

Modules, Extension Activities & Engineering Areas

[Modules and Sets](#)

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Engineering areas

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.

If you do not wish to choose six modules from an engineering area you may instead qualify in Engineering (i.e. General Engineering). Your choice of modules is less restricted, but you must still follow other requirements about module choices (e.g. sets).

Engineering area	Coordinator
Mechanical engineering	Dr H R Shercliff
Energy, sustainability and the environment	Professor N Collings
Aerospace and aerothermal engineering	Professor WN Dawes
Civil, structural and environmental engineering	Mr A McRobie
Electrical and electronic engineering	Prof 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

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 James Moultrie](#) or [Dr Tim Minshall](#).

Extension activities

You must also complete a Part IIA Extension Activity, and in most (but not all) cases your choice of this is not restricted. For further details see [Part IIA Extension Activities](#).

Part IIA Extension Activities (ExAs)

Activity & link to summary sheet	Access	Timing	Sign-up sheet location
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
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
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
Failure analysis	Open to all and recommended for: 1. Mechanical Engineering	Lent term	Mechanics Lab centre wing Baker building (via centre roadway)
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) Sign-up
Investigation of a compact disc player and a 3D printer	Open to all and recommended for: 1. Mechanical Engineering 5. Electrical & Electronic Engineering 6. Information & Computer Engineering 7. Electrical & Information Sciences 8. Instrumentation & Control	Michaelmas & Lent terms	EIETL 1st floor Inglis building

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Activity & link to summary sheet	Access	Timing	Sign-up sheet location
Fundamentals of Biotechnology	Open to all and recommended for: 9. Bioengineering	Michaelmas and Lent term	Online
Language course	Open to all	Michaelmas & Lent terms	Contact staff in charge for assessment.

*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.

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