

## Part IIA Modules 2025-26

The Faculty Board of Engineering give notice that the modules prescribed for examination in 2026, and the mode of examination for each module, will be as listed below. Candidates must offer 10 modules for examination. Candidates may offer only one module from any one of the sets. Students must take at least one, but not more than two, modules from Group E 'Management and Manufacturing,' or for those specialising in Civil Engineering, module 3D9. Candidates are advised to take note of the conditions of exemption which are set by the professional engineering institutions that accredit the course:

<http://teaching.eng.cam.ac.uk/content/accreditation-meng#coe>.

p=examination only

Unit	Title	Set	Mode	Notes
<b>Group A: Energy, Fluid Mechanics, and Turbomachinery</b>				
3A1	Fluid Mechanics I	IIAM8&L7	p	Double module
3A3	Fluid Mechanics II	IIAM1&L1	p	Double module
3A5	Thermodynamics and Power Generation	IIAM7	p	
3A6	Heat and Mass Transfer	IIAL3	p	
<b>Group B: Electrical Engineering</b>				
3B1	Radio Frequency Electronics	IIAM3	p	
3B2	Integrated Digital Electronics	IIAL3	p	
3B3	Switch-Mode Electronics	IIAM2	p	
3B4	Electric Drive Systems	IIAL2	p	
3B5	Semiconductor Engineering	IIAM8	p	
3B6	Photonic Technology	IIAL7	p	
<b>Group C: Mechanics, Materials, and Design</b>				
3C1/3P1	Materials Processing and Design (Engineering)	IIAM5	p	Offered by MET as 3P1
3C5	Dynamics	IIAL6	p	
3C6	Vibration	IIAM6	p	
3C7	Mechanics of Solids	IIAM4	p	
3C8	Machine Design	IIAM3	p	
3C9	Fracture Mechanics of Materials and Structures	IIAL5	p	3C7 assumed
<b>Group D: Civil, Structural, and Environmental Engineering</b>				
3D1	Geotechnical Engineering I	IIAM1	p	
3D2	Geotechnical Engineering II	IIAL1	p	3D1 assumed
3D3	Structural Materials and Design	IIAM2	p	
3D4	Structural Analysis and Stability	IIAL2	p	
3D5	Hydraulics	IIAM10	p	
3D7	Finite Element Methods	IIAL4	p	
3D9	Construction Management	IIAM3	p	
<b>Group E: Management and Manufacturing</b>				
3E1	Business Economics	IIAL8	p	
3E2	Marketing	IIAM9	p	
3E3	Modelling Risk	IIAL8	p	
3E6	Organisational Behaviour	IIAM9	p	
3E10	Operations Management for Engineers	IIAL8	p	
3E11	Environmental Sustainability & Business	IIAM9	p	
<b>Group F: Information Engineering</b>				
3F1	Signals and Systems	IIAM4	p	
3F2	Systems and Control	IIAL5	p	
3F3	Statistical Signal Processing	IIAM1	p	
3F4	Data Transmission	IIAL6	p	
3F7	Information Theory and Coding	IIAM5	p	
3F8	Inference	IIAL4	p	3F3 assumed
<b>Group G: Bioengineering</b>				
3G1	Molecular Bioengineering I	IIAM7	p	
3G2	Mathematical Physiology	IIAL3	p	
3G3	Introduction to Neuroscience	IIAL2	p	
3G4	Medical Imaging and 3-D Computer Graphics	IIAL1	p	
3G5	Biomaterials	IIAM8	p	
<b>Group M: Multidisciplinary modules</b>				

3M1	Mathematical Methods	IIAL10	p	
<b>Group S: Modules shared with Part IIB</b>				
4C4	Design Methods	IIAM7	p	Shared module
4M12	Partial Differential Equations and Variational Methods	IIAL9	p	Shared module
4M16	Nuclear Power Engineering	IIAL9	p	Shared module
4M21	Software Engineering and Design	IIAL9	p	Shared module