Part IIA Modules 2022-2023

The Faculty Board of Engineering give notice that the modules prescribed for examination in 2023, 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'. 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.

Unit	Title	Set	Mode	Notes
	Energy, Fluid Mechanics, and Turbomachinery			
3A1	Fluid Mechanics I	IIAM8&L7	p	Double module
3A3	Fluid Mechanics I	IIAM0&L7	p p	Double module
BA5 BA5	Thermodynamics and Power Generation	IIAMT<		
BA6	Heat and Mass Transfer	IIAM7	p	
		IIALS	р	
	Electrical Engineering			
3B1	Radio Frequency Electronics	IIAM3	р	
3B2	Integrated Digital Electronics	IIAL3	р	
3B3	Switch-Mode Electronics	IIAM2	р	
3B4	Electric Drive Systems	IIAL2	р	
3B5	Semiconductor Engineering	IIAM8	р	
3B6	Photonic Technology	IIAL7	р	
Group C: N	Mechanics, Materials, and Design			
3C1/3P1	Materials Processing and Design (Engineering)	IIAM5	р	Offered by MET as 3P1
3C5	Dynamics	IIAM6	p	-
3C6	Vibration	IIAL6	p	3C5 useful
3C7	Mechanics of Solids	IIAM4	p	1
3C8	Machine Design	IIAM3	р	
3C9	Fracture Mechanics of Materials and Structures	IIAL5	p	3C7 assumed
	Civil, Structural, and Environmental Engineering			
3D1	Geotechnical Engineering I	IIAM1	р	1
3D2	Geotechnical Engineering II	IIAM1 IIAL1	р р	3D1 assumed
3D2 3D3	Structural Materials and Design	IIAL I IIAM2	р р	
3D3 3D4	Structural Analysis and Stability	IIAM2	p p	
3D5	Water Engineering	IIAL2		
3D3 3D7	Finite Element Methods	IIAM10	р р	
3D8	Environmental Geotechnics	IIAL4	р р	
			٩	
-	Aanagement and Manufacturing		1	1
3E1	Business Economics	IIAM9	р	
3E2	Marketing	IIAM9	р	
3E3	Modelling Risk	IIAL8	р	
BE6	Organisational Behaviour	IIAM9	р	
3E10	Operations Management for Engineers	IIAL8	р	
3E11	Environmental Sustainability & Business	IIAL8	р	
Group F: I	nformation Engineering			
3F1	Signals and Systems	IIAM4	р	
3F2	Systems and Control	IIAL5	p	1
3F3	Statistical Signal Processing	IIAM1	p	1
3F4	Data Transmission	IIAL6	p	1
3F7	Information Theory and Coding	IIAM5	p	1
3F8	Inference	IIAL4	p	3F3 assumed
	Bioengineering		I.	1
3G1	Molecular Bioengineering I	IIAM7	In	
3G2	Mathematical Physiology	IIAM7 IIAL3	p	
3G2 3G3	Introduction to Neuroscience	IIAL3	p	
3G3 3G4	Medical Imaging and 3-D Computer Graphics	IIAL2	p	+
			p	+
3G5	Biomaterials	IIAM8	р	

Group M: Multidisciplinary modules					
3M1	Mathematical Methods	IIAL10	р		
Group S: Modules shared with Part IIB					
4C4	Design Methods	IIAM7	р	Shared module	
4D16	Construction Management	IIAM7	р	Shared module	
4M12	Partial Differential Equations and Variational Methods	IIAL9	р	Shared module	
4M16	Nuclear Power Engineering	IIAL9	р	Shared module	

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Set	Unit	Title	Mode	Notes
	3A3	Fluid Mechanics II	р	Double module
IIAM1	3D1	Geotechnical Engineering I	р	
	3F3	Statistical Signal Processing	р	3F1 assumed
IIAM2	3B3	Switch-Mode Electronics	р	
IIAWIZ	3D3	Structural Materials and Design	р	
IIAM3	3B1	Radio Frequency Electronics	р	
IIAIVI3	3C8	Machine Design	р	
IIAM4	3C7	Mechanics of Solids	р	
IIAM4	3F1	Signals and Systems	р	
	3C1	Materials Processing and Design	р	Offered by MET as 3P1
IIAM5	3F7	Information Theory and Coding	р	
IIAM6	3C5	Dynamics	р	
	3A5	Thermodynamics and Power Generation	р	
	3G1	Molecular Bioengineering I	р	
IIAM7	4D16	Construction Management	р	Shared with IIB
	4C4	Design Methods	р	Shared with IIB
	3A1	Fluid Mechanics I	р	Double module
IIAM8	3B5	Semiconductor Engineering	р	
	3G5	Biomaterials	р	
	3E6	Organisational Behaviour	р	
IIAM9 (PM lectures)	3E1	Business Economics	р	
	3E2	Marketing	р	
IIAM10 (PM)	3D5	Water Engineering	р	
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Set	Unit	Title	Mode	Notes
IIAL1	3A3	Fluid Mechanics II	р	Double module
	3D2	Geotechnical Engineering II	р	3D1 assumed
	3G4	Medical Imaging & 3-D Computer Graphics	р	
IIAL2	3B4	Electric Drive Systems	р	
	3D4	Structural Analysis and Stability	р	
	3G3	Introduction to Neuroscience	р	
	3A6	Heat and Mass Transfer	р	
IIAL3	3B2	Integrated Digital Electronics	р	
	3G2	Mathematical Physiology	р	
	3D7	Finite Element Methods	р	
IIAL4	3F8	Inference	р	3F3 assumed
	3C9	Fracture Mechanics of Materials & Structures	р	3C7 assumed
IIAL5	3F2	Systems and Control	р	
IIAL6	3C6	Vibration	р	3C5 useful
	3F4	Data Transmission	р	3F1 assumed
IIAL7	3A1	Fluid Mechanics I	р	Double module
	3B6	Photonic Technology	р	
	3D8	Environmental Geotechnics	р	
	3E3	Modelling Risk	р	
IIAL8 (PM lectures)	3E10	Operations Management for engineers	р	
	3E11	Environmental Sustainability & Business	р	
IIAL9	4M12	Partial Differential Equations and Variational Methods	р	Shared with IIB.
	4M16	Nuclear Power Engineering	р	Shared with IIB.
IIAL10	3M1	Mathematical Methods	р	