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	Mod	Notes
Group A: E	Energy, Fluid Mechanics, and Turbomachinery	•		
3A1	Fluid Mechanics I	IIAM8&L7	р	Double module
3A3	Fluid Mechanics II	IIAM1&L1	р	Double module
3A5	Thermodynamics and Power Generation	IIAM7	р	Double module
3A6	Heat and Mass Transfer	IIAL3	р	
		IIALO	ĮΡ	
	Electrical Engineering			
3B1	Radio Frequency Electronics	IIAM3	р	
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	
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	
3C8	Machine Design	IIAM3	р	
3C9	Fracture Mechanics of Materials and Structures	IIAL5	p	3C7 assumed
Group D: 0	Civil, Structural, and Environmental Engineering			
3D1	Geotechnical Engineering I	IIAM1	р	T
3D2	Geotechnical Engineering II	IIAL1	р	3D1 assumed
3D3	Structural Materials and Design	IIAL1	р	3DT assumed
3D3 3D4	Structural Analysis and Stability	IIAU2	р	
3D5	Water Engineering	IIAL2	р	
3D7	Finite Element Methods	IIAL4		
3D8	Geo-Environmental Engineering	IIAL7	p p	
3D0	Geo-Environmental Engineering	IIALI	P	
Group E: N	Management and Manufacturing	•		
3E1	Business Economics	IIAM9	р	1
OL 1	Business Essimines	117 11710	۲	
3E2	Marketing	IIAM9	р	
3E3	Modelling Risk	IIAL8	р	
3E6	Organisational Behaviour	IIAL6	р	
0_0	Organisational Denavious	IIAWS	۲	
3E10	Operations Management for Engineers	IIAL8	р	
3E11	Environmental Sustainability & Business	IIAL8	p	
Group F: Iı	nformation Engineering	•		
3F1	Signals and Systems	IIAM4	р	T
3F2	Systems and Control	IIAL5	р	
3F3	Statistical Signal Processing	IIAM1	р	3F1 assumed
3F4	Data Transmission	IIAL6	р	3F1 assumed
3F7	Information Theory and Coding	IIAL6		or r assumed
3F8	Inference	IIAL4	p p	3F3 assumed
		IIIAL4	۲	oi o assumeu
-	Bioengineering	Iw		
3G1	Molecular Bioengineering I	IIAM7	p	
3G2	Mathematical Physiology	IIAL3	р	
3G3	Introduction to Neuroscience	IIAL2	p	
3G4	Medical Imaging and 3-D Computer Graphics	IIAL1	p	
		HAMO		

IIAM8

3G5

Biomaterials

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	

Part IIA Sets Michaelmas Term 2022-23

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	
IIAWZ	3D3	Structural Materials and Design	р	
шалас	3B1	Radio Frequency Electronics	р	
IIAM3	3C8	Machine Design	р	
	3C7	Mechanics of Solids	р	
IIAM4	3F1	Signals and Systems	р	
IIAM5	3C1	Materials Processing and Design	р	Offered by MET as 3P1
CIVIAIII	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	
ieciules)	3E2	Marketing	р	
IIAM10 (PM)	3D5	Water Engineering	р	

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Set	Unit	Title	Mode	Notes
	3A3	Fluid Mechanics II	р	Double module
IIAL1	3D2	Geotechnical Engineering II	р	3D1 assumed
	3G4	Medical Imaging & 3-D Computer Graphics	р	
	3B4	Electric Drive Systems	р	
IIAL2	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
IIALO	3F4	Data Transmission	р	3F1 assumed
	3A1	Fluid Mechanics I	p	Double module
IIAL7	3B6	Photonic Technology	р	
	3D8	Geo-Environmental Engineering	р	
	3E3	Modelling Risk	р	
IIAL8 (PM			p	
lectures)	3E10	Operations Management for engineers	р	
	3E11	Environmental Sustainability & Business	р	
	4M12	Partial Differential Equations and Variational Methods	р	Shared with IIB.
IIAL9				
	4M16	Nuclear Power Engineering	р	Shared with IIB.