Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w22)

e course plan B Bachelor Genera	ai Engineering Science (Germai	n program, 7 semester) (AIWBS	(/)) Duai	Core Qualification Compulsory Specialis	sation Compulsory Focus Compulsory	Thesis Compulsory
program	-			Core Qualification Elective Compulsory Specialis	sation Elective Compulsory Focus Elective Compulsor	ory Interdisciplinary complement
isation Mechanical Engineering,	Focus ₂ Mechatronics FormHrs/wk	Semester 3 FormHrs/wk	Semester 4 FormHrs/wk	Semester 5 FormHrs/wk	Semester 6 FormHrs/wk	Semester 7 FormHrs/
Chemistry VL 4 Chemistry I+II VL 4 Chemistry I+III HÜ 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	Signals and Systems Signals and Systems VL 3 Signals and Systems GÜ 2	Introduction to Control Systems Introduction to Control Systems VL 2 Introduction to Control Systems GÜ 2	Foundations of Management Introduction to Management VL 3 Management Tutorial GÜ 2	Advanced Internship AIW/ ES: SE 1 Preparation Advanced Intenship AIW/ ES: Internship- SE 1 accompanying Seminar
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	Practical module 4 (dual study program, Bachelor's degree) Practical term 4 0	Practical module 5 (dual study program, Bachelor's degree) Practical term 5 0	Electrical Machines and Actuators Electrical Machines and Actuators VL 3 Electrical Machines and Actuators HÜ 2	
Mathematics I VL 4 Mathematics I HÜ 2 Mathematics I GÜ 2	Technical Thermodynamics I	Practical module 3 (dual study program, Bachelor's degree) Practical term 3 0	Fluid Dynamics Fluid Mechanics VL 3 Fluid Mechanics HÜ 2	Measurement Technology for Mechanical Engineers Measurement Technology for Mechanical VL 2 Engineering Measurement Technology for Mechanical HÜ 1 Engineering Practical Course: Measurement and PR 2 Control Systems	Semiconductor Circuit Design Semiconductor Circuit Design VL 3 Semiconductor Circuit Design GÜ 1	
	Mathematics II		Computational Mechanics	Electrical Engineering III: Circuit Theory and	Mathematics IV	Bachelor thesis (dual study program)
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	Mathematics II HÜ 2 Mathematics II GÜ 2	Engineering Mechanics III (Dynamics) Engineering Mechanics III VL 3 Engineering Mechanics III GÜ 2 Engineering Mechanics III HÜ 1	Computational Mechanics GÜ 2 Computational Stuctural Mechanics IV 2 Advanced Mechanical Engineering Design (part 2)	Circuit Theory VL 3 Circuit Theory GÜ 2 Simulation and Design of Mechatronic Systems	Complex Functions GÜ 1 Complex Functions HÜ 1 Differential Equations 2 VL 2 Differential Equations 2 GÜ 1 Differential Equations 2 HÜ 1 Computer Science for Engineers - Programming Concepts, Data Handling &	
Practical module 1 (dual study program, Bachelor's degree) Practical term 1 0	Practical module 2 (dual study program, Bachelor's degree) Practical term 2 0	Advanced Mechanical Engineering Design (part 1) Advanced Mechanical Engineering VL 2 Design I Advanced Mechanical Engineering HÜ 2 Design I Mechanical Engineering: Design (part 1)	Advanced Mechanical Engineering VL 2 Design II Advanced Mechanical Engineering HÜ 2 Design II Mechanical Engineering: Design (part 2) Team Project Design Methodology PBL 2 Mechanical Design Project II PBL 3	Simulation and Design of Mechatronic VL 2 Systems Simulation and Design of Mechatronic HÜ 1 Systems Simulation and Design of Mechatronic PR 1 Systems	Computer Science for Engineers - VL 3 Programming Concepts, Data Handling & Communication Computer Science for Engineers - GÜ 2 Programming Concepts, Data Handling & Communication	
		Embodiment Design and 3D-CAD VL 2 Introduction and Practical Training Mechanical Design Project I PBL 3	Fundamentals of Materials Science (part 2) Fundamentals of Materials Science II VL 2			
Engineering Mechanics I (Stereostatics) Engineering Mechanics I VL 2 Engineering Mechanics I GÜ 2 Engineering Mechanics I HÜ 1	Engineering Mechanics II (Elastostatics) Engineering Mechanics II VL 2 Engineering Mechanics II GÜ 2 Engineering Mechanics II HÜ 2	Fundamentals of Materials Science (part 1) Fundamentals of Materials Science I VL 2 Physical and Chemical Basics of Materials VL 2 Science				
	Chemistry Chemistry Chemistry Hill VL 4 Chemistry Hill VL 4 Chemistry Hill HiÜ 2 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 Electrical Engineering I: Direct Current GÜ 2 Networks and Electromagnetic Fields Mathematics I VL 4 Mathematics I HÜ 2 Mathematics I HÜ 2 Mathematics I HÜ 2 Mathematics I Hill 2 Mathematics I GÜ 2 Practical module 1 (dual study program, Bachelor's degree) Practical term 1 0 Engineering Mechanics I (Stereostatics)	Section Mechanical Engineering Ecocus Electrical Engineering Ecocus Ecocus Ecocus Electrical Engineering Ecocus Ecocu		Chemistry Hill V. A Networks and Back Dovices Current Reviews and Back Dov	Station Mechanical Engineering Excitate Supplementing Excitate Supplementing Referentiate Correct Methods and State Devices Station Mechanical Engineering Referentiate Station Station Methods (Correct Methods and State Devices Station Methods (Correct Methods (Correct Methods and State Devices Station Methods (Correct Methods and State Devices Station Methods (Correct Methods (Corre	Section Part Section Section

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