## Course of Study General Engineering Science (English program, 7 semester) (Study Cohort w17)

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	Focus Elective Compulsory	Interdisciplinary complement

LP	Semester 1	For <b>it</b> irs/	մնkmester 2	For <b>it</b> irs,	/&kmester 3	Formers	/พิหmester 4	Formers	/ <b>&amp;k</b> mester 5	Formers	/\@kmester 6	Formins	Wakemester 7 Forhhrs/
1 2	Chemistry (GES) Chemistry I	VL 2	Technical Thermodynamics I		Technical Thermodynamics II		Fundamentals of Materials Science (	part 2)	Introduction to Cont Systems	rol	Foundations of Management		Advanced Internship AIW/ GES
	Chemistry II	VL 2	Technical Thermodynamics I	VL 2	Technical Thermodynamics II	VL 2	Fundamentals of Materials Science II	VL 2	Introduction to Control Systems	VL 2	Introduction to Management	VL 3	
3		HÜ 1 HÜ 1	Technical Thermodynamics I	HÜ 1	Technical Thermodynamics II	HÜ 1	Signals and System	ıs	Introduction to Control Systems	UE 2	Management Tutorial	HÜ 2	
5			Technical Thermodynamics I	UE 1	Technical Thermodynamics II	UE 1	Signals and Systems Signals and Systems						
7 8	Linear Algebra		Mathematical Analys	is	Mathematics III				Mechanical Engineer	ing:	Mechanical Enginee	ring:	
9	Linear Algebra	VL 4	Mathematical Analysis	VL 4	Analysis III	VL 2			Design (part 1)		Design (part 2)		
9	3	HÜ 2 UE 2	Mathematical Analysis Mathematical Analysis		Analysis III Analysis III	UE 1 HÜ 1	Fluid Dynamics Fluid Mechanics	VL 3	Embodiment Design and 3D-CAD	VL 2	Team Project Design Methodology	PBL2	
	Lilleal Algebra	OL Z	Mathematical Alialysis	OL Z	Differential Equations		Fluid Mechanics	HÜ 2	Mechanical Design Project I	PBL3	Mechanical Design Project II	PBL3	
10					Differential Equations	UE 1			Numerical Mathemat	tics I	Introduction into Me	edical	
11 12					1					VL 2	Technology and Sys		
13					Differential Equations 1	HÜ 1			Mathematics I		Introduction into Medical Technology	VL 2	
14					-				Numerical Mathematics I	UE 2	and Systems		
15	Electrical Engineering	-	Electrical Engineerin	_	Mechanics III (GES)	HÜ 1	Mechanics IV (Kinet				Introduction into Medical Technology	PS 2	
	Electrical Engineering '	VL 3	Electrical Engineering	VL 3	Mechanics III Mechanics III	UE 2	Mechanics, Multibo				and Systems Introduction into	HÜ 1	
	Electrical Engineering	UE 2	Electrical Engineering	UE 2	Mechanics III	VL 3	Systems) Mechanics IV	VL 3			Medical Technology and Systems	110 1	
16							Mechanics IV	UE 2 HÜ 1	Heat Transfer		MED II: Introduction	to	
17							Mechanics IV	но 1		VL 3	Physiology		
18										HÜ 2	Introduction to Physiology	VL 2	
19											BIO I: Experimental		Bachelor Thesis
20											Methods in Biomech	anics	23
21	Mechanics I (GES)		Mechanics II (GES)		Computer Engineer	ing	MED I: Introduction	to			Experimental Methods	VL 2	
22			Mechanics II	VL 2	Computer Engineering		Anatomy	\ <i>(</i> 1, 0)			in Biomechanics		
22 23	Mechanics I	HÜ 3	Mechanics II	HÜ 2	Computer Engineering	UE 1	Introduction to Anatomy	VL 2	Measurement Technology for Mechanical and	ology			
24							MED I: Introduction	to	Process Engineers				
25							Radiology and Radi		Measurement	VL 2			
26							Therapy		Technology for				

Programming in C			Radiation Therapy		Measurement HÜ	1	
Programming in C VL 1 Programming in C PR 1	Fundamentals of Mechanical Engineering (GES) Fundamentals of VL 2 Mechanical	Fundamentals of Materials Science (part 1) Fundamentals of VL 2 Materials Science I  Physical and Chemical VL 2			Technology for Mechanical and Process Engineers Practical Course: Measurement and Control Systems	. 2	
	Engineering	Basics of Materials			MED II: Introduction to		
Physics for Engineers (GES)	Mechanical Engineering	Science			Biochemistry and Molecular Biology		
Physics for Engineers VL 2 Physics for Engineers UE 1					Introduction to VL Biochemistry and Molecular Biology	. 2	
					BIO I: Implants and		
						2	
	Physics for Engineers (GES) Physics for Engineers VL 2 Physics for Engineers UE 1	Physics for Engineers (GES) Physics for Engineers VL 2 Physics for Engineers VL 2 Physics for Engineers VL 1	Fundamentals of Mechanical Engineering  Physics for Engineers (GES)  Physics for Engineers VL 2  Fundamentals of Mechanical Engineering  Fundamentals of Mechanical Engineering  Fundamentals of Mechanical Engineering  Fundamentals of Mechanical Engineering	Fundamentals of Mechanical Engineering  Physics for Engineers (GES)  Physics for Engineers VL 2 Physics for Engineers UE 1  Fundamentals of Mechanical Science I Physical and Chemical VL 2 Basics of Materials Science  VL 2 Physics for Engineers VL 2 Physics for Engineers UE 1	Fundamentals of Mechanical Engineering  Physics for Engineers (GES)  Physics for Engineers VL 2 Physics for Engineers UE 1  Fundamentals of Mechanical Engineering  Fundamentals of Mechanical Engineering  WE 2  Materials Science I Physical and Chemical VL 2 Basics of Materials  Science  Physics for Engineers VL 2 Physics for Engineers UE 1	Fundamentals of Mechanical Engineering  Physics for Engineers (GES)  Physics for Engineers UE 1  Materials Science I  Physical and Chemical VL 2  Basics of Materials  Science  Mechanical Engineering  WED II: Introduction to Biochemistry and Molecular Biology  Introduction to Biochemistry and Molecular Biology  BIO I: Implants and Fracture Healing  Implants and Fracture VL Healing	Fundamentals of Mechanical Engineering  Physics for Engineers (GES)  Physics for Engineers VL 2 Physics for Engineers UE 1  Physics for Engineers VL 2 Physi

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