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

	•		7		Core Qualification Compulsory Special Core Qualification Elective Compulsory Special	isation Compulsory Focus Compulsory isation Elective Compulsory Focus Elective Compulsory	Thesis Compulsory Interdisciplinary complement
	e course plan B Bachelor Gener isation Mechanical Engineering		n program, 7 semester) (AIWE	5(7))	Core Quanication Elective compulsory Special	In the comparison of the compa	
special	Isation Mechanical Engineering	Focus Energy Systems					
1 2 3 4 5	Chemistry I+II VL 4 Chemistry I+II 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 VL 2 Technical Thermodynamics II HŪ 1 Technical Thermodynamics II GŨ 1	Signals and Systems VL 3 Signals and Systems GŪ 2	Introduction to Control Systems VL 2 Introduction to Control Systems GŨ 2	Foundations of Management VL 3 Introduction to Management VL 3 Management Tutorial GŪ 2	VL 3 Advanced Internship AIW/ ES: SE 1
6							
7 8 9 10 11 12	Electrical Engineering I: Direct Current letworks and Electromagnetic Fields Electrical Engineering I: Direct Current VL 3 Electronagnetic Fields Electrical Engineering I: Direct Current GÜ 2 Letworks and Electromagnetic Fields	Design A Fundamentals of Mechanical Engineering VL 2 Design A Fundamentals of Mechanical Engineering HÜ 2 Design C	Mathematics III VL 2 Analysis III VL 2 Analysis III Hū 1 Differential Equations 1 VL 2 Differential Equations 1 GŪ 1 Differential Equations 1 GŪ 1	Fluid Dynamics Fluid Mechanics VL 3 Fluid Mechanics HÜ 2	Measurement Technology for Mechanical Engineers V 2 Beasurement Technology for Mechanical Engineering VL 2 Measurement Technology for Mechanical Engineering HU 1 Practical Course: Measurement and Control Systems PR 2	Electrical Machines and Actuators VL 3 Electrical Machines and Actuators VL 3 Electrical Machines and Actuators HÜ 2	
13 14 15	Mathematics I Linear Algebra I VL 2 Linear Algebra I GÜ 1 Linear Algebra I HÜ 1	Technical Thermodynamics I VL 2 Technical Thermodynamics I HÜ 1 Technical Thermodynamics I GÜ 1	Mechanics III (Dynamics)	Mechanics IV (Oscillations, Analytical Mechanics, Multibody Systems, Numerical Mechanics) Mechanics IV VL 3	Heat Transfer VL 3 Heat Transfer HÜ 2	Reciprocating Machinery (part 2) Internal Combustion Engines I VL 2 Internal Combustion Engines I HÜ 1	
16 17	Analysis I VL 2 Analysis I GÜ 1 Analysis I HÜ 1		Mechanics III VL 3 Mechanics III GÜ 2 Mechanics III HÜ 1	Mechanics IV GŪ 2 Mechanics IV HŪ 1		Renewables Energy Systems und Energy Economy	
18 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 2	Computer Engineering VL 3 Computer Engineering GÜ 1	Renewable Energy VL 2 Energy Systems and Energy Industry VL 2 Power Industry VL 1	Bachelor Thesis
21 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) VL 2 Advanced Mechanical Engineering VL 2 Design I HÜ 2 Design I HÜ 2 Mechanical Engineering: Design (part 1) HÜ 2	Design II Advanced Mechanical Engineering HÜ 2 Design II HÜ 2 Mechanical Engineering: Design (part 2) Team Project Design Methodology PBL 2 Mechanical Design Project II PBL 3	Computer Engineering GO 1	Renewable Energy GÜ 1	
25 26		Hathematics II Linear Algebra II VL 2 Linear Algebra II GÜ 1 Linear Algebra II HÜ 1 Analysis II VL 2 Analysis II HÜ 1 Analysis II GÜ 1	Embodiment Design and 3D-CAD VL 2 Mechanical Design Project I PBL 3	Fundamentals of Materials Science (part 2) Fundamentals of Materials Science II VL 2	Reciprocating Machinery (part 1) VL 1 Fundamentals of Reciprocating Engines VL 1 and Turbomachinery - Part Reciprocating Engines HÜ 1 and Turbomachinery - Part Reciprocating Engines HÜ 1		
27 28 29 30	Programming in C VL 1 Programming in C PR 1 Physics for Engineers (AIW) Physics for Engineers VL 2 Physics for Engineers GÜ 1		Fundamentals of Materials Science (part 1) Fundamentals of Materials Science I VL 2 Physical and Chemical Basics of Materials VL 2 Science		Numerical Mathematics I VL 2 Numerical Mathematics I GÛ 2		
31 32	U I						
	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.