Part IIA Modules 2020-21

The Faculty Board of Engineering give notice that the modules prescribed for examination in 2021, 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
Group A: Er	nergy, Fluid Mechanics, and Turbomachinery	·		
BA1	Fluid Mechanics I	IIAM8&L7	р	Double module
3A3	Fluid Mechanics II	IIAM1&L1	p	Double module
3A5	Thermodynamics and Power Generation	IIAM7	p	Boable module
3A6	Heat and Mass Transfer	IIAL3	p	
		IIALO	ĮΡ	1
	ectrical 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: M	echanics, 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
	ivil, Structural, and Environmental Engineering	<u> </u>		•
BD1	Geotechnical Engineering I	IIAM1	In.	
3D2	Geotechnical Engineering II	IIAL1	р	3D1 assumed
3D3	Structural Materials and Design	IIAL1	р	3D1 assumed
3D4	_	IIAU2	р	
3D4 3D5	Structural Analysis and Stability	IIAL2	р	
3D5 3D7	Water Engineering Finite Element Methods	IIAMTO	p	
3D8		IIAL4	р	
סטס	Environmental Geotechnics	IIAL7	р	
Group E: M:	I anagement and Manufacturing	ļ.	_	<u> </u>
-		In a c		
3E1	Business Economics	IIAL8	p	
3E2	Marketing	IIAM9	р	
3E3	Modelling Risk	IIAL8	-	
	ů	III/LU	р	
3E6	Organisational Behaviour	IIAM9	р	
		IIAM9	р	
3E10	Operations Management for Engineers	IIAM9 IIAL8	p p	
BE10 BE11		IIAM9	р	
BE10 BE11 Group F: Inf	Operations Management for Engineers Environmental Sustainability & Business formation Engineering	IIAM9 IIAL8	p p	
BE10 BE11 Group F: Inf BF1	Operations Management for Engineers Environmental Sustainability & Business formation Engineering Signals and Systems	IIAM9 IIAL8 IIAM9	р р р	
BE10 BE11 Group F: Inf BF1 BF2	Operations Management for Engineers Environmental Sustainability & Business formation Engineering Signals and Systems Systems and Control	IIAM9 IIAL8 IIAM9 IIAM4 IIAL5	р р р	3F1 assumed
BE10 BE11 Group F: Inf BF1 BF2 BF3	Operations Management for Engineers Environmental Sustainability & Business formation Engineering Signals and Systems Systems and Control Statistical Signal Processing	IIAM9 IIAL8 IIAM9 IIAM4 IIAL5 IIAM1	р р р	3F1 assumed 3F1 assumed
BE10 BE11 Group F: Inf BF1 BF2 BF3 BF4	Operations Management for Engineers Environmental Sustainability & Business formation Engineering Signals and Systems Systems and Control Statistical Signal Processing Data Transmission	IIAM9 IIAL8 IIAM9 IIAM4 IIAL5 IIAM1 IIAL6	р р р р	3F1 assumed 3F1 assumed
BE10 BE11 Group F: Inf BF1 BF2 BF3 BF4 BF7	Operations Management for Engineers Environmental Sustainability & Business formation Engineering Signals and Systems Systems and Control Statistical Signal Processing	IIAM9 IIAL8 IIAM9 IIAM4 IIAL5 IIAM1	р р р	3F1 assumed
BE10 BE11 Group F: Inf BF1 BF2 BF3 BF4 BF7 BF8	Operations Management for Engineers Environmental Sustainability & Business formation Engineering Signals and Systems Systems and Control Statistical Signal Processing Data Transmission Information Theory and Coding Inference	IIAM9 IIAL8 IIAM9 IIAM4 IIAL5 IIAM1 IIAL6 IIAM5	P P P P P P P P P	
3E10 3E11 Group F: Inf 3F1 3F2 3F3 3F4 3F7 3F8 Group G: Bi	Operations Management for Engineers Environmental Sustainability & Business formation Engineering Signals and Systems Systems and Control Statistical Signal Processing Data Transmission Information Theory and Coding Inference ioengineering	IIAM9 IIAL8 IIAM9 IIAM4 IIAL5 IIAM1 IIAL6 IIAM5 IIAL4	P P P P P P P	3F1 assumed
BE10 BE11 Group F: Inf BF1 BF2 BF3 BF4 BF7 BF8 Group G: Bi	Operations Management for Engineers Environmental Sustainability & Business formation Engineering Signals and Systems Systems and Control Statistical Signal Processing Data Transmission Information Theory and Coding Inference ioengineering Molecular Bioengineering I	IIAM9 IIAL8 IIAM9 IIAM4 IIAL5 IIAM1 IIAL6 IIAM5 IIAL4	P P P P P P P	3F1 assumed
BE10 BE11 Group F: Inf BF1 BF2 BF3 BF4 BF7 BF8 Group G: Bi	Operations Management for Engineers Environmental Sustainability & Business formation Engineering Signals and Systems Systems and Control Statistical Signal Processing Data Transmission Information Theory and Coding Inference ioengineering Molecular Bioengineering I Mathematical Physiology	IIAM9 IIAL8 IIAM9 IIAM4 IIAL5 IIAM1 IIAL6 IIAM5 IIAL4	P P P P P P P P P P P P P P P P P P P	3F1 assumed
3F1 3F2 3F3 3F4 3F7 3F8	Operations Management for Engineers Environmental Sustainability & Business formation Engineering Signals and Systems Systems and Control Statistical Signal Processing Data Transmission Information Theory and Coding Inference ioengineering Molecular Bioengineering I	IIAM9 IIAL8 IIAM9 IIAM4 IIAL5 IIAM1 IIAL6 IIAM5 IIAL4	P P P P P P P	3F1 assumed

Group M: Multidisciplinary modules					
3M1	Mathematical Methods	IIAL10	р		
Group S: Modules shared with Part IIB					
4C4	Design Methods	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 2020-21

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	
IIAIVIZ	3D3	Structural Materials and Design	р	
IIAM3	3B1	Radio Frequency Electronics	р	
IIAW3	3C8	Machine Design	р	
	3C7	Mechanics of Solids	р	Ī
IIAM4	3F1	Signals and Systems	р	
HANAG	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	
IIAM7	3G1	Molecular Bioengineering I	р	
	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)	3E2	Marketing	р	
	3E11	Environmental Sustainability & Business	р	
IIAM10 (PM)	3D5	Water Engineering	р	

Part IIA Sets Lent Term 2020-21

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	
IIAL3	3A6	Heat and Mass Transfer	р	
	3B2	Integrated Digital Electronics	р	
	3G2	Mathematical Physiology	р	
	3D7	Finite Element Methods	р	
IIAL4	3F8	Inference	р	3F3 assumed
IIAL5	3C9	Fracture Mechanics of Materials & Structures	р	3C7 assumed
	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	
IIAL8 (PM lectures)	3E3	Modelling Risk	р	
	3E1	Business Economics	р	
	3E10	Operations Management for engineers	р	
	4M12	Partial Differential Equations and Variational Methods	р	Shared with IIB
IIAL9	4M16	Nuclear Power Engineering	р	Shared with IIB
IIAL10	3M1	Mathematical Methods	р	