Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w19)

imple course plan A Bachelor Gene		n program, 7 semester) (AIWBS	5(7))	Core Qualification Elective Compulsory Specialis	sation Elective Compulsory Focus Elective Compuls	ory Interdisciplinary complement
ecialisation Mechanical Engineerin	g, Focus Mechatronics					
Chemistry VL 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 Technical Thermodynamics II VL 2 Technical Thermodynamics II HÜ 1 Technical Thermodynamics II GÜ 1	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 Preparation Advanced Intenship AIW/ ES: Internship- SE accompanying Seminar
Electrical Engineering I: Direct Current Networks and Electromagnetic Fields Electrical Engineering I: Direct Current VL 3 Networks and Electromagnetic Fields	Fundamentals of Mechanical Engineering Design Fundamentals of Mechanical Engineering VL 2 Design	Mathematics III Analysis III VL 2 Analysis III GÜ 1 Analysis III HÜ 1	Fluid Dynamics VL 3 Fluid Mechanics HÜ 2	Computer Engineering Computer Engineering VL 3 Computer Engineering GÜ 1	Electrical Machines and Actuators Electrical Machines and Actuators VL 3 Electrical Machines and Actuators HÜ 2	
0 Electrical Engineering I: Direct Current GÜ 2 Networks and Electromagnetic Fields 1	Fundamentals of Mechanical Engineering HÜ 2 Design	Differential Equations 1 VL 2 Differential Equations 1 GÜ 1 Differential Equations 1 HÜ 1				
3 Mathematics I 4 Linear Algebra I VL 2 Linear Algebra I GÜ 1 5 Linear Algebra I HÜ 1 6 Analysis I VL 2 7 Analysis I GÜ 1 Analysis I HÜ 1	Technical Thermodynamics I Technical Thermodynamics I VL 2 Technical Thermodynamics I HÜ 1 Technical Thermodynamics I GÜ 1	Mechanics III (Dynamics) Mechanics III VL 3 Mechanics III GÜ 2 Mechanics III HÜ 1	Mechanics IV (Oscillations, Analytical Mechanics, Multibody Systems, Numerical Mechanics) 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	Semiconductor Circuit Design Semiconductor Circuit Design VL 3 Semiconductor Circuit Design GÜ 1	
9	Mechanics II: Mechanics of Materials Mechanics II VL 2 Mechanics II GÜ 2 Mechanics II HÜ 2	Mechanical Engineering: Design (part 1) Embodiment Design and 3D-CAD VL 2 Mechanical Design Project I PBL 3	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	Electrical Engineering III: Circuit Theory and Transients Circuit Theory VL 3 Circuit Theory GÜ 2	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	Bachelor Thesis
4 5 6	Mathematics I	Fundamentals of Materials Science (part 1) Fundamentals of Materials Science I VL 2 Physical and Chemical Basics of Materials VL 2 Science	Advanced Mechanical Engineering Design (part 2) Advanced Mechanical Engineering VL 2 Design II Advanced Mechanical Engineering HÜ 2 Design II	Numerical Mathematics I Numerical Mathematics I Numerical Mathematics I GÜ 2		
7 Programming in C 8 Programming in C VL 1 Programming in C PR 1 9 Physics for Engineers (AIW)	Analysis II VL 2 Analysis II HÜ 1 Analysis II GÜ 1	Advanced Mechanical Engineering Design (part 1) Advanced Mechanical Engineering VL 2				
O Physics for Engineers (AIW) Physics for Engineers VL 2 Physics for Engineers GÜ 1		Advanced Mechanical Engineering VL 2 Design I Design 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.