Part IIA Modules 2018-19

The Faculty Board of Engineering give notice that the modules prescribed for examination in 2019, 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 may not take more than two management modules.

p=examination only

International state International state SA1 Fluid Mechanics, and Turbomschinery SA3 Fluid Mechanics II IMAM84.1 p SA3 Thermosynanics and Power Generation IAA77 p SA5 Thermosynanics and Power Generation IAA77 p SA5 Thermosynanics and Power Generation IAA77 p SA6 Heat and Mass Transfer IAA3 p - SA6 Heat and Mass Transfer IIAA7 p - SA6 Heat and Mass Transfer IIAA7 p - SA6 Heat and Mass Transfer IIAA7 p - SA6 Each Drive Systems IIAA7 p - SA6 SenticonActor Engineering IIAA68 p - SA6 Paramics Mathelias Processing and Design (Engineering) IIAA48 p - SC/2014P1 Machanics of Solidis IIAA48 p - - SC/2014P1 Machanics of Matenals and Structures IIAA5 p	Unit	Title	Set	Mode	Notes	
Group A: Energy, Fuld webanics, and furomatining/ IIAM88L7 Double module SA3 Fluid Mechanics II IIAM7411 Double module SA5 Thermodynamics and Power Generation IIAM7 p SA6 Heat and Mass Transfer IIAM3 p SA7 Transmodynamics and Power Generation IIAM3 p SA6 Heat and Mass Transfer IIAM3 p		The State State and Tanks and State State	001	moue	notes	
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SA3 Fluid McAnnos II [LAM184.] p Double module SA5 Thermodynamics and Power Generation [LAM3] p SA6 Heat and Mass Transfer [LA3] p SA7 Thermodynamics and Power Generation [LA43] p SA8 Statio Frequency Electronics [LA42] p SA8 Station Frequency Electronics [LA42] p SA8 Electric Drive Systems [LA42] p SA8 Stational Actional Stational Stationa	3A1	Fluid Mechanics I	IIAM8&L7	р	Double module	
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383 Switch-Mode Electronics IIAA2 p 384 Electric Dive Systems IIAA7 p 385 Semiconductor Engineering IIAA8 p 386 Photonic Technology IIAA7 p 387 Semiconductor, Materials, and Design IIAA6 p 387 Schancis, Materials, and Design (Engineering) IIAA6 p 386 Dynamics IIAA8 p Offered by MET as 3P1 386 Dynamics IIAA8 p Offered by MET as 3P1 387 Materials Processing and Design (Engineering) IIAA8 p IIAA83 387 Fracture Mechanics of Materials and Structures IIAA1 p IIA83 383 Structural Anapsis and Stability IIA42 p IIA843 392 Geotechnical Engineering IIAA1 p IIA844 393 Structural Anapsis and Stability IIA42 p IIA844 393 Structural Anapsis and Stability IIA42 p IIA844 394 <td>3B2</td> <td>Integrated Digital Electronics</td> <td>IIAL3</td> <td>р</td> <td></td>	3B2	Integrated Digital Electronics	IIAL3	р		
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388 Photonic Technology IIAL7 p Group C: Mechanics, Materials, and Design (Engineeting) IIAM5 p Offered by MET as 3P1 3C13P1 Materials Processing and Design (Engineeting) IIAM6 p 3C5 Vibration IIAM6 p 3C6 Vibration IIAM4 p 3C7 Mechanics of Solids IIAM3 p 3C8 Fracture Mechanics of Materials and Structures IIAM3 p 3C9 Fracture Mechanics of Materials and Structures IIAM1 p 3C13P1 Geotechnical Engineering I IIAM1 p 3D2 Geotechnical Engineering II IIAM2 p 3D3 Structural Materials and Design IIAM2 p 3D4 Structural Analysis and Stability IIAL2 p 3D5 Water Engineering IIAM3 p 3D6 Building Physics and Environmental Geotechnics IIAM3 p 3D7 Finte Element Methods IIAM3 p 3D8 Building Physics and Environmental Geotechnics IIAM4 p 3E1 Business Economics IIAL8 p 3E2 Marketing IIAM3 p 3E3 Modelling Risk <t< td=""><td>3B5</td><td>Semiconductor Engineering</td><td>IIAM8</td><td>р</td><td></td></t<>	3B5	Semiconductor Engineering	IIAM8	р		
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Group G: Bioengineering IIAM7 p 3G1 Introduction to Molecular Bioengineering 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 Group M: Multidisciplinary modules 3M1 Mathematical Methods IIAL10 p Group S: Modules shared with Part IIB IIAM7 p Shared module 4C4 Design Methods IIAL9 p Shared module 4M12 Partial Differential Equations and Variational Methods IIAL9 p Shared module 4M16 Nuclear Power Engineering IIIAI9 p Shared module	3F8	Interence	IIAL4	р		
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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 Group M: Multidisciplinary modules 3M1 Mathematical Methods IIAL10 p Group S: Modules shared with Part IIB IIAM7 p Shared module 4C4 Design Methods IIAL9 p Shared module 4D16 Construction Management IIAL9 p Shared module 4M12 Partial Differential Equations and Variational Methods IIAL9 p Shared module 4M16 Nuclear Power Engineering IIAL9 p Shared module	3G1	Introduction to Molecular Bioengineering	IIAM7	р		
3G3 Introduction to Neuroscience IIAL2 p 3G4 Medical Imaging and 3-D Computer Graphics IIAL1 p 3G5 Biomaterials IIAM8 p Group M: Multidisciplinary modules 3M1 Mathematical Methods IIAL10 p Group S: Modules shared with Part IIB IIAM7 p Shared module 4C4 Design Methods IIAL9 p Shared module. Alts with 4D8. 4D16 Construction Management IIAL9 p Shared module 4M12 Partial Differential Equations and Variational Methods IIAL9 p Shared module 4M16 Nuclear Power Engineering IIAL9 p Shared module	3G2	Mathematical Physiology	IIAL3	р		
3G4 Medical Imaging and 3-D Computer Graphics IIAL1 p 3G5 Biomaterials IIAM8 p Group M: Multidisciplinary modules 3M1 Mathematical Methods IIAL10 p Group S: Modules shared with Part IIB 4C4 Design Methods IIAM7 p Shared module 4D16 Construction Management IIAL9 p Shared module 4M12 Partial Differential Equations and Variational Methods IIAL9 p Shared module 4M16 Nuclear Power Engineering IIAL9 p Shared module	3G3	Introduction to Neuroscience	IIAL2	р		
3G5 Biomaterials IIAM8 p Group M: Multidisciplinary modules 3M1 Mathematical Methods IIAL10 p Group S: Modules shared with Part IIB 4C4 Design Methods IIAM7 p 4D16 Construction Management IIAL9 p Shared module 4M12 Partial Differential Equations and Variational Methods IIAL9 p Shared module 4M16 Nuclear Power Engineering IIAL9 p Shared module	3G4	Medical Imaging and 3-D Computer Graphics	IIAL1	р		
Group M: Multidisciplinary modules 3M1 Mathematical Methods IIAL10 p Group S: Modules shared with Part IIB IIAM7 p Shared module 4C4 Design Methods IIAM7 p Shared module 4D16 Construction Management IIAL9 p Shared module. Alts with 4D8. 4M12 Partial Differential Equations and Variational Methods IIAL9 p Shared module 4M16 Nuclear Power Engineering IIIAL9 p Shared module	3G5	Biomaterials	IIAM8	р		
3M1 Mathematical Methods IIAL10 p Group S: Modules shared with Part IIB 4C4 Design Methods IIAM7 p Shared module 4D16 Construction Management IIAL9 p Shared module. Alts with 4D8. 4M12 Partial Differential Equations and Variational Methods IIAL9 p Shared module 4M16 Nuclear Power Engineering IIAL9 p Shared module	Group M: Multi	idisciplinary modules				
Group S: Modules shared with Part IIB 4C4 Design Methods IIAM7 p Shared module 4D16 Construction Management IIAL9 p Shared module. Alts with 4D8. 4M12 Partial Differential Equations and Variational Methods IIAL9 p Shared module 4M16 Nuclear Power Engineering IIAL9 p Shared module	3M1	Mathematical Methods	IIAL10	р		
4C4 Design Methods IIAM7 p Shared module 4D16 Construction Management IIAL9 p Shared module. Alts with 4D8. 4M12 Partial Differential Equations and Variational Methods IIAL9 p Shared module 4M16 Nuclear Power Engineering IIAL9 p Shared module	Group S: Modu	Iles shared with Part IIB				
4D16 Construction Management IIAU p Shared module 4M12 Partial Differential Equations and Variational Methods IIAL9 p Shared module 4M16 Nuclear Power Engineering IIAL9 p Shared module	4C4	Design Methods	IIAM7	n	Shared module	
4M12 Partial Differential Equations and Variational Methods IIAL9 p Shared module 4M16 Nuclear Power Engineering IIIAL9 p Shared module	4D16	Construction Management	IIAL 9	р D	Shared module. Alts with 4D8	
4M16 Nuclear Power Engineering IIIAI 9 In Shared module	4M12	Partial Differential Equations and Variational Methods	IIAI 9	r D	Shared module	
······································	4M16	Nuclear Power Engineering	IIAL 9	r D	Shared module	

Part IIA Sets Michaelmas Term 2018-19

All lectures AM except those indicated as PM.				
Set	Unit	Title	Mode	Notes
	3A3	Fluid Mechanics II	р	Double module
IIAM1	3D1	Geotechnical Engineering I	р	
	3F3	Statistical Signal Processing	р	
	3B3	Switch-Mode Electronics	р	
IIAM2	3D3	Structural Materials and Design	р	
	3B1	Radio Frequency Electronics	p	
IIAM3	3C8	Machine Design	p	
	3D8	Building Physics and Environmental Geotechnics	p	
	207	Machanics of Solids	In	
IIAM4	3C7 3F1	Signals and Systems	р р	
			٩	
IIAM5	3C1	Materials Processing and Design	р	Offered by MET as 3P1
	3F7	Information Theory and Coding	р	
IIAM6	3C5	Dynamics	р	
	3A5	Thermodynamics and Power Generation	p	
IIAM7	3G1	Introduction to Molecular Bioengineering	p	
	4C4	Design Methods	p	Shared with IIB
	341	Fluid Mechanics I	n	Double module
	3B5	Semiconductor Engineering	р D	
IIAMO	3G5	Biomaterials	Р D	
	050		٢	
IIAM9 (PM	3E3	Modelling Risk	р	
lectures)	3E2	Marketing	p	
	SETT	Environmental Sustainability & Business	ρ	
IIAM10 (PM double lectures)	3D5	Water Engineering	р	
0	11	Part IIA Sets Lent Term 2018	-19	
Set	Unit	Part IIA Sets Lent Term 2018 Title	-19 Mode	Notes
Set	Unit 3A3	Part IIA Sets Lent Term 2018 Title Fluid Mechanics II Geotechnical Engineering, II	Mode	Notes Double module
Set	Unit 3A3 3D2 3G4	Part IIA Sets Lent Term 2018 Title Fluid Mechanics II Geotechnical Engineering II Medical Imaging & 3-D Computer Graphics	-19 Mode p p	Notes Double module
Set IIAL1	Unit 3A3 3D2 3G4	Part IIA Sets Lent Term 2018 Title Fluid Mechanics II Geotechnical Engineering II Medical Imaging & 3-D Computer Graphics	- 19 Mode p p p	Notes Double module
Set IIAL1	Unit 3A3 3D2 3G4 3B4	Part IIA Sets Lent Term 2018 Title Fluid Mechanics II Geotechnical Engineering II Medical Imaging & 3-D Computer Graphics Electric Drive Systems Directoral Academics of Octobility	Mode P P P P P P P P	Notes Double module
Set IIAL1 IIAL2	Unit 3A3 3D2 3G4 3B4 3D4	Part IIA Sets Lent Term 2018 Title Fluid Mechanics II Geotechnical Engineering II Medical Imaging & 3-D Computer Graphics Electric Drive Systems Structural Analysis and Stability Introduction to Neuropsianoo	- 19 Mode P P P P P P P P	Notes Double module
Set IIAL1 IIAL2	Unit 3A3 3D2 3G4 3B4 3D4 3G3	Part IIA Sets Lent Term 2018 Title Fluid Mechanics II Geotechnical Engineering II Medical Imaging & 3-D Computer Graphics Electric Drive Systems Structural Analysis and Stability Introduction to Neuroscience	- 19 Mode P P P P P P	Notes Double module
Set IIAL1 IIAL2	Unit 3A3 3D2 3G4 3B4 3D4 3G3 3A6	Part IIA Sets Lent Term 2018 Title Fluid Mechanics II Geotechnical Engineering II Medical Imaging & 3-D Computer Graphics Electric Drive Systems Structural Analysis and Stability Introduction to Neuroscience Heat and Mass Transfer	- 19 Mode P P P P P P P	Notes Double module
Set IIAL1 IIAL2 IIAL3	Unit 3A3 3D2 3G4 3B4 3D4 3G3 3A6 3B2	Part IIA Sets Lent Term 2018 Title Fluid Mechanics II Geotechnical Engineering II Medical Imaging & 3-D Computer Graphics Electric Drive Systems Structural Analysis and Stability Introduction to Neuroscience Heat and Mass Transfer Integrated Digital Electronics	- 19 Mode P P P P P P P P	Notes Double module
Set IIAL1 IIAL2 IIAL3	Unit 3A3 3D2 3G4 3B4 3D4 3G3 3A6 3B2 3G2	Part IIA Sets Lent Term 2018 Title Fluid Mechanics II Geotechnical Engineering II Medical Imaging & 3-D Computer Graphics Electric Drive Systems Structural Analysis and Stability Introduction to Neuroscience Heat and Mass Transfer Integrated Digital Electronics Mathematical Physiology	- 19 Mode P P P P P P P P P	Notes Double module
Set IIAL1 IIAL2 IIAL3	Unit 3A3 3D2 3G4 3B4 3D4 3G3 3G3 3A6 3B2 3G2 3D7	Part IIA Sets Lent Term 2018 Title Fluid Mechanics II Geotechnical Engineering II Medical Imaging & 3-D Computer Graphics Electric Drive Systems Structural Analysis and Stability Introduction to Neuroscience Heat and Mass Transfer Integrated Digital Electronics Mathematical Physiology Finite Element Methods	-19 Mode P P P P P P P P P P	Notes Double module
Set IIAL1 IIAL2 IIAL3 IIAL4	Unit 3A3 3D2 3G4 3B4 3D4 3G3 3A6 3B2 3G2 3D7 3F8	Part IIA Sets Lent Term 2018 Title Fluid Mechanics II Geotechnical Engineering II Medical Imaging & 3-D Computer Graphics Electric Drive Systems Structural Analysis and Stability Introduction to Neuroscience Heat and Mass Transfer Integrated Digital Electronics Mathematical Physiology Finite Element Methods Inference	-19 Mode P P P P P P P P P P P	Notes Double module
Set IIAL1 IIAL2 IIAL3 IIAL4	Unit 3A3 3D2 3G4 3B4 3D4 3G3 3A6 3B2 3G2 3D7 3F8 3C9	Part IIA Sets Lent Term 2018 Title Fluid Mechanics II Geotechnical Engineering II Medical Imaging & 3-D Computer Graphics Electric Drive Systems Structural Analysis and Stability Introduction to Neuroscience Heat and Mass Transfer Integrated Digital Electronics Mathematical Physiology Finite Element Methods Inference Fracture Mechanics of Materials & Structures	-19 Mode P P P P P P P P P P P P	Notes Double module
Set IIAL1 IIAL2 IIAL3 IIAL4	Unit 3A3 3D2 3G4 3B4 3D4 3G3 3G3 3A6 3B2 3G2 3G2 3J7 3F8 3C9 3F2	Part IIA Sets Lent Term 2018 Title Fluid Mechanics II Geotechnical Engineering II Medical Imaging & 3-D Computer Graphics Electric Drive Systems Structural Analysis and Stability Introduction to Neuroscience Heat and Mass Transfer Integrated Digital Electronics Mathematical Physiology Finite Element Methods Inference Fracture Mechanics of Materials & Structures Systems and Control	-19 Mode P P P P P P P P P P P P P	Notes Double module
Set IIAL1 IIAL2 IIAL3 IIAL4 IIAL5	Unit 3A3 3D2 3G4 3B4 3D4 3G3 3A6 3B2 3G2 3G2 3G2 3C9 3F2 3C9 3F2	Part IIA Sets Lent Term 2018 Title Fluid Mechanics II Geotechnical Engineering II Medical Imaging & 3-D Computer Graphics Electric Drive Systems Electric Drive Systems Structural Analysis and Stability Introduction to Neuroscience Heat and Mass Transfer Integrated Digital Electronics Mathematical Physiology Finite Element Methods Inference Fracture Mechanics of Materials & Structures Systems and Control Vibration	-19 Mode P P P P P P P P P P P P P	Notes Double module
Set IIAL1 IIAL2 IIAL3 IIAL4 IIAL5 IIAL6	Unit 3A3 3D2 3G4 3B4 3D4 3G3 3A6 3B2 3G2 3D7 3F8 3C9 3F2 3C6 3E4	Part IIA Sets Lent Term 2018 Title Fluid Mechanics II Geotechnical Engineering II Medical Imaging & 3-D Computer Graphics Electric Drive Systems Structural Analysis and Stability Introduction to Neuroscience Heat and Mass Transfer Integrated Digital Electronics Mathematical Physiology Finite Element Methods Inference Fracture Mechanics of Materials & Structures Systems and Control Vibration Data Transmission	-19 Mode P P P P P P P P P P P P P P P	Notes Double module
Set IIAL1 IIAL2 IIAL3 IIAL4 IIAL5 IIAL6	Unit 3A3 3D2 3G4 3D4 3D4 3G3 3G4 3D4 3G3 3G4 3G3 3G2 3G2 3G2 3G7 3F8 3C9 3F2 3C6 3F4	Part IIA Sets Lent Term 2018 Title Fluid Mechanics II Geotechnical Engineering II Medical Imaging & 3-D Computer Graphics Electric Drive Systems Structural Analysis and Stability Introduction to Neuroscience Heat and Mass Transfer Integrated Digital Electronics Mathematical Physiology Finite Element Methods Inference Fracture Mechanics of Materials & Structures Systems and Control Vibration Data Transmission	-19 Mode P P P P P P P P P P P P P P P P	Notes Double module
Set IIAL1 IIAL2 IIAL3 IIAL4 IIAL5 IIAL5 IIAL5	Unit 3A3 3D2 3G4 3G4 3G4 3G3 3G3 3G2 3G2 3G2 3G2 3G2 3G2	Part IIA Sets Lent Term 2018 Title Fluid Mechanics II Geotechnical Engineering II Medical Imaging & 3-D Computer Graphics Electric Drive Systems Electric Drive Systems Structural Analysis and Stability Introduction to Neuroscience Heat and Mass Transfer Integrated Digital Electronics Mathematical Physiology Finite Element Methods Inference Fracture Mechanics of Materials & Structures Systems and Control Vibration Data Transmission Fluid Mechanics I	-19 Mode P P P P P P P P P P P P P P P P P	Notes Double module
Set IIAL1 IIAL2 IIAL3 IIAL4 IIAL5 IIAL6 IIAL7	Unit 3A3 3D2 3G4 3D4 3G3 3A6 3B2 3G2 3A6 3B2 3G2 3D7 3F8 3C9 3F2 3C6 3F2 3C6 3F4 3B6	Part IIA Sets Lent Term 2018 Title Fluid Mechanics II Geotechnical Engineering II Medical Imaging & 3-D Computer Graphics Electric Drive Systems Electric Drive Systems Structural Analysis and Stability Introduction to Neuroscience Heat and Mass Transfer Integrated Digital Electronics Mathematical Physiology Finite Element Methods Inference Fracture Mechanics of Materials & Structures Systems and Control Vibration Data Transmission Fluid Mechanics I Photonic Technology	-19 Mode P P P P P P P P P P P P P P P P P P P	Notes Double module
Set IIAL1 IIAL2 IIAL3 IIAL4 IIAL5 IIAL6 IIAL7	Unit 3A3 3D2 3G4 3D4 3D4 3G3 3G4 3D4 3G3 3G4 3G3 3G2 3G4 3G5 3F8 3C6 3F4 3A1 3B6 3E1	Part IIA Sets Lent Term 2018 Title Fluid Mechanics II Geotechnical Engineering II Medical Imaging & 3-D Computer Graphics Electric Drive Systems Electric Drive Systems Structural Analysis and Stability Introduction to Neuroscience Heat and Mass Transfer Integrated Digital Electronics Mathematical Physiology Finite Element Methods Inference Fracture Mechanics of Materials & Structures Systems and Control Vibration Data Transmission Fluid Mechanics I Photonic Technology Business Economics	-19 Mode P P P P P P P P P P P P P P P P P P	Notes Double module
Set IIAL1 IIAL2 IIAL3 IIAL4 IIAL5 IIAL6 IIAL6 IIAL7 IIAL8 (PM lectures)	Unit 3A3 3D2 3G4 3D4 3G3 3G4 3G3 3G4 3G3 3G4 3G3 3G3 3G3 3G3 3G2 3G3 3G2 3G4 3G4 3G4	Part IIA Sets Lent Term 2018 Title Fluid Mechanics II Geotechnical Engineering II Medical Imaging & 3-D Computer Graphics Electric Drive Systems Electric Drive Systems Structural Analysis and Stability Introduction to Neuroscience Heat and Mass Transfer Integrated Digital Electronics Mathematical Physiology Finite Element Methods Inference Fracture Mechanics of Materials & Structures Systems and Control Vibration Data Transmission Fluid Mechanics I Photonic Technology Business Economics Organisational Behaviour	-19 Mode P P P P P P P P P P P P P P P P P P P	Notes Double module
Set IIAL1 IIAL2 IIAL3 IIAL4 IIAL5 IIAL6 IIAL6 IIAL7 IIAL8 (PM lectures)	Unit 3A3 3D2 3G4 3D4 3G3 3G4 3G3 3G4 3G3 3G4 3G3 3G3 3G3 3G2 3G3 3G4 3E1 3E10	Part IIA Sets Lent Term 2018 Title Fluid Mechanics II Geotechnical Engineering II Medical Imaging & 3-D Computer Graphics Electric Drive Systems Electric Drive Systems Structural Analysis and Stability Introduction to Neuroscience Heat and Mass Transfer Integrated Digital Electronics Mathematical Physiology Finite Element Methods Inference Fracture Mechanics of Materials & Structures Systems and Control Vibration Data Transmission Fluid Mechanics I Photonic Technology Business Economics Organisational Behaviour Operations Management for engineers	-19 Mode P P P P P P P P P P P P P P P P P P P	Notes Double module Double module Double module Double module Double module
Set IIAL1 IIAL2 IIAL3 IIAL4 IIAL5 IIAL6 IIAL7 IIAL8 (PM lectures)	Unit 3A3 3D2 3G4 3D4 3G3 3C3 3G3 3G3 3G3 3G4 3D4 3G3 3G3 3G3 3G3 3G3 3G3 3G2 3G3	Part IIA Sets Lent Term 2018 Title Fluid Mechanics II Geotechnical Engineering II Medical Imaging & 3-D Computer Graphics Electric Drive Systems Electric Drive Systems Structural Analysis and Stability Introduction to Neuroscience Heat and Mass Transfer Integrated Digital Electronics Mathematical Physiology Finite Element Methods Inference Fracture Mechanics of Materials & Structures Systems and Control Vibration Data Transmission Fluid Mechanics I Photonic Technology Business Economics Organisational Behaviour Operations Management for engineers Construction Management For engineers	-19 Mode P P P P P P P P P P P P P P P P P P P	Notes Double module
Set IIAL1 IIAL2 IIAL3 IIAL4 IIAL5 IIAL6 IIAL6 IIAL6 IIAL7 IIAL8 (PM lectures)	Unit 3A3 3D2 3G4 3D4 3G3 3G4 3G3 3G2 3G2 3G1	Part IIA Sets Lent Term 2018 Title Fluid Mechanics II Geotechnical Engineering II Medical Imaging & 3-D Computer Graphics Electric Drive Systems Structural Analysis and Stability Introduction to Neuroscience Heat and Mass Transfer Integrated Digital Electronics Mathematical Physiology Finite Element Methods Inference Fracture Mechanics of Materials & Structures Systems and Control Vibration Data Transmission Fluid Mechanics I Photonic Technology Business Economics Organisational Behaviour Operations Management Partial Differential Equations and Variational Methods	-19 Mode P P P P P P P P P P P P P P P P P P P	Notes Double module Double module Double module Double module Shared with IIB. Alternates with 4D8. Shared with IIB
Set IIAL1 IIAL2 IIAL3 IIAL4 IIAL5 IIAL5 IIAL6 IIAL7 IIAL8 (PM lectures) IIAL9	Unit 3A3 3D2 3G4 3D4 3G3 3G4 3G3 3G4 3G3 3G4 3G3 3G3 3G3 3G2 3G3 3G4 3G5 3G1 3G2 3G1	Part IIA Sets Lent Term 2018 Title Fluid Mechanics II Geotechnical Engineering II Medical Imaging & 3-D Computer Graphics Electric Drive Systems Structural Analysis and Stability Introduction to Neuroscience Heat and Mass Transfer Integrated Digital Electronics Mathematical Physiology Finite Element Methods Inference Fracture Mechanics of Materials & Structures Systems and Control Vibration Data Transmission Fluid Mechanics I Photonic Technology Business Economics Organisational Behaviour Operations Management Portial Differential Equations and Variational Methods Nuclear Power Engineering Distational Methods	-19 Mode P P P P P P P P P P P P P	Notes Double module

Part IIB Modules for 2018-19

Conditions for candidates:

- candidates must offer 8 modules for examination;

- candidates may offer only one module from any set and not more than two 4E modules overall (one per term);

- in addition, candidates may not take not more three from the following: 4E modules; 4I1 and 4I7; 4M1-3; and 4D16;

- no candidate who offered any module for Part IIA may again offer the same module for Part IIB.

Notes:

- there will be no Group R (research) modules available to Part IIB students in 2018-19;

- as we do not have exclusive control over imported modules we cannot guarantee that they will not clash with other sets;

- pre-requisites are listed below for new/revised modules only. For pre-existing modules the individual syllabus pages are the definitive source of information about pre-requisites. A summary is also given on the syllabus index page;

- c = coursework only, p = exam only, p+c = coursework and exam.

Unit	Name	Set	Mode	Notes		
Group A: Energy, Fluid Mechanics, and Turbomachinery						
4A2	Computational Fluid Dynamics	IIBM1	с			
4A3	Turbomachinery I	IIBM4	p+c			
4A7	Aerodynamics	IIBM8	с			
4A9	Molecular Thermodynamics	IIBM7	р			
4A10	Flow Instability	IIBL11	р			
4A12	Turbulence and Vortex Dynamics	IIBL3	р			
4A13	Combustion and IC Engines	IIBL5	р			
4A15	Aeroacoustics	IIBM6	р			
Group E	3: Electrical Engineering	L				
4B2	Power Microelectronics	IIBM6	р			
4B6	Solid State Devices and Chemical/Biological Sensors	IIBL3	р			
4B11	Photonic Systems	IIBM5	р			
4B13	Electronic Sensors and Instrumentation	IIBL1	р			
4B19	Renewable Electrical Power	IIBM2	р			
4B21	Analogue Integrated Circuits	IIBM3	p			
4B22	Flexible and Stretchable Electronics	IIBL5	р			
4B23	Optical Fibre Communication	IIBL2	p+c			
4B24	Radio Frequency Systems	IIBL4	p+c			
4B25	Embedded Systems for the Internet of Things	IIBM7	с			
Group C	: Mechanics, Materials, and Design	4				
4C2	Designing with Composites	IIBM3	p+c			
4C3	Advanced Functional Materials and Devices	IIBM8	р			
4C4	Design Methods	IIBM2	р	Shared with IIA.		
4C5	Design Case Studies	IIBL4	с			
4C6	Advanced Linear Vibrations	IIBM4	p+c			
4C7	Random and Non-Linear Vibrations	IIBM5	p+c			
4C8	Vehicle Dynamics	IIBL8	p+c			
4C9	Continuum Mechanics	IIBL7	р			
4C15	MEMS: Design	IIBL2	p+c			
Group D: Civil, Structural, and Environmental Engineering						
4D4	Construction Engineering	IIBL4	с			
4D5	Foundation Engineering	IIBL5	р			
4D6	Dynamics in Civil Engineering	IIBL2	p+c			
4D7	Concrete Structures	IIBM4	p+c			
4D10	Structural Steelwork	IIBM3	p+c			
4D13	Architectural Engineering	IIBM8	с			
4D14	Contaminated Land & Waste Containment	IIBL3	p+c			
4D16	Construction Management	IIBL1	p	Shared with IIA & alts with 4D8.		

Group E: Management and Manufacturing

Group	Manayement and Manufacturing				
4E1	Innovation and Strategic Management of Intellectual Property	IIBM9	с		
4E4	Management of Technology	IIBM9	с		
4E5	International Business	IIBL9	с	Timetabled with IIBL12	
4E6	Accounting and Finance	IIBM9	С		
4E11	Strategic Management	IIBL12	С	Timetabled with IIBL9	
4E12	Project Management	IIBL9	с	IIB Engineering students only.	
Group F	: Information Engineering	-	-		
4F1	Control System Design	IIBM5	p+c		
4F2	Robust and Nonlinear Systems and Control	IIBL7	р		
4F3	An Optimisation Based Approach to Control	IIBL11	р		
4F5	Advanced Information Theory and Coding	IIBL6	р	3F7 assumed	
4F7	Statistical Signal Analysis	IIBL8	р		
4F8	Image Processing and Image Coding	IIBL3	р		
4F10	Deep Learning and Structured data	IIBM6	р		
4F12	Computer Vision	IIBM2	р		
4F13	Probabilistic Machine Learning	IIBM1	С		
4F14	Computer Systems	IIBL5	р+с	Part I Digital Circuits and Computing assumed.	
Group G: Bioengineering					
4G1	Mathematical Biology of the Cell	IIBM7	С	Capped at 15 for Physics.	
4G2	Biosensors	IIBL6	С		
4G3	Computational Neuroscience	IIBL4	С		
4G6	Cellular and Molecular Biomechanics	IIBL11	р		
Group N	1: Multidisciplinary modules				
4M1	French	IIBL10	с		
4M3	Spanish	IIBM10	с		
4M9	Surveying Field Course	IIBLV	с	Long vacation module taken in previous summer. Cap=16	
4M12	Partial Differential Equations and Variational Methods	IIBL1	р	Shared with IIA.	
4M16	Nuclear Power Engineering	IIBL1	р	Shared with IIA.	
4M17	Practical Optimization	IIBM11	с		
4M19	Advanced Building Physics	IIBM2	с		
4M20	Robotics	IIBM8	С		
4M21	Software Engineering and Design	IIBL7	р		
4M22	Climate Change Mitigation	IIBM12	С		
Group	Imported modules				

Group I: Imported modules

411	Strategic Valuation (TPE6)	IIBCV	с	Christmas vacation module. Cap= 14. Borrowed from Technology Policy MPhil
417	Electricity and Environment (TPE7)	IIBL6	с	Borrowed from Technology Policy MPhil
418	Medical Physics	IIBL8	р	Borrowed from Physics. TBC if running.
4I10	Nuclear Reactor Engineering	IIBM5	р	Borrowed from Nuclear Energy MPhil.
4111	Advanced Fission and Fusion Systems	IIBL8	с	Borrowed from NE MPhil.

IIB Sets Michaelmas Term 2018-19

Set	Unit	Title	Mode	Notes
IIBM1	4A2	Computational Fluid Dynamics	С	
	4F13	Probabilistic Machine Learning	С	
		•		
	4B19	Renewable Electrical Power	р	
IIBM2	4C4	Design Methods	р	Shared with IIA
IIDIVIZ	4F12	Computer Vision	р	
	4M19	Advanced Building Physics	с	
-	1		1	
	4B21	Analogue Integrated Circuits	р	
IIBM3	4C2	Designing with Composites	p+c	
	4D10	Structural Steelwork	p+c	
-		•		
	4A3	Turbomachinery I	p+c	
IIBM4	4C6	Advanced Linear Vibrations	p+c	
	4D7	Concrete Structures	p+c	
	4B11	Photonic Systems	р	
IIBM5	4C7	Random and Non-Linear Vibrations	p+c	
IIBNIO	4F1	Control System Design	p+c	
	4110	Nuclear Reactor Engineering	р	
			1	
	4A15	Aeroacoustics	р	
IIBM6	4B2	Power Microelectronics	р	
	4F10	Deep Learning and Structured data	р	
	4A9	Molecular Thermodynamics	р	
IIBM7	4B25	Embedded Systems for the Internet of Things	С	
	4G1	Mathematical Biology of the Cell	С	Capped at 15 for Physics
	447	Aerodynamics	c	
	403	Advanced Functional Materials and Devices	n	
IIBM8	400 4D13	Architectural Engineering	۲ C	
	4M20	Robotics	C C	
	-11120		U	
	4E1	Innovation and Strategic Management of Intellectual Property	С	
IIBM9	4E4	Management of Technology	с	
	4E6	Accounting and Finance	с	
IIBM10	4M3	Spanish	с	
	1	1-6	1	
IIBM11	4M17	Practical Optimization	с	
L				
IIBM12	4M22	Climite Change Mitigation	с	
L		Christmas Vacation		
HBCV	411	Strategic Valuation (TPE6)	C	Christmas vacation module Can=14
	1		l ~	

IIB Sets Lent Term 2018-19

Set	Unit	Title	Mode	Notes	
	4B13	Electronic Sensors and Instrumentation	р		
IIBL1	4D16	Construction Management	р	Shared with IIA & alts with 4D8.	
	4M12	Partial Differential Equations & Variational Methods	р	Shared with IIA	
	4M16	Nuclear Power Engineering	р	Shared with IIA	
	4B23	Optical Fibre Communication	p+c		
IIBL2	4C15	MEMS: Design	p+c		
	4D6	Dynamics in Civil Engineering	p+c		
	4A12	Turbulence and Vortex Dynamics	р		
IIBI 3	4B6	Solid State Devices & Chemical/Biological Sensors	р		
IIDES	4F8	Image Processing and Image Coding	р		
	4D14	Contaminated Land & Waste Containment	p+c		
	4B24	Radio Frequency Systems	p+c		
	4C5	Design Case Studies	C		
IIBL4	4D4	Construction Engineering	с		
	4G3	Computational Neuroscience	с		
	4413	Compustion and IC Engines	n		
	4B22	Elexible and Stretchable Electronics	р D		
IIBL5	4D5	Foundation Engineering	р n		
	460 4F14	Computer Systems	P n+c	Part I Digital Circuits and Computing assumed	
	-11 1-1		p·0	i art i Digital circulte and compating accurica	
	4F5	Advanced Information Theory and Coding	p	3F7 assumed	
IIBL6	4G2	Biosensors	P C		
-	417	Electricity and Environment	c		
			•		
	4C9	Continuum Mechanics	p		
IIBL7	4F2	Robust and Nonlinear Systems and Control	p		
	4M21	Software Engineering and Design	p		
			1-		
	4C8	Vehicle Dynamics	p+c		
	4F7	Statistical Signal Analysis	р		
IIBL8	418	Medical Physics	p	Physics to confirm if module will run	
	4111	Advanced Fission and Fusion Systems	c		
		· · · · ·			
	4E5	International Business	С	Timetabled with IIBL12	
IIDL9	4E12	Project Management	С	Part IIB Eng students only	
IIBL10	4M1	French	С		
	4A10	Flow Instability	р		
IIBL11	4F3	An Optimisation Based Approach to Control	р		
	4G6	Cellular and Molecular Biomechanics	р		
IIBL12	4E11	Strategic Management	С	Timetabled with IIBL9	
Long Vacation					
LV1	4M9	Surveying field course	с	Cap =16	