Part IA guide

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.

### Part IA structure

#### Lectures

Lectures are timetabled throughout the Michaelmas and Lent terms, and the first four weeks of the Easter term.

All students take the same four 3-hour examinations at the end of their first year. These papers and the lecture courses examined in them are:

- **Paper 1**  
  Mechanical engineering  
  - Mechanics (16 lectures)  
  - Mechanical vibrations (12 lectures)  
  - Thermofluid mechanics (24 lectures)

- **Paper 2**  
  Structures & materials  
  - Structural mechanics (24 lectures)  
  - Materials (20 lectures)

- **Paper 3**  
  Electrical & information engineering  
  - Physical principles of electronics, electromagnetics (12 lectures)  
  - Linear circuits and devices, AC power (22 lectures)  
  - Digital circuits and information processing (16 lectures)

- **Paper 4**  
  Mathematical methods  
  - Mathematics (40 or 32 lectures)*  
  - Computing (2 lectures + coursework lectures)

*Note on the fast & standard mathematics courses*

The Michaelmas term mathematics course is given in two different versions: a standard course (three lectures per week) and a fast course (two lectures per week). Both will cover the same syllabus, and will use the same examples papers.

The fast course is aimed primarily at those who have taken maths and further maths at A-level and have good mathematical fluency, so they may already have seen some of this material. The standard course aims to cater for those with less prior training in mathematics, especially those with only single mathematics A-level. The lecturers will endeavour to keep in step, so that it will be possible to swap courses for particular broad topics. Attend the first lecture which most suits your background, and the lecturer will explain the arrangements in more detail.

#### Engineering applications (8 lectures)

These sessions illustrate the applications of engineering principles in the widest possible context over a broad
Examples papers and examples classes

One examples paper is issued for about every four lectures, on Wednesdays 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 as 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 no student has signed-up for a class by 4pm on the day before, the class will be cancelled.

Coursework

Important engineering skills are developed in a wide variety of coursework exercises. The Michaelmas term includes induction activities which lay foundations for the rest of the course.

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 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.

Finally please complete the coursework section of the online survey during the year.

Part IA coursework & labs overview

Introduction

Outlines of the Part IA 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 above.

Lego Mindstorms

Part IA coursework starts with an intensive, hands-on activity using Lego Mindstorms. For the first week, students work in groups of three to design and build a simple electro-mechanical device, based around a number of sensors and actuators. The exercise is open-ended and fun, giving an immediate awareness of the integrated nature of real-world engineering, involving software, mechanical and electrical components, teamwork, and communication skills.

There are ten timetabled hours in the lab & coursework schedule, but students may wish to allow extra time during the evenings and weekend. Team allocations will be posted on Moodle on Wednesday 4 October 2017. The Lego lab handout (issued at the introductory lecture) includes instructions on how to sign on to Moodle. All students should do this, and browse the project documentation on the Moodle site, during the afternoon of Wednesday 4 October 2017. All groups present their devices, with prizes for the best systems, demonstrated to the whole year at the end of week 2.

Drawing

Each timetabled drawing session, both morning and afternoon, begins with a lecture to outline the material that will be covered in the following practical class. The Michaelmas term exercises introduce the basic principles of projection theory. The interpretation and making of mechanical drawings, including CAD, are practised in the Lent and Easter terms.

Students are expected to attend both the lecture and the following practical class. Work set for each drawing class must be handed in at the end of each session. Students should avoid commitment to other afternoon activities on the one day a fortnight when they are scheduled to attend drawing classes (see the lab & coursework schedules). Supervisions should be timetabled to avoid afternoon lab sessions.

Most of the equipment required for the practical drawing sessions is provided. See additional course costs for details of the drawing equipment that students are expected to have.

Exposition
The communication of technical information is developed through the exposition course which aims to improve students' presentation, discussion and writing skills. Students' lab reports on the statics experiment are critically reviewed during these sessions. In addition, each student is required to give a short (10-15 minute) talk on technical material and to take part in a debate on a current technical topic, or other appropriate activity. The topics chosen are at the discretion of the group leader. The good practice initiated during the exposition exercises is developed throughout the course, whenever students write laboratory or project reports, essays or give oral presentations on their project work.

Engineer in society, principles of design, product design project and dimensional analysis

Eight lectures are given on the role of the engineer in society, in which the wider issues that influence technical decision making are discussed. Students' assimilation of the lecture material and their reading around the subject is assessed through a report. There are also eight lectures on the principles of design, assessed through the product design project. The principles of dimensional analysis are covered in four lectures at the start of term followed by two experiments (and questions may be set on this topic in the Part IA examinations).

NB. Attendance at all these lectures is necessary for students to complete their coursework satisfactorily.

Computing and microprocessors

The Michaelmas Term part of the course involves 12 activities for self-study, and each activity has exercises to be completed. All the material and documentation for the course will be made available online, through the course Moodle page. Support sessions will take place on Mondays to Fridays of weeks 2-8, 2.00-4.00pm in the DPO. The exercises for at least the first six activities must be completed by week 4 and will be checked at a sign-up assessment session, and the remainder must be completed by the second assessment sign-up session in week 7. In each assessment session, all lab groups will be allocated a slot for a 15-minute long session. Students will be asked to demonstrate their code and answer a few questions to make sure they understand the course content.

The Lent Term activity is a group exercise, with students working in pairs. Each student takes charge of writing part of a software solution. A modular design and unit testing are required to ensure that the two parts work together correctly.

Microprocessors and learning how to program them are introduced through a series of labs in the Easter term.

The computing course is examined in Paper 4 Mathematical Methods. An open-ended long vacation exercise (the “Mars lander”) aims to keep computing skills fresh for Part IB.

Structural design project

Creative thinking and synthesis are fostered in design projects. All students undertake a Structural Design Project. Working in pairs, they design, manufacture and test a metal structure to carry given loads at minimum cost. The structures are tested to destruction in ascending order of 'cost'. After the test, recommendations are made on how the design might be improved. Assessment is by the quality of the tested product, the quality of the drawings and the individual reports.

Integrated electrical project

In the integrated electrical project, students work in pairs to design, build and test an AM radio. This project brings together design software and working with electrical components to integrate many topics in the lecture courses on linear circuits and electronics. The project begins with a timetabled lecture for all students towards the end of Michaelmas term, and has a concentrated period of laboratory activity in the Lent Term.

Product design exercise

The students' assimilation of the material covered in the eight lectures on the principles of design is tested through a product design project where they are asked to design a device to meet a specified need. In addition to a brief report, students present their solutions in person to an audience which includes a designer from industry.
### Outline of 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><strong>Michaelmas</strong></td>
<td>Lego Mindstorms</td>
<td>5 (2 or 3 in afternoons)</td>
</tr>
<tr>
<td></td>
<td>Dimensional analysis</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Statics experiment</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Exposition</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Computing</td>
<td>Support sessions in the afternoons in weeks 2-8 Assessment sessions in weeks 4 and 7.</td>
</tr>
<tr>
<td><strong>Christmas Vacation</strong></td>
<td>Report on 'the engineer in society'</td>
<td></td>
</tr>
<tr>
<td><strong>Michaelmas, Lent and Easter</strong></td>
<td>Drawing</td>
<td>9 + 9 afternoons</td>
</tr>
<tr>
<td></td>
<td>Structural design project</td>
<td>5 + 5 afternoons</td>
</tr>
<tr>
<td></td>
<td>Integrated electrical project</td>
<td>5 + 4 afternoons</td>
</tr>
<tr>
<td></td>
<td>Machine Tool lab</td>
<td>1</td>
</tr>
<tr>
<td><strong>Lent and Easter</strong></td>
<td>Microprocessors</td>
<td>2 + 1 afternoon</td>
</tr>
<tr>
<td></td>
<td>Computing</td>
<td>2 + 2 afternoons</td>
</tr>
<tr>
<td></td>
<td>Experiments</td>
<td>12</td>
</tr>
<tr>
<td><strong>Easter Vacation</strong></td>
<td>Product design project</td>
<td></td>
</tr>
</tbody>
</table>

### Outline of experiments (Lent/Easter terms)

Students undertake 13 experiments during the Lent term and the first three weeks of the Easter term. The topics on which these experiments are based are listed below. Some experiments are 'short'. These straightforward experiments aim to give students experience of important techniques and phenomena. Each task is completed and signed up in the two-hour morning period assigned to it. 'Long' experiments normally require two hours in the laboratory to complete the investigation and record the results, with an extra two hours on writing-up and drawing conclusions, and a subsequent sign-up session.

<table>
<thead>
<tr>
<th>Associated paper</th>
<th>Experiment number and title</th>
<th>Long or short</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mechanics:</strong></td>
<td>1. Kinematics of plane mechanism (paused in 2017/18 and replaced by the Machine Tool lab)</td>
<td>L</td>
</tr>
<tr>
<td></td>
<td>7. Vibration</td>
<td>S</td>
</tr>
<tr>
<td></td>
<td>8. Energy and power</td>
<td>S</td>
</tr>
<tr>
<td><strong>Thermofluids:</strong></td>
<td>2. Gas engine</td>
<td>L</td>
</tr>
<tr>
<td></td>
<td>9. Turbocharger</td>
<td>S</td>
</tr>
<tr>
<td></td>
<td>10. Inviscid fluid flow</td>
<td>S</td>
</tr>
<tr>
<td><strong>Structures:</strong></td>
<td>3. Elastic beams</td>
<td>L</td>
</tr>
<tr>
<td><strong>Materials:</strong></td>
<td>4. Plasticity and fracture</td>
<td>L</td>
</tr>
<tr>
<td></td>
<td>11. Non-destructive testing</td>
<td>S</td>
</tr>
<tr>
<td><strong>Electrical and information:</strong></td>
<td>12. Iron-cored transformer</td>
<td>S</td>
</tr>
</tbody>
</table>
### 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.

#### Lab times

Morning laboratory/coursework sessions begin at 5 minutes past the hour.

Afternoon activities start on the hour.

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### 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, IEP 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

Although we expect students to attend all lab sessions and respect coursework deadlines, there may be a number of reasons why this might be problematic. In such cases you might be able to rearrange your coursework or apply for a mark allowance. See the following pages for further information:
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 and plagiarism

You should read and ensure that you understand the following information on the plagiarism, cooperating and cheating webpage:

- distinguishing between cooperation and cheating
- plagiarism avoidance: expectations of all students
- 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.

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.
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.

There are many different ways to give feedback from the fast feedback facility to course-specific and national surveys and the best lecturers awards.

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.

Inclusive teaching

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. Cambridge University 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.

The following recommendations have been agreed by the Faculty Board (12 November 2012):

- Electronic versions of handouts should be made available online 24h 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.
- Recording lectures (audio) is often recommended to students as a learning aid. They must sign an agreement to use the recording only for their own personal study, and acknowledging IP and copyright. The
agreement form can be found here, and students are asked to provide the Teaching Office with a copy. Lecturers are asked to consent to their lectures being recorded under these conditions. A list of students who have completed agreement forms can be made available on request.

- 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.

Course material on Moodle

Most courses in the department have a page on the University's Virtual Learning Environment Moodle.

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-enroll 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-enroll on any course. By using this key, you indicate that you agree with the condition above.

**Enrolment key:** cued_moodle_access

NB. If you wish to unenrol yourself from a page that you have enrolled yourself on, please look for the Administration block within the course (usually lower down the page on the left) and click 'unenrol me'.

You may wish to look at our ‘getting started’ guide.

Departmental facilities and rules

See the facilities and rules page for information about access to the Department, departmental rules and facilities such as the computer system and Language Unit etc.

**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](http://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

Source URL (modified on 26-01-18): http://teaching.eng.cam.ac.uk/content/part-ia-guide