Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w18)

	course plan B Bachelor Gener		an program, 7 semester) (AIWB	S(7))	Core Qualification Elective Compulsory Specialis	Focus Elective Compulsory Focus Elective Compuls	Interdisciplinary complement
pecial	isation Mechanical Engineering	FOCUS 2 Mechatronics FormHrs/	/k Semester 3 FormHrs/v	k Semester 4 FormHrs/wk	Semester 5 FormHrs/wk	Semester 6 FormHrs/wk	Semester 7 FormHrs/v
1 2 3 4 5 6	Chemistry VL 2 Chemistry II VL 2 Chemistry II HÜ 1 Chemistry II HÜ 1	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 Technical Thermodynamics II VL 2 Technical Thermodynamics II HÜ 1 Technical Thermodynamics II GÖ 1	Mechanical Engineering: Design (part 2) Team Project Design Methodology PBL 2 Mechanical Design Project II PBL 3 Fundamentals of Materials Science (part 2) Fundamentals of Materials Science II VL 2 Advanced Mechanical Engineering Design	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 Advanced Internship AIW/ ES: SE 1 Preparation Advanced Intenship AIW/ ES: Internship- SE 1 accompanying Seminar
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 Analysis III VL 2 Analysis III HÜ 1 Analysis III HÜ 1 Differential Equations 1 VL 2 Differential Equations 1 GÜ 1 Differential Equations 1 HÜ 1	(part 2) Advanced Mechanical Engineering VL 2 Design II Advanced Mechanical Engineering HÜ 2 Design II Fluid Dynamics Fluid Mechanics VL 3 Fluid Mechanics HÜ 2	Computer Engineering VL 3 Computer Engineering GÜ 1	Semiconductor Circuit Design Semiconductor Circuit Design VL 3 Semiconductor Circuit Design GÜ 1	
13 14 15 16 17	Mathematics	Technical Thermodynamics I	Mechanics III (Hydrostatics, Kinematics, Kinetics I) Mechanics III VL 3 Mechanics III GÜ 2 Mechanics III HÜ 1	Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems) Mechanics IV VL 3 Mechanics IV GÜ 2 Mechanics IV HÜ 1	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	Mathematics IV Complex Functions VL 2 Complex Functions GÜ 1 Complex Functions HÜ 1 Differential Equations 2 VL 2 Differential Equations 2 GÜ 1 Differential Equations 2 HÜ 1	
19 20		Mechanics II: Mechanics of Materials Mechanics II VL 2 Mechanics II GÜ 2			Electrical Engineering III: Circuit Theory and Transients Circuit Theory VL 3	Fundamentals of Production and Quality Management Production Process Organization VL 2	Bachelor Thesis
21 22 23 24 25	Mechanics I (Statics) VL 2 Mechanics I GÜ 2 Mechanics I HÜ 1	Mechanics II HO 2	Mechanical Engineering: Design (part 1) Embodiment Design and 3D-CAD VL 2 Mechanical Design Project I PBL 3 Fundamentals of Materials Science (part 1) Fundamentals of Materials Science I VL 2	Signals and Systems VL 3 Signals and Systems GÜ 2	Circuit Theory GÜ 2	Quality Management VL 2	
26 27 28	Programming in C Programming in C VL 1	Linear Algebra II VL 2 Linear Algebra II GÜ 1 Linear Algebra II HÜ 1 Analysis II VL 2	Physical and Chemical Basics of Materials VL 2 Science Advanced Mechanical Engineering Design		Systems Simulation and Design of Mechatronic VL 2 Systems Simulation and Design of Mechatronic HÜ 1		
29 30	Programming in C PR 1 Physics for Engineers (AIW) Physics for Engineers VL 2 Physics for Engineers GÜ 1	Analysis II H0 1 Analysis II G0 1	(part 1) Advanced Mechanical Engineering VL 2 Design I Advanced Mechanical Engineering HÜ 2 Design I		Systems Simulation and Design of Mechatronic PR 1 Systems		
31 32		for Bachelors (from catalogue) - 61 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.