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

Sample course plan B Bachelor General Engineering Science (German program, 7 semester) (AIWBS(7)) Specialisation Mechanical Engineering, Focus Materials in Engineering Sciences

Legend:			
Core qualification Compulsory	Specialisation Compulsory	Focus Compulsory	Thesis Compulsory
Core qualification Elective Compulsory	Specialisation Elective Compulsory	Focus Elective Compulsory	Interdisciplinary complement

1						s/wSkemester 6 Formirs	/wskemester7 Forhhrs/
3 4 5 6	Chemistry Chemistry I+II VL 4 Chemistry I+II HÜ 2	Electrical Engineering II: Alternating Current Networks and Basic Devices Electrical Engineering VL II: Alternating Current Networks and Basic Devices Electrical Engineering UE II: Alternating Current Networks and Basic Devices Devices	Thermodynamics II Technical UE 1 Thermodynamics II	Signals and Systems OE 2	Control Systems	Foundations of Management Introduction to VL 3 Management Management Tutorial UE 2	Advanced Internship AIW/ GES
7 8 9 10 11 12	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields Electrical Engineering VL 3 I: Direct Current Networks and Electromagnetic Fields Electrical Engineering UE 2 I: Direct Current Networks and Electromagnetic Fields	Fundamentals of Mechanical Engineering Design Fundamentals of VL Mechanical Engineering Design Fundamentals of HÜ Mechanical Engineering Design	Analysis III HÜ 1 Differential Equations VL 2	Fluid Mechanics HÜ 2	Measurement Technology for Mechanical Engineers Measurement VL 2 Technology for Mechanical Engineering Measurement HÜ 1 Technology for Mechanical Engineering Practical Course: PR 2 Measurement and Control Systems	Advanced Materials Advanced Materials Characterization Advanced Materials Design Advanced Materials Advanced Materials Design HÜ 2 Design	
13 14 15 16 17 18	Mathematics I Linear Algebra I VL 2 Linear Algebra I UE 1 Linear Algebra I HÜ 1 Analysis I VL 2 Analysis I UE 1 Analysis I HÜ 1	Technical Thermodynamics I Technical Thermodynamics I Technical Thermodynamics I Technical Technical UE Thermodynamics I	Mechanics III VL 3 Mechanics III UE 2 Mechanics III UE 2	Mechanics IV VL 3	Numerical Mathematics I Numerical VL 2 Mathematics I Numerical UE 2 Mathematics I	Enhanced Fundamentals of Materials Science Enhanced VL 2 Fundamentals: Metals Enhanced VL 2 Fundamentals: Ceramics and Polymers Enhanced HÜ 1 Fundamentals: Ceramics and Polymers	
19 20 21	Mechanics I (Statics) Mechanics I VL 2	Mechanics II: Mechanics of Materials Mechanics II VL Mechanics II UE	7107011000	Advanced Mechanical Engineering Design (part 2) Advanced Mechanical VL 2	Computer Engineering Computer Engineering VL 3 Computer Engineering UE 1	Structural Materials (part 2) Fundamentals of VL 2 Mechanical Properties	Bachelor Thesis

			1)	Engineering Design II		(
	Mechanics I UE 2	Mechanics II HÜ 2				
	Mechanics I HÜ 1		Advanced Mechanical VL 2	Advanced Mechanical HÜ 2		
			Engineering Design I	Engineering Design II		
22			Advanced Mechanical HÜ 2			Γ
23			Engineering Design I	Mechanical Engineering: Design (part 2)		
24						
			Mechanical Engineering:	Team Project Design PBL2 Methodology		
			Design (part 1)	3,		
			Embodiment Design VL 2	Mechanical Design PBL3		
			and 3D-CAD	Project II		
25		Mathematics II	Mechanical Design PBL3	Fundamentals of	Structural Materials (part	
26			Project I	Materials Science (part 2)		
		Linear Algebra II VL 2			Welding Technology VL 3	
		Linear Algebra II UE 1		Materials Science II	Welding reciliology VL 3	
		Linear Algebra II HÜ 1		Proteriors Serence in		
27	Programming in C	Analysis II VL 2	Fundamentals of			
28	Programming in C VL 1	Analysis II HÜ 1	Materials Science (part 1)		Material Science	
		Analysis II UE 1	Fundamentals of VL 2		Laboratory	
	Programming in C PR 1	Analysis ii OE 1	Materials Science I		Companion Lecture VL 2	
29	Physics for Engineers		Physical and Chemical VL 2		for Materials Science	
30	(AIW)		Basics of Materials		Laboratory	
	Physics for Engineers VL 2		Science		Material Science PR 4	
31	· ·				Laboratory	
32	Physics for Engineers UE 1				,	
-						
33						
	Non-technical Courses for Back	helors (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.