Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w20)

Core Qualification Compulsory

	_					Core Qualification Compulsory	Specialis	sation Compulsory Fo	ocus Compulsory	Thesis Compulsory	
Sample	e course plan B Bachelor Gener	al Engineering Science (German	n program, 7 semester) (AIWE	S(7))		Core Qualification Elective Compulsory	Specialis	ation Elective Compulsory Fo	ocus Elective Compuls	ory Interdisciplinary comple	ment
	isation Mechanical Engineering		F		FormHrs/wk	Semester 5 Fe	ormHrs/wk	Semester 6	FormHrs/wk	Semester 7	FormHrs/wl
1			-								
_	Chemistry	Electrical Engineering II: Alternating Current Networks and Basic Devices	Technical Thermodynamics II	Signals and Systems	VII 2	Introduction to Control Systems		Foundations of Management		Advanced Internship AIW/ ES	CF 1
2	Chemistry I+II VL 4 Chemistry I+II HÜ 2	Electrical Engineering II: Alternating VL 3	Technical Thermodynamics II VL 2 Technical Thermodynamics II HÜ 1	Signals and Systems Signals and Systems	VL 3 GÜ 2		VL 2 GÜ 2	Introduction to Management Management Tutorial	VL 3 GÜ 2	Advanced Internship AIW/ ES: Preparation	SE 1
3	Chemistry I+II HO 2	Current Networks and Basic Devices	Technical Thermodynamics II GÜ 1	Signals and Systems	GU 2	introduction to Control Systems	3U Z	Management Tutorial	GU 2	Advanced Intenship AIW/ ES: Internshi	in. SF 1
4		Electrical Engineering II: Alternating GŪ 2	recinical memodynamics ii 00 1							accompanying Seminar	
		Current Networks and Basic Devices									
5											
6											
7	Electrical Engineering I: Direct Current	Fundamentals of Mechanical Engineering	Mathematics III	Fluid Dynamics		Measurement Technology for Mechani	cal	Modeling, Simulation and Op	ptimization (EN)		
-	Networks and Electromagnetic Fields	Design	Analysis III VL 2	Fluid Mechanics	VL 3	Engineers		Modeling, Simulation and Optim			
8	Electrical Engineering I: Direct Current VL 3	Fundamentals of Mechanical Engineering VL 2	Analysis III GÜ 1	Fluid Mechanics	HÜ 2	Measurement Technology for Mechanical	VL 2	3			
9	Networks and Electromagnetic Fields	Design	Analysis III HÜ 1			Engineering					
10	Electrical Engineering I: Direct Current GÜ 2	Fundamentals of Mechanical Engineering HÜ 2	Differential Equations 1 VL 2			Measurement Technology for Mechanical	HÜ 1				
11	Networks and Electromagnetic Fields	Design	Differential Equations 1 GÜ 1			Engineering					
			Differential Equations 1 HÜ 1			Practical Course: Measurement and Control Systems	PR 2				
12						Control Systems					
13	Mathematics I	Technical Thermodynamics I		Mechanics IV (Oscillations, Analytica	ı	Numerical Mathematics I		Electrical Machines and Actu	uators		
14	Linear Algebra I VL 2	Technical Thermodynamics I VL 2		Mechanics, Multibody Systems, Num	erical	Numerical Mathematics I	VL 2	Electrical Machines and Actuator	ors VL 3		
	Linear Algebra I GÜ 1	Technical Thermodynamics I HÜ 1		Mechanics)		Numerical Mathematics I	GÜ 2	Electrical Machines and Actuator	ors HÜ 2		
15	Linear Algebra I HÜ 1	Technical Thermodynamics I GÜ 1	Mechanics III (Dynamics)	Mechanics IV	VL 3						
16	Analysis I VL 2		Mechanics III VL 3 Mechanics III GÜ 2	Mechanics IV Mechanics IV	GÜ 2 HÜ 1						
17	Analysis I GŪ 1		Mechanics III GU 2	mechanics iv	HU I						
18	Analysis I HÜ 1		Tio 1								
19		Mechanics II: Mechanics of Materials		Advanced Mechanical Engineering D (part 2)	esign	Heat Transfer		Machine Learning I		Bachelor Thesis	
20		Mechanics II VL 2 Mechanics II GÜ 2		Advanced Mechanical Engineering	VL 2		VL 3 HÜ 2	Machine Learning I Machine Learning I	VL 2 GÜ 2		
21	Mechanics I (Statics)	Mechanics II HÜ 2	Advanced Mechanical Engineering Design	Design II		Treat Transfer	110 2	Machine Cearning I	G0 2		
	Mechanics I VL 2		(part 1)	Advanced Mechanical Engineering	HÜ 2						
	Mechanics I GÜ 2		Advanced Mechanical Engineering VL 2	Design II							
22	Mechanics I HÜ 1		Design I	Mechanical Engineering: Design (pa	t 2)						
23			Advanced Mechanical Engineering HÜ 2 Design I	Team Project Design Methodology	PBL 2						
			-	Mechanical Design Project II	PBL 3						
24			Mechanical Engineering: Design (part 1)								
25		Mathematics II	Embodiment Design and 3D-CAD VL 2 Mechanical Design Project I PBL 3	Fundamentals of Materials Science (Computer Engineering					
26		Linear Algebra II VL 2	FDL 3	Fundamentals of Materials Science II	VL 2		VL 3				
27	Programming in C	Linear Algebra II GÜ 1	Fundamentals of Materials Science (part 1)			Computer Engineering	GÜ 1				
	Programming in C VL 1	Linear Algebra II HÜ 1 Analysis II VL 2	Fundamentals of Materials Science (part 1) Fundamentals of Materials Science I VL 2								
28	Programming in C PR 1	Analysis II VL 2 Analysis II HÜ 1	Physical and Chemical Basics of Materials VL 2								
29	Physics for Engineers (AIW)	Analysis II GÜ 1	Science								
	Physics for Engineers (AIW) Physics for Engineers VL 2	30 1									
30	Physics for Engineers GÜ 1										
31											
32											
	Non-technical Courses for Bachelors (fr	rom catalogue) ELD									

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