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

ecia	isation Biomedical Engineering	Semester 2	FormHrs/wk	Semester 3	FormHrs/wk	Semester 4 FormHrs/wk	Semester 5 F	ormHrs/wk	Semester 6	FormHrs/wk	Semester 7	FormHrs
												-
	Chemistry	Electrical Engineering II: Alternating Networks and Basic Devices	Current	Technical Thermodynamics II		Fundamentals of Materials Science (part 2)	Introduction to Control Systems		Foundations of Management		Advanced Internship AIW/ GES	
	Chemistry I VL 2		VL 3	Technical Thermodynamics II	VL 2	Fundamentals of Materials Science II VL 2		VL 2	Introduction to Management	VL 3		
	Chemistry II VL 2 Chemistry I HÜ 1	Current Networks and Basic Devices	VL 5	Technical Thermodynamics II	ΗÜ 1 GÜ 1	Signals and Systems	Introduction to Control Systems	GŪ 2	Management Tutorial	HÜ 2		
	Chemistry I HÜ I Chemistry II HÜ 1		GÜ 2	Technical Thermodynamics II	GU I	Signals and Systems VL 3						
	Chemistry II HU I	Current Networks and Basic Devices				Signals and Systems GŪ 2						
	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	Fundamentals of Mechanical Enginee Design	ering	Mathematics III			Mechanical Engineering: Design (part		Mechanical Engineering: Design	-		
	Electrical Engineering I: Direct Current VL 3	Fundamentals of Mechanical Engineering	VII 2	Analysis III	VL 2		Embodiment Design and 3D-CAD	VL 2	Team Project Design Methodology	PBL 2		
	Networks and Electromagnetic Fields	Design	VL Z	Analysis III Analysis III	GŪ 1 HÜ 1	Fluid Dynamics	Mechanical Design Project I	PBL 3	Mechanical Design Project II	PBL 3		
	Electrical Engineering I: Direct Current GŪ 2	Fundamentals of Mechanical Engineering	HÜ 2			Fluid Mechanics VL 3						
)	Networks and Electromagnetic Fields	Design		Differential Equations 1 Differential Equations 1	VL 2 GŪ 1	Fluid Mechanics HÜ 2	Numerical Mathematics I		Introduction into Medical Techno	logy and		
1				Differential Equations 1 Differential Equations 1	GU I HÜ 1	10 2		VL 2	Systems			
2				Differential Equations 1	HU I		Numerical Mathematics I	GŪ 2	Introduction into Medical Technology Systems	and VL 2		
									Introduction into Medical Technology	and PS 2		
3	Mathematics I	Technical Thermodynamics I							Systems	and 15 2		
Ļ	Linear Algebra I VL 2	Technical Thermodynamics I	VL 2						Introduction into Medical Technology	and HÜ 1		
5	Linear Algebra I GÜ 1	Technical Thermodynamics I	HÜ 1	Mechanics III (Hydrostatics, Kinema	tico	Mechanics IV (Kinetics II, Oscillations,			Systems			
	Linear Algebra I HÜ 1	Technical Thermodynamics I	GŪ 1	Kinetics I)	itics,	Analytical Mechanics, Multibody Systems)						
6	Analysis I VL 2			Mechanics III	VL 3	Mechanics IV VL 3	Heat Transfer		MED II: Introduction to Physiolog	-		
7	Analysis I GŪ 1 Analysis I HŪ 1			Mechanics III	GÜ 2	Mechanics IV GŪ 2		VL 3	Introduction to Physiology	VL 2		
8	Analysis I HÜ 1			Mechanics III	HÜ 1	Mechanics IV HÜ 1	Heat Transfer	HÜ 2				
9		Mechanics II: Mechanics of Materials							BIO I: Experimental Methods in B		Bachelor Thesis	
D		Mechanics II	VL 2						Experimental Methods in Biomechan	ics VL 2		
1	Mechanics I (Statics)		GÜ 2	Computer Engineering		MED I: Introduction to Anatomy						
	Mechanics I VL 2	Mechanics II	HÜ 2	Computer Engineering	VL 3	Introduction to Anatomy VL 2						
2	Mechanics I GŪ 2			Computer Engineering	GÜ 1		Measurement Technology for Mechan	ical and				
3	Mechanics I HÜ 1						Process Engineers					
1						MED I: Introduction to Radiology and	Measurement Technology for Mechanical and Process Engineers	VL 2				
						Radiation Therapy	Measurement Technology for Mechanical	HÜ 1				
5		Mathematics II				Introduction to Radiology and Radiation VL 2	and Process Engineers					
6		Linear Algebra II	VL 2			Therapy		PR 2				
7	Programming in C		GŪ 1	Fundamentals of Materials Science	(nart 1)		Control Systems					
	Programming in C VL 1	Linear Algebra II	HÜ 1	Fundamentals of Materials Science I	VL 2							
3	Programming in C PR 1	Analysis II Analysis II	VL 2 HÜ 1	Physical and Chemical Basics of Materia			MED II: Introduction to Biochemistry a	nd				
			HU I GÜ 1	Science			Molecular Biology	10 2				
	Physics for Engineers (AIW)	Anarysis if	00 1				Introduction to Biochemistry and Molecular Biology	VL 2				
)	Physics for Engineers VL 2 Physics for Engineers GŪ 1						Holecular blology					
	Physics for Engineers GÜ 1						BIO I: Implants and Fracture Healing					
L								VL 2				
2												

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