Modules, Extension Activities & Engineering Areas

Please also see the list of Modules and Sets for details of which modules will run and any restrictions on module combinations.

Table of contents

Engineering areas

If you wish to qualify in a specific engineering area, at least six modules from your total of ten must fall within one of the engineering areas defined by the Faculty Board.

The title of the engineering area for which you are qualified will appear on each of your Part IIA and IIB transcripts. In some cases, you may be qualified for more than one engineering area, in which case all will appear on your transcript. It is not essential that your engineering area at Part IIB is the same as that at Part IIA.

NB. the module syllabus pages are the definitive source of information about pre-requisites for each module. A summary is also given on the syllabus index page.

Engineering area	Coordinator
Mechanical engineering	Dr H R Shercliff
Energy, sustainability and the environment	Professor S Hochgreb
Aerospace and aerothermal engineering	Professor WN Dawes
Civil, structural and environmental engineering	Mr A McRobie
Electrical and electronic engineering	Professor A Flewitt
Information and computer engineering	Dr J Sayir
Electrical and information sciences	Professor M Smith
Instrumentation and control	Professor M Smith
Bioengineering	Dr AJ Kabla

General Engineering

If you do not wish to choose six modules from an engineering area you may instead qualify in Engineering (i.e. General Engineering). Students intending to qualify in General Engineering may choose any set of modules subject to the restrictions given in COMET.

In common with the other engineering areas General Engineering is accredited by one or more of the Professional Engineering Institutions. For further information see the Accreditation of the MEng.

Further advice

For advice on engineering areas and module choices go first to your Director of Studies. The staff listed above will be happy to provide expert advice on their Engineering Areas.

General queries about Manufacturing Engineering should be sent to the MET Course Administrator; detailed queries about academic course content may be sent to Dr Chander Velu or Dr Ajith Parlikad.

Part IIA Extension Activities (ExAs)

To register for an Extension Activity, you need to do two things:

1. Indicate your choice online, so that we can ensure that everyone has signed up.
2. Sign up as soon as possible for a time slot for your chosen Activity, as described below.

Activity & link to summary sheet	Access	Timing	Sign-up sheet location	S c
Surveying*	Open to all and required for: 4. Civil, Structural & Environmental Engineering	End of Michaelmas & Lent terms (wk8) [NB Begins on the afternoon of last day of lectures (Wednesday) and runs until Friday evening]	Mezzanine floor Inglis building	Mr A L Dr D L
Flow visualisation**	Open to all and recommended for: 1. Mechanical Engineering 2. Energy, Sustainability & the Environment 3. Aerospace & Aerothermal Engineering	End of Michaelmas term (wk8) (including Thursday and Friday after last day of lectures) Lent term	Hopkinson Lab ground floor Inglis building	Dr N A Prof R Dr A V
IC Engine performance/ emissions	Open to all and recommended for: 1. Mechanical Engineering 2. Energy, Sustainability & the Environment 3. Aerospace & Aerothermal Engineering 8. Instrumentation & Control	Lent term	Hopkinson Lab ground floor Inglis building	Dr A E
Failure analysis	Open to all and recommended for: 1. Mechanical Engineering	Lent term	Online	Dr A M
Design & performance of a portable motor-generator set	Open to all and recommended for: 1. Mechanical Engineering 2. Energy, Sustainability & the Environment 3. Aerospace & Aerothermal Engineering 8. Instrumentation & Control	Lent term	Mechanics Lab centre wing Baker building (via centre roadway) Online	Dr D J
Investigations on a CD player	Open to all and	Michaelmas & Lent terms	EIETL	Dr P A

Activity & link to summary sheet	Access	Timing	Sign-up sheet location	S c
and 3D printer	recommended for: 1. Mechanical Engineering 5. Electrical & Electronic Engineering 6. Information & Computer Engineering 7. Electrical & Information Sciences 8. Instrumentation & Control		1st floor Inglis building	
Fundamentals of Biotechnology	Open to all and recommended for: 9. Bioengineering	Michaelmas and Lent term	Online	D
Language course	Open to all	Michaelmas & Lent terms	Contact staff in charge for assessment.	M

*If this ExA is under-subscribed, the Michaelmas session will be withdrawn and only the Lent session will take place. Students will be contacted if necessary.

**If over-subscribed, additional sessions for this ExA will be available week 2 of Lent term.

General notes

- You should sign up for your ExA as soon as possible at the start of the Michaelmas Term (even for Lent ExAs). Do this before booking your module labs.
- Detailed arrangements for each ExA will be posted near the sign-up sheets.
- If you have any queries about an activity, you can ask the Chief Technician in the lab where the sign-up sheet is posted, or the staff member in charge.
- Each activity should occupy you for about 16 hours and has 20 marks of credit available.