Requisite	Module	Module Name	ECTS	Taught in	Examined/	Duration of	Lectures Shared With:	Bonded
Type:	Code		Credits	Semester 1,	Submitted in	exam		with:
				2, or Full	Semester(s)	(hours)		
				Year				
		(1BG) First Unive	ersity Exa	amination in E	ngineering (Bi	omedical)		
	CH140	Engineering Chemistry	5	1	1	2 + c/a	All BE Programmes	
	CT1110	Engineering Computing I	5	1	1	2 + c/a	All BE Programmes, BCM	
	El160	Engineering Graphics	5	1	1	2hr	All BE Programmes, BCM	
						computer		
						based		
						exam + c/a		
	MA140	Engineering Calculus	5	1	1	2 + c/a	All BE Programmes	
	MP120	Engineering Mechanics	5	1	1	2 + c/a	All BE Programmes	
	CT1111	Engineering Computing II	5	2	2	2 + c/a	All BE Programmes	
	El150	Engineering Design	10	2	2	c/a	All BE Programmes, BCM	
	MM140	Engineering Mathematical Methods	5	2	2	2 + c/a	All BE Programmes	
	PH140	Engineering Physics	5	2	2	2 + c/a	All BE Programmes	
	El140	Fundamentals of Engineering	10	Full Year	1 + 2	2 + c/a	All BE Programmes	

Where there is no examination indicated it may be assumed that the examination is by continuous assessment = c/a

Requisite	Module	Module Name	ECTS	Taught in	Examined/	Duration of	Lectures Shared With:	Bonded
Type:	Code		Credit	Semester 1,	Submitted in	exam		with:
			S	2, or Full	Semester(s)	(hours)		
				Year				
		(2BG) Second Universit	y Exam	<u>ination in Eng</u>	ineering (Biom	nedical)		
	AN230	Human Body Structure	5	1	1	2 + c/a		
	EE231	Electronic Instrumentation and Sensors	5	1	1	2 + c/a	All BE Progs	
	MA2101	Mathematics & Applied Mathematics I	5	1	1	2 + c/a	All BE Progs	
	ME223	Thermodynamics and Fluid Mechanics	5	1	1	2 + c/a	2BM, 2BSE, 2BE, 2BEE	
	ST1100	Engineering Statistics	5	1	1	2 + c/a	All BE Progs	
	BME200	Introduction to Biomaterials	5	2	2	c/a		
	BME2100	Materials I	5	2	2	2 + c/a	2BM	
	MA2102	Mathematics & Applied Mathematics II	5	2	2	2 + c/a	All BE Progs	
	CE227	Strength of Materials	10	Full Year	2	2 + c/a	2BM, 2BSE, 2BE, 2BCM	
	ME2105	Manufacturing Technology & CAIRDE	5	Full Year	2	2 + c/a	2BM, 3BSE	
	ME2106	Theory of Machines & CADD	5	Full Year	1	2 + c/a	2BM, 2BSE	
		TOTAL FOR THE CO	I DMPUTA	TION OF HO	 NOURS	CTS		

Where there is no examination indicated it may be assumed that the examination is by continuous assessment = c/a

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Requisite	Module	Module Name	ECTS	Taught in	Examined/	Duration of	Lectures Shared With:	Bonded
Type:	Code		Credit	Semester 1,	Submitted in	exam		with:
			S	2, or Full	Semester(s)	(hours)		
				Year				
		(3BG1 – BE+ME pathway) Third U	Jniversit	y Examinatio	n in Engineeri	ng (Biomed	ical)	
	BME3132	Finite Element Methods in Engineering I	5	1	1	2 + c/a	3BM	
	BME3134	Biomedical Engineering Design I	5	1	1	2 + c/a	MBM	
	BME328	Principles of Biomaterials	5	1	1	Project		
	ME301	Fluid Dynamics	5	1	1	2 + c/a	3BM, 3BSE	
	ME304	Mechanical Analysis and Design	5	1	1	2	3BM, 3BSE, 4BEE	
	ME322	Thermodynamics and Heat Transfer	5	1	1	2 + c/a	3BM, 3BG, 3BSE, 4BG	
	BME3133	Biomedical Engineering Physiology	5	2	2	2 + c/a		
	BME3135	Biomedical Engineering Design II	5	2	2	2 + c/a	MBM	
	BME4101	Biotransport	5	2	2	2 + Project	4BG, MBM, SPE	
	ME312	Automated Systems	5	2	2	2 + c/a	3BM	
	ME353	Quality Systems	5	2	2	2 + c/a	3BM	
	PA405	Elements of Pathology	5	2	2	c/a	4BG	

Requisite	Module	Module Name	ECTS	Taught in	Examined/	Duration of	Lectures Shared With:	Bonded
Type:	Code		Credit	Semester 1,	Submitted in	exam		with:
			S	2, or Full	Semester(s)	(hours)		
				Year				
		(3BG4 – BE pathway) Third Un	iversity	Examination	in Engineering	g (Biomedica	al)	
	BME3132	Finite Element Methods in Engineering I	5	1	1	2 + c/a	3BM	
	BME3134	Biomedical Engineering Design I	5	1	1	2 + c/a		
	BME328	Principles of Biomaterials	5	1	1	Project		
	ME301	Fluid Dynamics	5	1	1	2 + c/a	3BM, 3BSE	
	ME304	Mechanical Analysis and Design	5	1	1	2	3BM, 3BSE, 4BEE	
	ME322	Thermodynamics and Heat Transfer	5	1	1	2 + c/a	3BM, 3BG, 3BSE, 4BG	
	BME3133	Biomedical Engineering Physiology	5	2	2	2 + c/a		
	BME3135	Biomedical Engineering Design II	5	2	2	2 + c/a		
	ME3102	Project Management for Engineers (online module)	5	2	2	c/a	3BM, 3BSE, 3BLE, 3BP	
	ME3104	Intro to Regulatory Affairs in Manufacturing (online module)	5	2	2	c/a	3BM, MBM, 3HF2, MECE, MEEE, MEME	
	ME312	Automated Systems	5	2	2	2 + c/a	3BM	
	ME353	Quality Systems	5	2	2	2 + c/a	3BM	

Requisite	Module	Module Name	ECTS	Taught in	Examined/	Duration of	Lectures Shared	Bonded
Type:	Code		Credit	Semester(s)	Submitted in	exam	With:	with:
			S		Semester(s)	(hours)		
		(4BG1 – BE+ME pathw	ay) BE	Degree Exam	ination (Biome	edical)		
	BME400	Biomechanics	5	1	1	2 + c/a	4BM, SPE, MBM	
	BME5104	Finite Element Methods in Engineering II	5	1	1	2+c/a	4BM	
	ME4112	Computational Fluid Dynamics	5	1	1	2+c/a	4BM	
	BME405	Tissue Engineering	5	1	1	2 + c/a	MBM, 1MV, 1MSR, SPE	
	BME4106	Biomedical Group Project	5	1	1	C/A		
	ME4109	Materials II	5	1	1	2 + c/a	4BM	
	BME4107	Biomedical Professional Experience Programme*	20	2	2	d/a		
	ME3102	Project Management for Engineers (online module)	5	2	2	c/a	ЗВМ	
	ME3104	Intro to Regulatory Affairs in Manufacturing (online module)	5	2	2	c/a	ЗВМ	

Requisite		Module Name	ECTS Cradit	Taught in	Examined/	Duration of	Lectures Shared With:	Bonded
Type:	Code		Credit s	Semester(s)	Submitted in Semester(s)	exam (hours)	vvitii.	with:
		(4BG4 – BE pathway	/) BE De	egree Examin	ation (Biomedi	ical)		
	BME400	Biomechanics	5	1	1	2 + c/a	4BM, SPE, MBM	
	BME5104	Finite Element Methods in Engineering II	5	1	1	2+c/a	4BM	
	ME4112	Computational Fluid Dynamics	5	1	1	2+c/a	4BM	
	BME405	Tissue Engineering	5	1	1	2 + c/a	MBM, 1MV, 1MSR, SPE	
	ME4109	Materials II	5	1	1	2 + c/a	4BM, 4BSE, MBM, MEME, MEC	
	BME4101	Biotransport	5	2	2	2 + Project	3BG1, MEB, MBM, SPE	
	PA405	Elements of Pathology	5	2	2	c/a	3BG1	
	BME4102	Biomedical Engineering Project	10	Full Year	2	C/A		
	BME5101	Mechanobiology	5	2	2	c/a	MEB, MBM	
	ME572	Human Reliability	5	2	2	2 + c/a		IE444
	BME4108	Biomedical Professional Experience Programme 4 Year BE*	5	2	2	d/a		