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

					Core Qualification Compulsory Specialis	sation Compulsory Focus Compulsory	Thesis Compulsory
Sample	course plan A Bachelor Gener	al Engineering Science (Germa	an program, 7 semester) (AIWBS	5(7))	Core Qualification Elective Compulsory Specialis	sation Elective Compulsory Focus Elective Compuls	Interdisciplinary complement
	isation Mechanical Engineering	Francis Manufacture Con-			Semester 5 FormHrs/wk	Semester 6 FormHrs/wl	k Semester 7 FormHrs/wk
1	Chemistry	Electrical Engineering II: Alternating Current	Technical Thermodynamics II	Mechanical Engineering: Design (part 2)	Introduction to Control Systems	Foundations of Management	Advanced Internship AIW/ ES
	Chemistry I VL 2	Networks and Basic Devices	Technical Thermodynamics II VL 2	Team Project Design Methodology PBL 2	Introduction to Control Systems VL 2	Introduction to Management VL 3	Advanced Internship AIW/ ES: SE 1
2	Chemistry II VL 2	Electrical Engineering II: Alternating VL 3	Technical Thermodynamics II HÜ 1	Mechanical Design Project II PBL 3	Introduction to Control Systems GÜ 2	Management Tutorial GÜ 2	Preparation
3	Chemistry I HÜ 1	Current Networks and Basic Devices	Technical Thermodynamics II GÜ 1		•	1	Advanced Intenship AIW/ ES: Internship- SE 1
4	Chemistry II HÜ 1	Electrical Engineering II: Alternating GÜ 2		Fundamentals of Materials Science (part 2)			accompanying Seminar
-		Current Networks and Basic Devices		Fundamentals of Materials Science II VL 2			
5				Tundamentals of Materials Science ii VE 1			
6				Advanced Mechanical Engineering Design			
7	Electrical Engineering I: Direct Current	Fundamentals of Mechanical Engineering	Mathematics III	(part 2)	Computer Engineering	Semiconductor Circuit Design	
8	Networks and Electromagnetic Fields	Design	Analysis III VL 2	Advanced Mechanical Engineering VL 2	Computer Engineering VL 3	Semiconductor Circuit Design VL 3	
8	Electrical Engineering I: Direct Current VL 3	Fundamentals of Mechanical Engineering VL 2	Analysis III GÜ 1	Design II Advanced Mechanical Engineering HÜ 2	Computer Engineering GÜ 1	Semiconductor Circuit Design GÜ 1	
	Networks and Electromagnetic Fields	Design	Analysis III HÜ 1	Advanced Mechanical Engineering HÜ 2 Design II			
	Electrical Engineering I: Direct Current GÜ 2	Fundamentals of Mechanical Engineering HÜ 2	Differential Equations 1 VL 2				
9	Networks and Electromagnetic Fields	Design	Differential Equations 1 GÜ 1	Fluid Dynamics			
10			Differential Equations 1 HÜ 1	Fluid Mechanics VL 3			
11				Fluid Mechanics HÜ 2			
12							
13	Mathematics I	Technical Thermodynamics I			Measurement Technology for Mechanical	Mathematics IV	
14	Linear Algebra I VL 2	Technical Thermodynamics I VL 2			Engineers	Complex Functions VL 2	
	Linear Algebra I GÜ 1	Technical Thermodynamics I HÜ 1			Measurement Technology for Mechanical VL 2	Complex Functions GÜ 1	
15	Linear Algebra I HÜ 1	Technical Thermodynamics I GÜ 1	Mechanics III (Hydrostatics, Kinematics,	Mechanics IV (Kinetics II, Oscillations,	Engineering	Complex Functions HÜ 1	
16	Analysis I VL 2		Kinetics I) Mechanics III VL 3	Analytical Mechanics, Multibody Systems) Mechanics IV VL 3	Measurement Technology for Mechanical HÜ 1	Differential Equations 2 VL 2	
17	Analysis I GÜ 1		Mechanics III	Mechanics IV VL 3 Mechanics IV GÜ 2	Engineering Practical Course: Measurement and PR 2	Differential Equations 2 GÜ 1	
	Analysis I HÜ 1		Mechanics III HÜ 1	Mechanics IV HÜ 1	Control Systems	Differential Equations 2 HÜ 1	
18			Mechanics III	Mechanics IV 110 1			
19		Mechanics II: Mechanics of Materials			Electrical Engineering III: Circuit Theory and	Electrical Machines and Actuators	Bachelor Thesis
20		Mechanics II VL 2			Transients	Electrical Machines and Actuators VL 3	
		Mechanics II GÜ 2			Circuit Theory VL 3	Electrical Machines and Actuators HÜ 2	
21	Mechanics I (Statics)	Mechanics II HÜ 2	Mechanical Engineering: Design (part 1)	Signals and Systems	Circuit Theory GÜ 2		
22	Mechanics I VL 2 Mechanics I GÜ 2		Embodiment Design and 3D-CAD VL 2 Mechanical Design Project I PBL 3	Signals and Systems VL 3 Signals and Systems GÜ 2			
23	Mechanics I GU 2 Mechanics I HÜ 1		Mechanical Design Project 1 PBL 3	Signals and Systems GŪ 2			
24	no i						
			Fundamentals of Materials Science (part 1) Fundamentals of Materials Science I VL 2				4
25		Mathematics II	Physical and Chemical Basics of Materials VL 2		Simulation and Design of Mechatronic		
26		Linear Algebra II VL 2	Science Science		Systems		
27	Programming in C	Linear Algebra II GÜ 1			Simulation and Design of Mechatronic VL 2 Systems		
	Programming in C VL 1	Linear Algebra II HÜ 1			Simulation and Design of Mechatronic HÜ 1		
28	Programming in C VL 1 Programming in C PR 1	Analysis II VL 2	Advanced Mechanical Engineering Design		Systems Systems		
20		Analysis II HÜ 1	(part 1)		Simulation and Design of Mechatronic PR 1		
29	Physics for Engineers (AIW)	Analysis II GÜ 1	Advanced Mechanical Engineering VL 2		Systems		
30	Physics for Engineers VL 2		Design I Advanced Mechanical Engineering HÜ 2				
	Physics for Engineers GÜ 1		Design I				
31						1	
32							
	Nontachnical Complementary Courses	(D					

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