Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w21)

Core qualification Compulsory

Sample	course plan B Bachelor Gener	al Engineering Science (Germai	n program, 7 semester) (AIW	VBS(7	7))		Core qualification Elective Compulsory			ective Compulso	ry Interdisciplinary complem	ient
ecial	isation₁Mechanical Engineering,	Focus₂Theoretical Mechanical.	Engineering FormHr.	Irs/wk	Semester 4 Form	mHrs/wk	Semester 5 Fo	rmHrs/wk	Semester 6	FormHrs/wk	Semester 7	FormHrs
	Chemistry VL 4 Chemistry I+II HÛ 2	Electrical Engineering II: Alternating Current Networks and Basic Devices Electrical Engineering II: Alternating VL 3 Current Networks and Basic Devices Electrical Engineering II: Alternating GÜ 2 Current Networks and Basic Devices	Technical Thermodynamics II GÛ	2		- 3) 2		/L 2 5Ū 2	Foundations of Management Introduction to Management Management Tutorial	VL 3 GÜ 2	Advanced Internship AIW/ ES Advanced Internship AIW/ ES: Preparation Advanced Intenship AIW/ ES: Internship- accompanying Seminar	SE · SE
6												
7 8 9 10 11	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields Electrical Engineering I: Direct Current VL 3 Networks and Electromagnetic Fields Electrical Engineering I: Direct Current GÜ 2 Networks and Electromagnetic Fields	Fundamentals of Mechanical Engineering Design Fundamentals of Mechanical Engineering VL 2 Design Fundamentals of Mechanical Engineering HÜ 2 Design	Mathematics III	2 1 1 2 1		- 3) 2	Measurement Technology for Mechanical Regineers Measurement Technology for Mechanical Regineering Measurement Technology for Mechanical Regineering Practical Course: Measurement and Regineering Control Systems	/L 2	Modeling, Simulation and Optimiz Modeling, Simulation and Optimization			
13 14 15 16 17	Mathematics Linear Algebra VL 2	Technical Thermodynamics I Technical Thermodynamics I VL 2 Technical Thermodynamics I HÜ 1 Technical Thermodynamics I GÜ 1	Mechanics III (Dynamics) Mechanics III	3 2	Mechanics IV GÜ	:al - 3) 2) 1		/L 2 5Û 2	Computer Science for Engineers - Programming Concepts, Data Han Communication Computer Science for Engineers - Programming Concepts, Data Handling Communication Computer Science for Engineers - Programming Concepts, Data Handling Communication	VL 3 j& GÜ 2		
19 20		Mechanics II: Mechanics of Materials Mechanics II VL 2 Mechanics II GÜ 2			Advanced Mechanical Engineering Design (part 2) Advanced Mechanical Engineering VL	jn _ 2		/L 3 IÜ 2	Electrical Machines and Actuators Electrical Machines and Actuators Electrical Machines and Actuators	VL 3 HÜ 2	Bachelor Thesis	
22 22 23 24	Mechanics I (Statics) Mechanics I VL 2 Mechanics I GÜ 2 Mechanics I HÜ 1	Mechanics II HÜ 2	Advanced Mechanical Engineering Design (part 1) Advanced Mechanical Engineering VL Design I Advanced Mechanical Engineering HÜ Design I Mechanical Engineering: Design (part 1)	2 .	Design II Advanced Mechanical Engineering HÜ Design II Mechanical Engineering: Design (part 2) Team Project Design Methodology PBL) 2						
25 26		Mathematics II VL 2 Linear Algebra II GÜ 1	Embodiment Design and 3D-CAD VL 2 Mechanical Design Project I PBL 3	2	Fundamentals of Materials Science (part Fundamentals of Materials Science II VL				Mathematics IV Complex Functions Complex Functions	VL 2 GÜ 1		
27 28 29 30	Computer Science for Engineers - Introduction and Overview Computer Science for Engineers - VL 3 Introduction and Overview Computer Science for Engineers - GÜ 2 Introduction and Overview	Linear Algebra II HÜ 1 Analysis II VL 2 Analysis II HÜ 1 Analysis II GÜ 1	Fundamentals of Materials Science (part 1) Fundamentals of Materials Science VL Physical and Chemical Basics of Materials VL Science	2					Complex Functions Complex Functions Differential Equations 2 Differential Equations 2 Differential Equations 2	HÜ 1 VL 2 GÜ 1 HÜ 1		
31 32	Non-technical Courses for Bachelors (fr	om catalogue) - 6l P										

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