assessment, where it is of 1.5
hours' duration. The papers are:

<table>
<thead>
<tr>
<th>Paper 1</th>
<th>Mechanics (16 lectures)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paper 2</td>
<td>Structures (20 lectures)</td>
</tr>
<tr>
<td>Paper 3</td>
<td>Materials (16 lectures)</td>
</tr>
<tr>
<td>Paper 4</td>
<td>Thermofluid mechanics (26 lectures)</td>
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<tr>
<td>Paper 5</td>
<td>Electrical engineering:</td>
</tr>
<tr>
<td></td>
<td>Linear circuits and devices (8 lectures)</td>
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<tr>
<td></td>
<td>Electrical machines (10 lectures)</td>
</tr>
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<td></td>
<td>Electromagnetic fields and waves (6 lectures)</td>
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<tr>
<td>Paper 6</td>
<td>Information engineering:</td>
</tr>
<tr>
<td></td>
<td>Linear systems and control (14 lectures)</td>
</tr>
<tr>
<td></td>
<td>Signal &amp; data analysis (7 lectures)</td>
</tr>
<tr>
<td></td>
<td>Communications (7 lectures)</td>
</tr>
<tr>
<td>Paper 7</td>
<td>Mathematical methods:</td>
</tr>
<tr>
<td></td>
<td>Vector calculus (14 lectures)</td>
</tr>
<tr>
<td></td>
<td>Linear algebra (8 lectures)</td>
</tr>
<tr>
<td></td>
<td>Probability (6 lectures)</td>
</tr>
<tr>
<td>Paper 8</td>
<td>Selected topics:</td>
</tr>
<tr>
<td></td>
<td>Electives (14 lectures)</td>
</tr>
<tr>
<td></td>
<td>Compulsory section: The Engineer in Business (8 lectures)</td>
</tr>
</tbody>
</table>

(i) Civil & structural engineering  Design and construction of underground space
(ii) Mechanics, materials and design Mechanical engineering for renewable energy
(iii) Aerothermal engineering | Design of a jet engine
(iv) Electrical engineering | Micro- and nano-electronic devices
(v) Information engineering | Photo editing and image searching
(vi) Bioengineering | Engineering of the human eye
(vii) Manufacturing, management and design | Bringing technology innovations to market

All lectures for Papers 1-7 are scheduled during the Michaelmas and Lent terms, and have associated experimental work, and examples classes. Colleges arrange supervisions on these topics.

Paper 8

Paper 8 consists of engineering activities taught in the context of design, and is divided into seven electives with the topics shown above. Students not taking a foreign language for credit are required to answer questions from two electives. Students who have chosen to take a foreign language for credit are required to answer questions from one elective. Students will not be required to specify which topics they intend to follow and may attend more than two courses if they wish - this is particularly useful to help decide which courses to focus on the examination. Each course has 16 timetabled slots (4 per week), equivalent to 14 lectures and 2 examples classes - although in some cases explanation of examples may be spread throughout the course. There will be the equivalent of two examples papers per topic with fully worked solutions being made available for students to see. There are no supervisions for these courses. The material in these selected topics is not a prerequisite for third-year courses, although some preliminary reading may be expected by those who have not taken a topic. The material in the electives is not considered prerequisite for Part IIA courses (although some preliminary reading may be expected by those who have not taken a particular elective).

In addition, all students are required to answer the multiple-choice compulsory section ‘The Engineer in Business’, lectures for which are given in the Lent term. Lectures for all the other sections are given during the first four weeks of the Easter term. There are two examples papers per elective, for which fully worked solutions are available to students and examples classes included in the lectures. There are no supervisions for Paper 8.

Language programme for engineers

Students who take the language programme for engineers in Part IB may offer this course as one of their two options in Paper 8, and they may choose to enter for a language certificate. The certificate will record the level of their course (i.e. beginners’, intermediate or advanced) and the standard achieved.

Students who wish to offer the Language Option as one of their electives should inform the Language Programme Director Dr David Tual and the Centre’s Administrator as well as their Director of Studies, no later than Monday of week 7 in the Lent term. No applications to offer the language option will be accepted after this date.

Examples papers and examples classes

One examples paper is issued for about every four lectures according to the termly schedule. The material is followed up in examples classes and College supervisions.

The schedule for the examples paper release and examples classes, as well electronic versions of the papers, can be found on the Examples paper Moodle page. Solutions (cribs) of each examples paper will be made available to students online after the corresponding examples class.

Students are required to register for examples classes they wish to attend on the Examples paper Moodle page. If fewer than five students have signed-up for a class by 3pm on the day before, the class will be cancelled.

Coursework

See the Part IB coursework overview for an outline of the activities, together with the timetabled sessions allocated to them.
Part I labs & coursework: general info

Coursework credit

Coursework in Engineering includes lab work and projects, plus a number of other marked assignments.

In Parts IA and IB, all coursework is for standard credit, which means that once students achieve a satisfactory standard in the various groups of activities the associated marks are capped at the qualifying level. Students who fail to reach the qualifying marks, or who fail to attend or hand in certain coursework, will have the shortfall deducted from their total in the Tripos. The marks available and qualifying marks are shown in the Faculty Board Part IA and Part IB coursework and exam credit notices.

The standard credit scheme has been designed to encourage students to attend coursework sessions punctually, to complete each laboratory-based activity within an appropriate time to a satisfactory standard so as to achieve the main objectives of the activity, and to submit any written work for marking within a specified timescale.

The system aims to help students by discouraging them from spending an inordinately long time on any one coursework activity, at the expense of other aspects of their study. It also encourages innovation in design work, as there is not an undue loss of marks for a less successful outcome.

The majority of students are expected to gain the qualifying standard.

General guidelines

- **Charts** in the individual lab expand the lab/coursework schedule into particular activities. Check beforehand that you know the location of your next exercise.
- **Penalties** apply for students arriving late to labs.
- Be aware of the procedure for **rearranging missed coursework sessions**.
- Read the **lab safety instructions below** and observe any special instructions on safety in individual labs. You should bring safety glasses, issued at the start of the year, for all materials labs (in the Lent and Easter terms) and for the structural design course practical work. You may be excluded from labs if you do not bring them.
- Students are advised to read the handout for the experiment online before attending the lab session. Printed copies of the handout will be available at the start of each lab.
- For much of the Part I lab work in the Lent and Easter terms you will need to use your lab book for recording data and taking notes during laboratory experiments. You are encouraged to word-process lab reports, which should be glued or stapled into your lab book.
- Experiments are classified as either **short** or **long**:
  - A short experiment occupies a 2-hour period and is completed and signed-up in that time.
  - A long experiment occupies 2 hours in the lab and is then written up as a report.
- Any urgent **problems** with an experiment or exercise should be reported to a demonstrator or the lab leader in charge of the laboratory.
- The report for each long lab should be set out in the lab notebook provided at the start of the year. Your report, together with that of your partner, will be **marked** by a demonstrator at a signing session. This must take place within 15 days of the date of the experiment.
- **Signing** sessions should be booked during the blank periods on the lab schedule. Demonstrators will give guidance on the form and content of the report expected for a particular experiment. It is important that you bring your lab notebook with you to each long experiment.
- **Credit** for the satisfactory performance of a short experiment is 2 marks. Credit for a long experiment is on the scale 0-6, with 4 marks for completion of the experiment and minimally acceptable work, 5 marks for satisfactory work and 6 for exceptional work. Late submission of a report incurs a deduction of 1 mark for each week, or part of a week, after the due date.

Lab safety instructions

1. No eating, drinking or smoking is allowed in the labs or drawing or computing areas.
2. You should always comply with the safety instructions either issued by a demonstrator or displayed on notices alongside equipment.
3. You should bring your safety glasses to all labs and wear them when needed.
4. Do not put scarves, coats, etc., on the benches or stools; hang them up on the racks provided.
5. Do not put books, cases, etc., on top of electrical equipment; overheating with consequent damage may result.
6. Do not wear loose clothing or scarves near rotating machinery.
7. Do not take leads, components or equipment from other lab locations. All the apparatus you need should be present; if it is not ask a demonstrator.
8. At the conclusion of an experiment leave the apparatus as you found it. Report any faults in the equipment which you use. If all faults are speedily reported you should seldom find faulty equipment.
9. Observe special instructions on safety which are posted in the individual labs.
10. Finally, if you run into difficulties, don’t waste time, ask a demonstrator.

The lab record and long report

It is essential that you bring your lab notebook with you whenever you are timetabled to perform a long experiment. The notebook should be used to record all the readings, observations and calculations that you make, unless the instruction sheet specifically states otherwise. Do not use loose sheets of paper: these are easily misplaced. Charts and other records should be glued or stapled into your notebook.

Your lab record should start on a new page for each experiment performed. It should follow good professional practice and be correctly headed and dated. When there are several readings to enter, arrange these in tabular form, and make sure that the column headings show the quantity measured and the units used. Decide on how many columns you need and set out the table before you start taking readings. Whenever feasible, plot graphs as the experiment proceeds so that serious divergence from the expected behaviour can be checked there and then. Label the axes of the graphs and, where appropriate, indicate the accuracy of the data points on the graph.

The “report writing guide” covers all aspects of report writing in the Engineering Tripos. Specific sections are introduced via IA Exposition classes. For experiments and reports in Part I, you are referred in particular to the following sections:

- Report writing in the Engineering Tripos: long lab records and reports
- Introduction to technical writing: integrity, record-keeping, plagiarism and referencing

Difficulties with the lab report

If you need advice on a particular aspect of your report or you are otherwise held up on some point, then seek help. You can obtain help from a demonstrator in the laboratory or your supervisor. Do this in good time and you will not be rushed into producing an unsatisfactory report.

Copying the work of others is unacceptable. However, discussing your work with colleagues, supervisors or demonstrators is encouraged and can bring about improvements to the standard of the report you submit. The report itself must be your work, written in your own words. Students who submit the work of others as their own will have their reports referred to the appropriate authorities.

Feedback on labs & experiments

If you have comments about any experiment, please tell us about them using the fast feedback facility. Urgent problems with an experiment should be reported immediately to a demonstrator or senior technician in the lab, or contact the member of staff in charge of the lab. Please be constructive in your comments and suggestions.

You should be given 5 minutes during lab time to complete a short survey on each activity. Please do so as this gives us the information that we need to improve the activities in the future.
Part IB coursework & labs overview

Introduction

Outlines of the Part IB coursework activities and experiments are given below, together with the number of timetabled sessions allocated to them.

Also see the general information about Part I labs & coursework.

Integrated coursework

An integrated coursework activity links four of the short labs (in vibration, structures, soils and signal processing) together round the common topic of “earthquake-resistant structures”, with students choosing one extension activity to pursue in more depth, leading to a report and presentation.

It consists of:

1. an introductory lecture to set the scene and define the problems;
2. 4 short experiments in vibrations, soil mechanics, signal processing and structures including a risk assessment;
3. an extension exercise, in which you will design and conduct a follow-up to any aspect of the short experiments (taking 1-2 lab sessions);
4. a report and short presentation on your extension activity.

The integrated coursework runs over a four-week period, in the term in which you are not doing the IDP. The goals of this lab are to make the coursework open-ended and inter-disciplinary, to relate the labs more closely to Part IA and IB lectures, and to promote teamwork and presentation skills.

Computing

The Michaelmas term computing course introduces students to microprocessor programming using C++ as the primary language.

Integrated design project

Students work in teams of six to design, build and test a mobile robot vehicle as an integrated design project (IDP). Various tasks, typical of those faced by the automated guided vehicles used in modern manufacturing plants, are set for the vehicles. Each team member is individually responsible for a particular sub-system, e.g. structure and drive train, power supply, sensors, electronic control or software integration, as well as contributing to the overall system design and optimisation. The project builds on Part IA teaching in electronics, computing, mechanics and structures, and aims to develop teamwork and communication skills. Students spend three two-hour sessions for four weeks working on this project. The resulting vehicles are tested in a competition to determine the best. Assessment is by quality of the robot vehicle and of team, sub-team and individual reports.

For further details see the IDP website on Moodle.

Sustainable engineering

In the Michaelmas term, a series of five lectures presents contemporary applications of the different disciplines to sustainable engineering. The lectures are delivered by a mixture of internal and external speakers and provide an opportunity to hear first-hand from some of the most influential workers in the field. Assessment is through a poster on a topic selected by the student, prepared over the Christmas vacation and presented to a small group of students in the Lent term.

For further details see the sustainable engineering Moodle page. Coursework instructions will be given during the
lecture course.

Coursework activities

<table>
<thead>
<tr>
<th>Term</th>
<th>Coursework</th>
<th>No. of timetabled 2-hour (morning) lab sessions + afternoons</th>
</tr>
</thead>
<tbody>
<tr>
<td>Michaelmas and Lent</td>
<td>Experiments</td>
<td>16 plus sign-up for long labs</td>
</tr>
<tr>
<td></td>
<td>Computing</td>
<td>Optional helpdesks (schedule on Moodle)</td>
</tr>
<tr>
<td></td>
<td>Integrated coursework</td>
<td>5 + 2 or 3 morning/afternoon</td>
</tr>
<tr>
<td></td>
<td>Integrated design project</td>
<td>13 + 1 afternoon lecture</td>
</tr>
<tr>
<td>Christmas Vacation</td>
<td>Poster on ‘sustainable engineering’</td>
<td></td>
</tr>
</tbody>
</table>

Aims and purposes of Part IB labs

- To acquire practical skills from using different types of equipment and a variety of measuring techniques and to develop a critical approach to assessing the limitations and accuracy of the methods used.
- To learn to work to a sensible number of significant figures.
- To obtain direct experience of physical phenomena, such as the annealing of a metal or the reflection of an electric wave.
- To learn more deeply by doing. Lab work is designed to reinforce the treatment of topics covered in lectures.
- To foster interest and understanding in the subject through practical work that demonstrates engineering applications.
- To gain experience of situations where practical experiments are better than mathematical methods for solving problems.
- To develop an awareness of the limitations of mathematical modelling by testing the validity of models and the assumptions on which they are based against physical observation and experiment; and to reject unsatisfactory models and assumptions if necessary.
- To acquire presentational skills through practice in (a) recording accurately and in a professional manner observations made in the laboratory and (b) writing concise accounts of what has been observed, the significance of the results and the conclusions that can be drawn.
- To develop skills in organisation and co-operation through working in pairs or in larger groups on a common task to meet a specified deadline.
- To develop an awareness of the safety of the individual and the group through the safe and careful operation of potentially hazardous equipment.

This is a long list of aims to be achieved, and others could be added to it. Remember that departures from expected behaviour can be more interesting and thought-provoking than results that fit the predictions exactly. Experiments are the physical reality: if you find that to within the accuracy of your measurements there are discrepancies within the theory, then it is the theory or more likely the assumptions on which it is based that are wrong. Respect your measurements and remain sceptical about theories until the physical evidence is convincing.

Experiments (Michaelmas/Lent terms)

All students undertake 20 experiments, as listed below. There is a mixture of long and short experiments.

<table>
<thead>
<tr>
<th>Associated paper (interdisciplinary)</th>
<th>Experiment number and title</th>
<th>Long or short</th>
</tr>
</thead>
<tbody>
<tr>
<td>Integrated coursework</td>
<td>A1. Dynamic vibration absorber</td>
<td>S</td>
</tr>
<tr>
<td></td>
<td>A2. Model structures</td>
<td>S</td>
</tr>
<tr>
<td></td>
<td>A3. Soil mechanics</td>
<td>S</td>
</tr>
<tr>
<td></td>
<td>A4. Fourier signal analysis</td>
<td>S</td>
</tr>
</tbody>
</table>
### Lab handouts

All the introductory information regarding laboratories, as well as handouts for ALL of the experiments are available on moodle.

It is important that you take the time to read through the documentation on that page and to consult the handout for each experiment PRIOR to the day of the laboratory. Hard copies of handouts will be available in each laboratory.

At your first laboratory, please ensure that you collect a copy of the handout for that experiment.

All lab leaders and technicians have been made aware of this procedure and will have the relevant materials ready for collection.

### Lecture & lab start times

#### Lectures

Lectures run from five minutes past the hour to five minutes to the hour, with the following exception:

**Part IA and IB lectures in LT0 will start promptly at 9am and 10am.** Lecturers will start lecturing at precisely 9am in order to fit in the full 50 minutes of teaching that they need to deliver:

- First lecture 09.00-09.50 (non-standard)
- Second lecture 10.00-10.50 (non-standard)
- Third lecture 11.05-11.55
- Fourth lecture 12.05-12.55

This schedule allows LT0 to empty and refill at 11am. Students should leave LT0 by the doors at the front and on the North side at the back (leading to the roadway), allowing students to enter from the foyer and the courtyard.
Labs
Morning laboratory/coursework sessions begin at 5 minutes past the hour.

Afternoon activities start on the hour.

Part IA & IB lateness penalties
Morning laboratory/coursework sessions begin at 5 minutes past the hour.

Afternoon activities start on the hour.

1. Students arriving up to 10 minutes late will be penalised 1 mark for late arrival, but may be excluded entirely at the discretion of the demonstrator in charge.
2. Students arriving more than 10 minutes late, will be automatically excluded from any laboratory experiment. For other coursework activities (e.g. computing, drawing etc.) the student may, at the discretion of the demonstrator, be allowed to take part in the activity, but will be penalised for late arrival.
3. Students who arrive late due to circumstances beyond their control should first try to rearrange the coursework activity. If this is not possible they may make an application for recovery of marks using the standard allowance procedure.

Rearranging coursework & allowances: general rules

Introduction
Although we expect students to attend all lab sessions and respect coursework deadlines, there may be a number of reasons why such commitment may not be honoured. Students experiencing difficulties should seek appropriate support as soon as possible. Their Tutor will have to approve any allowance request and should be kept in the loop.

The Faculty Board of Engineering has issued the following guidelines about the circumstances under which coursework activities may be rearranged or allowances granted. The Head of Department delegates all the responsibilities mentioned in this document to the Director of Undergraduate Education. All forms are processed via the Teaching Office.

Points to consider

1. Students should make all reasonable efforts to complete any missed exercises at a later date and so must first try and make rearrangements with the lab leader.
2. Applications should be made at the time rearrangement proves not to be possible, and at latest by the end of the relevant term.
3. Any application for an allowance must be made on the standard form. This form must be completed in full by both student and Tutor. The Tutor may be required to submit supporting medical evidence (e.g. if the period affected is over 7 days).
4. Forms should be submitted as soon as it is clear that an allowance may be required.
5. A total allowance of more than four weeks coursework will not normally be given, in any year.

Types of allowance
The granting of an allowance implies either:

1. an extension of the scheduled period for completion and submission of an activity (applicable to both standard credit and positive credit activities); or
2. the allocation of a number of marks for the activity missed, if it proves impossible to rearrange or catch up the activity. For standard credit activities, the mark allocated will normally be the qualifying mark for the activity. For positive credit exercises, any mark allocated will depend upon the student’s performance in related assessed activities.

In all cases, the Director of Undergraduate Education will consider the allowance form submitted by the student and Tutor, and decide upon the type and extent of any allowance to be made. These are incorporated in the final coursework marks sent to the Chairmen of Examiners. The Teaching Office will notify the Tutor and the student of the outcome of any application.

Allowances for individual activities are described in more detail for each Part:

- Parts IA and IB
- Part IIA
- Part IIB
- MET Parts IIA and IIB

Reasons for arranging coursework

Reasons for seeking to rearrange coursework fall into one of the following five categories:

**Illness**

Educationally it is always preferable to rearrange coursework missed through illness, and this should be attempted wherever practicable. If rearrangement is not possible, then students should apply for the appropriate allowance.

‘Illness’ is broadly defined as any illness, mental health problem, physical injury or other grave cause which, in the opinion of both the student’s tutor and the Director of Undergraduate Education, prevents the student from completing their scheduled coursework activities on time, or in some cases at all.

**Compassionate or religious grounds**

Students will, wherever practicable, be allowed to rearrange coursework on compassionate or religious grounds (for instance, to enable them to attend a funeral, or because the coursework is scheduled on the day of a religious festival). The student concerned should try to rearrange the coursework in advance. If rearrangement proves impossible, then an application for an allowance may be made with the support of the student’s tutor.

**Interviews**

When applying for jobs, work placements or sponsorship, students may be invited for interview on days that conflict with coursework activities. Students should in the first instance seek to rearrange the interview rather than the coursework. If this proves impossible, then the student should try to rearrange the coursework. Allowances are not normally given for coursework missed through interviews.

**Sporting commitments**

Coursework may not be rearranged to accommodate College sporting commitments. Students will, wherever practicable, be allowed to rearrange coursework that conflicts with University sporting competitions (i.e. representing the University of Cambridge in a competitive event) but not for training sessions.

**NB.** Allowances are not normally available if such rearrangement is possible.

**Other reasons**
If a student wishes to seek to rearrange coursework for any reason not covered by the four categories above, they should discuss the matter with the Director of Undergraduate Education.

**How to rearrange coursework**

**Part I coursework**

For Part I coursework (including sign-up sessions) students should identify an appropriate replacement slot in the timetable, in discussion with the appropriate chief technician, and then clear this with the lab leader in charge of the activity.

Contact details of lab leaders and technicians are available online: IA, IB.

**Part II coursework**

For Part II coursework, students should contact the staff member in charge of the coursework activity (e.g. lab/EAA leader or module leader). Wherever possible, arrangements should be made in advance – failure to do so when the need for rearrangement was foreseeable may result in the request being refused. In some cases, it may be necessary to apply for an extension to a deadline to allow coursework to be completed.

**What to do if things go wrong**

We hope that your time in the Department goes smoothly, but there may be occasions when you need additional support for academic, personal, health-related or practical reasons. See the ‘what to do if things go wrong’ page for further information.

**Good academic practice vs academic misconduct (including plagiarism)**

The University provides guidance on Plagiarism and Academic Misconduct which can be found at https://www.plagiarism.admin.cam.ac.uk, where academic misconduct includes 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, which may result in the case being referred to the University’s Office of Student Conduct, Complaints and Appeals for consideration under the disciplinary regulations.

You should read and ensure that you understand the Department's guidance on avoiding academic misconduct, which covers:

- definition of academic misconduct
- plagiarism avoidance: expectations of all students
- distinguishing between cooperation and cheating
- sources of guidance on academic integrity, record keeping & referencing

If you have any queries please speak to your DoS.

**Exam information**

See the practical exam information page for details of:
the exam period, location & timetable
preparing for exams
documents & equipment allowed during exams
the day of the exams
after the exams

You may also be interested in:

the Guidelines for Examiners and Assessors: Part IA, Part IB
the Department's statement on assessment types for an explanation of the differences between formative and summative assessment activities and details of how you can expect to receive feedback on your performance throughout the course.

Intermission

Guidance notes

The Tripos regulations allow students to apply to intermit between Part I and Part II (i.e. after Part IB), or between Part IIA and Part IIB, by making 'a reasoned case' for consideration by the Faculty Board. This case should outline your plans for the year and how these will contribute to your professional development and education. Typical examples of approved plans include internships with engineering firms, which will enhance the student's skills and knowledge for their Part II specialism.

Application process

Students complete Section A of the intermission application form and forward it, together with the offer letter from the organisation with which they have secured a placement/internship, to their Director of Studies by 15 April.

The Director of Studies should complete Section B and return the completed form and offer letter to faculty-board-office@eng.cam.ac.uk by 1 May.

Faculty Board approval

The Faculty Board will consider intermission applications at its first meeting in Easter Term. Applicants and their Colleges will be notified of the outcome of the Faculty Board’s decision by email.

Progression through the Tripos

A summary of the results that students must obtain to continue with the next part of the course is available at this link. Formal and detailed information about progression requirements is contained in Statutes and Ordinances.

Accreditation

All the four-year MEng courses offered by the Department of Engineering are accredited by one or more of the professional engineering institutions, depending on the engineering area studied.

Students are also strongly encouraged to become student or affiliate members of the professional institutions which particularly relate to their interests.

For further details of the accrediting bodies, membership benefits and contact officers within CUED see the Accreditation of the MEng.
How to give feedback on the course

Your feedback is essential for informing the development of the Tripos. Staff take it very seriously and every year it leads to real changes, for example:

- the introduction of the Dyson Centre
- the redesign of the Department’s Library
- extending the Part IB exam period
- introducing more practical Part I lab sessions
- more staff training on supporting students with mental health difficulties.

We appreciate that it can feel like you are being bombarded with requests to complete surveys see our page on student surveys and giving feedback on the course for details of the feedback mechanisms which the Department particularly values. These include the fast feedback facility, course-specific and national surveys and the best lecturers awards.

Please ensure that all comments comply with the Department's code of conduct for survey respondents.

Inclusive teaching

The Department’s approach

The Equality Act (2010) requires higher education institutions to take positive steps to make their education accessible to disabled students and to make ‘reasonable adjustments’ to provision to ensure that disabled students are not disadvantaged. Disabilities may include physical or mental impairments: the majority of these students have specific learning difficulty (SpLD) in the form of dyslexia. The University has a Code of Practice on Reasonable Adjustments for Disabled Students and the Disability Resource Centre has some standard recommendations for appropriate academic support for such students. Further provision may be required in particular cases.

In an organisation of our size and complexity, individual variations in provision are potentially disruptive. However, many of the suggested adjustments are just good educational practice, so represent things we should be doing anyway as a Department that takes pride in the excellence of its teaching. Indeed, we already follow many of the recommendations (e.g. provision of cribs). The approach we have adopted is therefore to aim to have inclusive standard procedures for all teaching activities. Students are expected to make use of available resources to suit their needs, and to contact staff themselves (e.g. lecturers, lab leaders) if additional material is required.

The syllabus pages will give you lecturer details for part IA and part IB lecturers. Lab leader details can be found here for IA and IB.

Contact details of part II lecturers can be found on the relevant syllabus pages.

Any enquiries should be addressed to the Director of Undergraduate Education.

Faculty Board recommendations

- Electronic versions of handouts should be made available online 24 hours in advance of lectures or other teaching sessions (e.g. labs). [This allows students who do have special requirements to produce their own customised hard copy if they wish: e.g. single-sided; large format; non-white background].
- Filled-in versions of notes should be made available online after lectures, ideally within a week but certainly by the end of term.
- Recording lectures (audio) is often recommended to students as a learning aid. Students are permitted to
use the recording only for their own personal study, and acknowledging IP and copyright. Lecturers are asked to consent to their lectures being recorded under these conditions.

- In labs, instruction should be provided in both written and verbal form.
- Lecturers should remember to pay attention to ‘signposting’ e.g. statement a start of each lecture of what is being covered; tracking progression throughout lecture; summary of main teaching points at end.
- All staff should make particular effort to put new vocabulary into context and explain new concepts. It is helpful to provide some repetition.

**Sensus Access**

Sensus Access is a free self-service facility which is designed to allow disabled students and staff (or those supporting them) to create accessible alternative formats of inaccessible digital documents. Further information is available on the [Disability Resource Centre’s website](http://www.disabilityresourcecentre.ac.uk).

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**Course material on Moodle**

Most of the Department's courses have a page on the [University's Virtual Learning Environment Moodle](http://moodle.eng.cam.ac.uk). These pages are maintained by course lecturers. Students registered to these courses are automatically enrolled at the start of the course and can engage in the course activities, including coursework submission when appropriate.

Other members of the University, staff or students, can self-enrol as observer and gain access to handouts and other documents made available to the students by the lecturers. This access is provided to students so that they can make an informed decision regarding their course selection. There might be copyright restrictions to the course material; any use of the course content that is not related to students education is not allowed. The material should not be redistributed by the students in any circumstances.

A key is needed to self-enrol on any course. By using this key, you indicate that you agree with the condition above.

**Enrolment key: cued_moodle_access**

You may wish to look at our 'getting started' guide.

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**Departmental facilities and rules**

See the [facilities and rules](http://www.eng.cam.ac.uk) page for information about access to the Department, departmental rules and facilities such as the computer system and The Centre for Languages and Inter-Communication etc.

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**Dyson Centre**

**Private engineering project space, training and student team space**

The Dyson Centre for Engineering Design (not to be confused with the James Dyson Building) is your space as Engineering Undergraduates, where you can undertake your own private engineering projects and experiments, and a space in which engineering students teams can operate.

The area offers training in use of a variety of machines including lathes, milling machines, laser cutters, and there are also self-service 3D printers which you can learn how to use.

Various funding sources are available to help you kick start your project and the staff are on hand to offer help and advice with all aspects of engineering theory, development and design.
For more information see www.dysoncentre.eng.cam.ac.uk

Also of note is Engineering Stores, where a vast range of engineering materials and components are held in stock for immediate purchase, details are available on:

http://www.dysoncentre.eng.cam.ac.uk/stores

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