## 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

Unit	Title	Set	Mode	Notes
	ergy, Fluid Mechanics, and Turbomachinery	100.	meas	, notice
_		IIIAMAAA 17	1	Davida madula
3A1 3A3	Fluid Mechanics I	IIAM8&L7		Double module
	Fluid Mechanics II	IIAM7	•	Double module
3A5 3A6	Thermodynamics and Power Generation  Heat and Mass Transfer	IIAW7	p p	
<u> </u>		IIALS	þ	<u>!</u>
Group B: Ele	ectrical Engineering			
3B1	Radio Frequency Electronics	IIAM3	р	
3B2	Integrated Digital Electronics	IIAL3	p	
3B3	Switch-Mode Electronics	IIAM2	р	
3B4	Electric Drive Systems	IIAL2	р	
3B5	Semiconductor Engineering	IIAM8	p	
3B6	Photonic Technology	IIAL7	p	
Group C: Me	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	р	
3C7	Mechanics of Solids	IIAM4	р	
3C8	Machine Design	IIAM3	р	
3C9	Fracture Mechanics of Materials and Structures	IIAL5	р	
Group D: Civ	vil, Structural, and Environmental Engineering			
3D1	Geotechnical Engineering I	IIAM1	р	
3D2	Geotechnical Engineering II	IIAL1	p	
3D3	Structural Materials and Design	IIAM2	р	
3D4	Structural Analysis and Stability	IIAL2	р	
3D5	Water Engineering	IIAM10	p	
3D7	Finite Element Methods	IIAL4	p	
3D8	Building Physics and Environmental Geotechnics	IIAM3	p	
Group E: Ma	nagement and Manufacturing	•		
3E1	Business Economics	IIAL8	р	1
3E2	Marketing	IIAM9	р	
3E3	Modelling Risk	IIAM9	р	
3E6	Organisational Behaviour	IIAL8	р	
3E10	Operations Management for Engineers	IIAL8	p	
3E11	Environmental Sustainability & Business	IIAM9	р	
	ormation Engineering		i.	
3F1		THAMA	T <sub>n</sub>	•
3F2	Signals and Systems Systems and Control	IIAM4 IIAL5	р	
3F3	Statistical Signal Processing	IIALS IIAM1	р	
3F4	Data Transmission	IIAL6	p p	
3F7	Information Theory and Coding	IIAM5	р	
3F8	Inference	IIAL4	р	1
	pengineering	· · · · · · ·	<u>ı'</u>	
_		11 4 4 4 7	I.	
3G1	Introduction to Molecular Bioengineering	IIAM7	p	ļ
3G2	Mathematical Physiology	IIAL3	р	ļ
3G3 3G4	Introduction to Neuroscience  Medical Imaging and 3-D Computer Graphics	IIAL2 IIAL1	p	<del> </del>
3G5	Biomaterials	IIAL1	p p	
		IIVINO	۲	1
	ultidisciplinary modules	Inc.		
3M1	Mathematical Methods	IIAL10	p	<u> </u>
Group S: Mo	odules shared with Part IIB			
4C4	Design Methods	IIAM7	р	Shared module
4D16	Construction Management	IIAL9	р	Shared module. Alts with 4D8.
4M12	Partial Differential Equations and Variational Methods	IIAL9	р	Shared module
4M16	Nuclear Power Engineering	IIAL9	р	Shared module
-			•	•

## Part IIA Sets Michaelmas Term 2018-19

All lectures AM except those indicated as PM.

All lectures Alvi	except t	hose 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	p	
	004	i	<u>'</u>	
	3B1	Radio Frequency Electronics	р	
IIAM3	3C8	Machine Design	р	
	3D8	Building Physics and Environmental Geotechnics	р	
IIAM4	3C7	Mechanics of Solids	р	
IIAW4	3F1	Signals and Systems	р	
	3C1	Materials Processing and Design	р	Offered by MET as 3P1
IIAM5	3F7	Information Theory and Coding	p	
			!'	
IIAM6	3C5	Dynamics	р	
	3A5	Thermodynamics and Power Generation	р	
IIAM7	3G1	Introduction to Molecular Bioengineering	р	
	4C4	Design Methods	р	Shared with IIB
	3A1	Fluid Mechanics I	р	Double module
IIAM8	3B5	Semiconductor Engineering	р	Bodolo Module
IIAWO	3G5	Biomaterials	р	
			<u> </u>	
IIAM9 (PM	3E3	Modelling Risk	р	
lectures)	3E2	Marketing	р	
,	3E11	Environmental Sustainability & Business	р	
IIAM10 (PM	3D5	Water Engineering	р	
double lectures)				
		Part IIA Sets Lent Term 20	118-19	
		i dit ii/t doto Editt i di iii Ed	710-13	
Set	Unit	Title	Mode	Notes
Set	Unit 3A3			Notes Double module
Set		Title	Mode	
	3A3	Title Fluid Mechanics II	Mode p	
	3A3 3D2 3G4	Title Fluid Mechanics II Geotechnical Engineering II Medical Imaging & 3-D Computer Graphics	P P	
IIAL1	3A3 3D2 3G4 3B4	Title Fluid Mechanics II Geotechnical Engineering II Medical Imaging & 3-D Computer Graphics Electric Drive Systems	Mode p p p p	
	3A3 3D2 3G4 3B4 3D4	Title Fluid Mechanics II Geotechnical Engineering II Medical Imaging & 3-D Computer Graphics Electric Drive Systems Structural Analysis and Stability	Mode p p p p	
IIAL1	3A3 3D2 3G4 3B4 3D4 3G3	Title Fluid Mechanics II Geotechnical Engineering II Medical Imaging & 3-D Computer Graphics  Electric Drive Systems Structural Analysis and Stability Introduction to Neuroscience	p p p p p p	
IIAL1	3A3 3D2 3G4 3B4 3D4 3G3	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	P P P P P	
IIAL1	3A3 3D2 3G4 3B4 3D4 3G3 3A6 3B2	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	P P P P P P P P P P	
IIAL1	3A3 3D2 3G4 3B4 3D4 3G3	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	P P P P P	
IIAL2	3A3 3D2 3G4 3B4 3D4 3G3 3A6 3B2	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	P P P P P P P P P P	
IIAL1	3A3 3D2 3G4 3B4 3D4 3G3 3A6 3B2 3G2	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	P P P P P P P P P P P P P P P P P P P	
IIAL2	3A3 3D2 3G4 3B4 3D4 3G3 3A6 3B2 3G2 3D7 3F8	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	P P P P P P P P P P P P P P P P	
IIAL2	3A3 3D2 3G4 3B4 3D4 3G3 3A6 3B2 3G2 3D7 3F8	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	P P P P P P P P P P P P P P P P P P P	
IIAL2 IIAL3 IIAL4	3A3 3D2 3G4 3B4 3D4 3G3 3A6 3B2 3G2 3D7 3F8 3C9 3F2	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	P P P P P P P P P P P P P P P P P P P	
IIAL2 IIAL3 IIAL4 IIAL5	3A3 3D2 3G4 3B4 3D4 3G3 3A6 3B2 3G2 3D7 3F8 3C9 3F2	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	P P P P P P P P P P P P P P P P P P P	
IIAL2 IIAL3 IIAL4	3A3 3D2 3G4 3B4 3D4 3G3 3A6 3B2 3G2 3D7 3F8 3C9 3F2	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	P P P P P P P P P P P P P P P P P P P	
IIAL2 IIAL3 IIAL4 IIAL5 IIAL6	3A3 3D2 3G4 3B4 3D4 3G3 3A6 3B2 3G2 3D7 3F8 3C9 3F2	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	P P P P P P P P P P P P P P P P P P P	
IIAL2 IIAL3 IIAL4 IIAL5	3A3 3D2 3G4 3B4 3D4 3G3 3A6 3B2 3G2 3D7 3F8 3C9 3F2 3C6 3F4	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	P P P P P P P P P P P P P P P P P P P	Double module
IIAL2 IIAL3 IIAL4 IIAL5 IIAL6	3A3 3D2 3G4 3B4 3D4 3G3 3A6 3B2 3G2 3D7 3F8 3C9 3F2 3C6 3F4 3A1 3B6	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	Mode p p p p p p p p p p p p p p p p p p p	Double module
IIAL2 IIAL3 IIAL4 IIAL5 IIAL6 IIAL7	3A3 3D2 3G4 3B4 3D4 3G3 3A6 3B2 3G2 3D7 3F8 3C9 3F2 3C6 3F4 3A1 3B6	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	Mode p p p p p p p p p p p p p p p p p p p	Double module
IIAL2 IIAL3 IIAL4 IIAL5 IIAL6	3A3 3D2 3G4 3B4 3D4 3G3 3A6 3B2 3G2 3D7 3F8 3C9 3F2 3C6 3F4 3A1 3B6	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	Mode  p p p p p p p p p p p p p p p p p p	Double module
IIAL2 IIAL3 IIAL4 IIAL5 IIAL6 IIAL7	3A3 3D2 3G4 3B4 3D4 3G3 3A6 3B2 3G2 3D7 3F8 3C9 3F2 3C6 3F4 3A1 3B6 3E1 3E6 3E10	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 for engineers	Mode p p p p p p p p p p p p p p p p p p p	Double module  Double module
IIAL2  IIAL3  IIAL4  IIAL5  IIAL6  IIAL7  IIAL8 (PM lectures)	3A3 3D2 3G4 3B4 3D4 3G3 3A6 3B2 3G2 3D7 3F8 3C9 3F2 3C6 3F4 3A1 3B6 3E1 3E6 3E10	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 for engineers  Construction Management	P P P P P P P P P P P P P P P P P P P	Double module  Double module  Double module  Shared with IIB. Alternates with 4D8.
IIAL2 IIAL3 IIAL4 IIAL5 IIAL6 IIAL7	3A3 3D2 3G4 3B4 3D4 3G3 3A6 3B2 3G2 3D7 3F8 3C9 3F2 3C6 3F4 3A1 3B6 3E1 3E6 3E1 3E6 3E10	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 Construction Management Partial Differential Equations and Variational Methods	Mode P P P P P P P P P P P P P P P P P P P	Double module  Double module  Double module  Shared with IIB. Alternates with 4D8.  Shared with IIB
IIAL2  IIAL3  IIAL4  IIAL5  IIAL6  IIAL7  IIAL8 (PM lectures)	3A3 3D2 3G4 3B4 3D4 3G3 3A6 3B2 3G2 3D7 3F8 3C9 3F2 3C6 3F4 3A1 3B6 3E1 3E6 3E10	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 for engineers  Construction Management	P P P P P P P P P P P P P P P P P P P	Double module  Double module  Double module  Shared with IIB. Alternates with 4D8.
IIAL2  IIAL3  IIAL4  IIAL5  IIAL6  IIAL7  IIAL8 (PM lectures)	3A3 3D2 3G4 3B4 3D4 3G3 3A6 3B2 3G2 3D7 3F8 3C9 3F2 3C6 3F4 3A1 3B6 3E1 3E6 3E1 3E6 3E10	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 Construction Management Partial Differential Equations and Variational Methods	Mode P P P P P P P P P P P P P P P P P P P	Double module  Double module  Double module  Shared with IIB. Alternates with 4D8.  Shared with IIB