## Course of Study General Engineering Science (English program, 7 semester) (Study Cohort w18)

Sample course plan A Bachelor General Engineering Science (English program, 7 semester) (GESBS(7)) Specialisation Biomedical Engineering

Legend:			
Core qualification Compulsory	Specialisation Compulsory	Focus Compulsory	Thesis Compulsory
Core qualification Elective Compulsory	Specialisation Elective Compulsory		Interdisciplinary complement

LP	Semester 1	ForMrs	/wskemester 2 Forthirs	/&kmester 3 Fo	r <b>itti</b> rs/	/wskemester 4 For	r <b>itti</b> rs/	/wskemester 5 Forhhr	s/&kmester 6	For <b>M</b> rs,	Wakemester 7 Forhhrs/v
1 2	Chemistry (GES)		Technical	Technical		Fundamentals of		Introduction to Control	Foundations of		Advanced Internship AIW/
2	Chemistry I	VL 2	Thermodynamics I	Thermodynamics II		Materials Science (part	2)	Systems	Management		GES
	Chemistry II	VL 2			. 2		. 2	Introduction to VL 2	Introduction to	VL 3	
	Chemistry I	HÜ 1	Thermodynamics I	Thermodynamics II		Materials Science II		Control Systems	Management		
3	Chemistry II	HÜ 1	Technical HÜ 1 Thermodynamics I	Technical HÜ Thermodynamics II	Ü 1	Signals and Systems		Introduction to UE 2 Control Systems	Management Tutorial	UE 2	
4			Technical UE 1	•	1	Signals and Systems VL	. 3	Control Systems			
5			Thermodynamics I	Thermodynamics II		Signals and Systems UE					
6			•	·							
7	Linear Algebra		Mathematical Analysis	Mathematics III				Mechanical Engineering:	Mechanical Engineer	ring:	
8	Linear Algebra	VL 4	Mathematical Analysis VL 4	Analysis III VL	. 2			Design (part 1)	Design (part 2)		
9	Linear Algebra	HÜ 2	Mathematical Analysis HÜ 2	Analysis III UE	1	Fluid Dynamics		Embodiment Design VL 2	, ,	PBL2	
	Linear Algebra	UE 2	Mathematical Analysis UE 2	Analysis III HÜ	٦ J	Fluid Mechanics VL	. 3	and 3D-CAD	Methodology	DD1 3	
				Differential Equations VL	. 2	Fluid Mechanics HÜ	j 2	Mechanical Design PBL3 Project I	Mechanical Design Project II	PBL3	
10				1				Trojecti	r roject ii		
11				Differential Equations UE	1			Numerical Mathematics I	Introduction into Me		
12				1				Numerical VL 2	Technology and Syst		
13				Differential Equations HÜ	JI			Mathematics I	Introduction into Medical Technology	VL 2	
14				_				Numerical UE 2 Mathematics I	and Systems		
15	Flactainal Facility and		Floatsiaal Foods accion U	Markania III (CCC)		Markania IV (Vinatia)		Placification 1	Introduction into	PS 2	
	Electrical Engineerin	_	Electrical Engineering II	Mechanics III (GES)	Ü 1	Mechanics IV (Kinetics Oscillations, Analytical			Medical Technology		
	Electrical Engineering	VL 3	Electrical Engineering VL 3			Mechanics, Multibody			and Systems		
	Electrical Engineering	UF 2	Electrical Engineering UE 2		2	Systems)			Introduction into Medical Technology	HÜ 1	
	1		II	Mechanics III VL	. 3	Mechanics IV VL	. 3		and Systems		
16						Mechanics IV UE					
17						Mechanics IV HÜ	1	Heat Transfer	MED II: Introduction Physiology	to	
18								Heat Transfer VL 3	Introduction to	VL 2	
								Heat Transfer HÜ 2	Physiology	VL Z	
19											
20									BIO I: Experimental Methods in Biomech	anice	Bachelor Thesis
21	M. J. J. J. (050)		M. J. J. W (070)			MED I I I I I I I			Experimental Methods		
	Mechanics I (GES)		Mechanics II (GES)	Computer Engineering	2	MED I: Introduction to Anatomy			in Biomechanics	VL Z	
22		VL 2	Mechanics II VL 2	Computer Engineering VL		•	. 2				
23	Mechanics I	HÜ 3	Mechanics II HÜ 2	Computer Engineering UE	: 1	Anatomy		Measurement Technology			
24								for Mechanical Engineers			
25						MED I: Introduction to Radiology and Radiatio	n	Measurement VL 2 Technology for			
26							•				
26						Therapy		Mechanical			

27 28 29 30	Programming in C Programming in C VL 1 Programming in C PR 1  Physics for Engineers (GES) Physics for Engineers VL 2 Physics for Engineers UE 1	Fundamentals of Mechanical Engineering (GES) Fundamentals of VL 2 Mechanical Engineering Fundamentals of UE 2 Mechanical Engineering	Fundamentals of Materials Science (part 1) Fundamentals of VL 2 Materials Science I Physical and Chemical VL 2 Basics of Materials Science	Introduction to Radiology and Radiation Therapy	VL 2	Engineering Measurement Technology for Mechanical Engineering Practical Course: Measurement and Control Systems  MED II: Introduction Biochemistry and Molecular Biology Introduction to Biochemistry and Molecular Biology	HÜ 1 PR 2  1 to VL 2
31 32 33						BIO I: Implants and Fracture Healing Implants and Fracture Healing	
	Nontechnical Complementary (	Courses for Bachelors (from cat	alogue) - 6LP				

The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.