Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w19)

	j	-				sation Compulsory Focus Compulsory	Thesis Compulsory
Sample	e course plan A Bachelor Gener	al Engineering Science (Germa	n program, 7 semester) (AIWBS	5(7))	Core Qualification Elective Compulsory Specialis	sation Elective Compulsory Focus Elective Compuls	ory Interdisciplinary complement
Special	lisation Mechanical Engineering	, Focus Theoretical Mechanical	Engineering				
1							
	Chemistry Chemistry I VL 2	Electrical Engineering II: Alternating Current Networks and Basic Devices	Technical Thermodynamics II Technical Thermodynamics II VL 2	Signals and Systems Signals and Systems VL 3	Introduction to Control Systems Introduction to Control Systems VL 2	Foundations of Management Introduction to Management VL 3	Advanced Internship AIW/ ES Advanced Internship AIW/ ES: SE 1
2	Chemistry II VL 2	Electrical Engineering II: Alternating VL 3	Technical Thermodynamics II VL 2 Technical Thermodynamics II HÜ 1	Signals and Systems GÜ 2	Introduction to Control Systems GŪ 2	Management Tutorial GŪ 2	Preparation SE 1
3	Chemistry I HÜ 1	Current Networks and Basic Devices	Technical Thermodynamics II GŪ 1	Signals and Systems 00 2	indoduction to control systems 66 2		Advanced Intenship AIW/ ES: Internship- SE 1
4	Chemistry II HÜ 1	Electrical Engineering II: Alternating GÜ 2					accompanying Seminar
		Current Networks and Basic Devices					
5							
6							
7	Electrical Engineering I: Direct Current	Fundamentals of Mechanical Engineering	Mathematics III	Fluid Dynamics	Computer Engineering	Modeling, Simulation and Optimization (EN)	
8	Networks and Electromagnetic Fields	Design	Analysis III VL 2	Fluid Mechanics VL 3	Computer Engineering VL 3	Modeling, Simulation and Optimization IV 4	
-	Electrical Engineering I: Direct Current VL 3	Fundamentals of Mechanical Engineering VL 2	Analysis III GŪ 1	Fluid Mechanics HÜ 2	Computer Engineering GŪ 1		
9	Networks and Electromagnetic Fields	Design	Analysis III HÜ 1				
10	Electrical Engineering I: Direct Current GÜ 2	Fundamentals of Mechanical Engineering HÜ 2	Differential Equations 1 VL 2				
	Networks and Electromagnetic Fields	Design	Differential Equations 1 GÜ 1				
11			Differential Equations 1 HÜ 1				
12							
13	Mathematics I	Technical Thermodynamics I		Mechanics IV (Oscillations, Analytical	Measurement Technology for Mechanical	Mathematics IV	
14	Linear Algebra I VL 2	Technical Thermodynamics I VL 2		Mechanics, Multibody Systems, Numerical	Engineers	Complex Functions VL 2	
	Linear Algebra I GÜ 1	Technical Thermodynamics I HÜ 1		Mechanics)	Measurement Technology for Mechanical VL 2	Complex Functions GŪ 1	
15	Linear Algebra I HÜ 1	Technical Thermodynamics I GŪ 1	Mechanics III (Dynamics)	Mechanics IV VL 3	Engineering	Complex Functions HÜ 1	
16	Analysis I VL 2		Mechanics III VL 3	Mechanics IV GÜ 2	Measurement Technology for Mechanical HÜ 1	Differential Equations 2 VL 2	
17	Analysis I GÜ 1		Mechanics III GŪ 2	Mechanics IV HÜ 1	Engineering Practical Course: Measurement and PR 2	Differential Equations 2 GÜ 1	
	Analysis I HÜ 1		Mechanics III HÜ 1		Control Systems	Differential Equations 2 HÜ 1	
18							
19		Mechanics II: Mechanics of Materials		Mechanical Engineering: Design (part 2)	Numerical Mathematics I	Production Engineering (part 2)	Bachelor Thesis
20		Mechanics II VL 2		Team Project Design Methodology PBL 2	Numerical Mathematics I VL 2	Production Engineering II VL 2	
21		Mechanics II GÜ 2	Markeylard Friday alway Dealaw (and 1)	Mechanical Design Project II PBL 3	Numerical Mathematics I GÜ 2	Production Engineering II HÜ 1	
	Mechanics I (Statics) Mechanics I VL 2	Mechanics II HÜ 2	Mechanical Engineering: Design (part 1) Embodiment Design and 3D-CAD VL 2				
22	Mechanics I GŪ 2		Mechanical Design Project I PBL 3	Fundamentals of Materials Science (part 2)			
23	Mechanics I HÜ 1		Mechanical Design Hojecci i De S	Fundamentals of Materials Science II VL 2			
24			Fundamentals of Materials Science (part 1)	Advanced Mechanical Engineering Design			
			Fundamentals of Materials Science (VL 2	(part 2)			
25		Mathematics II	Physical and Chemical Basics of Materials VL 2	Advanced Mechanical Engineering VL 2	Heat Transfer		
26		Linear Algebra II VL 2	Science	Design II	Heat Transfer VL 3		
		Linear Algebra II GÜ 1 Linear Algebra II HÜ 1		Advanced Mechanical Engineering HÜ 2	Heat Transfer HÜ 2		
		Analysis II VL 2		Design II			
27	Programming in C	Analysis II HÜ 1					
28	Programming in C VL 1	Analysis II GÜ 1	Advanced Mechanical Engineering Design				
	Programming in C PR 1		(part 1)				
29	Physics for Engineers (AIW)		Advanced Mechanical Engineering VL 2				
30	Physics for Engineers VL 2		Design I				
	Physics for Engineers GÜ 1		Advanced Mechanical Engineering HÜ 2				
			Design I	1			
31					Production Engineering (part 1)		
32					Production Engineering I VL 2		
33					Production Engineering I HÜ 1		
	New technical Course of the basis of					1	
	Non-technical Courses for Bachelors (from catalogue) - 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.