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

_					Core Qualification Compulsory Specialis	isation Compulsory Focus Compulsory	Thesis Compulsory
Sample	e course plan B Bachelor Gener	al Engineering Science (Germa	n program, 7 semester) (AIWBS	5(7))	Core Qualification Elective Compulsory Speciali	isation Elective Compulsory Focus Elective Compuls	ory Interdisciplinary complement
Specia	lisation Mechanical Engineering	, Focus Theoretical Mechanical	Engineering				
1	Chemistry VL 2 Chemistry I VL 2 Chemistry II VL 2	Electrical Engineering II: Alternating Current Networks and Basic Devices Electrical Engineering II: Alternating VL 3	Technical Thermodynamics II Technical Thermodynamics II VL 2 Technical Thermodynamics II HÜ 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 Advanced Internship AIW/ ES: SE 1 Preparation
3 4 5 6	Chemistry II VL 2 Chemistry I HÜ 1 Chemistry II HÜ 1	Current Networks and Basic Devices GÖ 2 Current Networks and Basic Devices	Technical Thermodynamics II HÜ 1 Technical Thermodynamics II GÜ 1	signais and systems GU 2	Introduction to Control Systems GÜ 2	Management Tutorial GÜ 2	Advanced Intenship AIW/ ES: Internship- SE 1 accompanying Seminar
7 8	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields Electrical Engineering I: Direct Current VL 3	Fundamentals of Mechanical Engineering Design	Mathematics III Analysis III VL 2	Fluid Dynamics Fluid Mechanics VL 3	Computer Engineering Computer Engineering VL 3	Modeling, Simulation and Optimization (EN) Modeling, Simulation and Optimization IV 4	
9 10	Networks and Electromagnetic Fields Electrical Engineering I: Direct Current GÜ 2	Fundamentals of Mechanical Engineering VL 2 Design Fundamentals of Mechanical Engineering HÜ 2	Analysis III GÜ 1 Analysis III HÜ 1 Differential Equations 1 VL 2	Fluid Mechanics HÜ 2	Computer Engineering GÜ 1		
11 12	Networks and Electromagnetic Fields	Design	Differential Equations 1 GÜ 1 Differential Equations 1 HÜ 1				
13 14 15 16 17 18	Mathematics i Linear Algebra I VL 2 Linear Algebra I GŪ 1 Linear Algebra I HŪ 1 Analysis I VL 2 Analysis I GŪ 1 Analysis I GŪ 1	Technical Thermodynamics I VL 2 Technical Thermodynamics I H0 1 Technical Thermodynamics I G0 1	Mechanics III (Dynamics) Mechanics III VL 3 Mechanics III GŪ 2 Mechanics III HŪ 1	Mechanics IV (Oscillations, Analytical Mechanics, Multibody Systems, Numerical Mechanics IV VL 3 Mechanics IV GÜ 2 Mechanics IV HÜ 1	Measurement Technology for Mechanical Engineers Z Measurement Technology for Mechanical VL 2 Engineering 2 2 Measurement Technology for Mechanical HÜ 1 Engineering 2 2 Practical Course: Measurement and Control Systems PR 2	Electrical Machines and Actuators VL 3 Electrical Machines and Actuators VL 3 Electrical Machines and Actuators HŪ 2	
19 20		Mechanics II: Mechanics of Materials Mechanics II VL 2 Mechanics II GÜ 2		Mechanical Engineering: Design (part 2) Team Project Design Methodology PBL 2 Mechanical Design Project II PBL 3	Numerical Mathematics I VL 2 Numerical Mathematics I GÜ 2	Mathematics IV Complex Functions VL 2 Complex Functions GÜ 1	Bachelor Thesis
21 22 23	Mechanics I (Statics) Mechanics I VL 2 Mechanics I GÜ 2 Mechanics I HÜ 1	Mechanics II GU 2 Mechanics II HÜ 2	Mechanical Engineering: Design (part 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	Numerical Mathematics 1 Gu 2	Complex Functions GU 1 Complex Functions HÜ 1 Differential Equations 2 VL 2 Differential Equations 2 GÜ 1 Differential Equations 2 GÜ 1	
24 25 26		Mathematics II Linear Algebra II VL 2 Linear Algebra II GÜ 1 Linear Algebra II HÜ 1	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	Heat Transfer VL 3 Heat Transfer HÜ 2		
27 28	Programming in C Programming in C VL 1 Programming in C PR 1	Analysis II VL 2 Analysis II HÜ 1 Analysis II GÜ 1	Advanced Mechanical Engineering Design				
29 30	Physics for Engineers (AIW) Physics for Engineers VL 2 Physics for Engineers GÜ 1		(part 1) Advanced Mechanical Engineering VL 2 Design I Advanced Mechanical Engineering HÜ 2 Design I				
31 32	Non-technical Courses for Bachelors (fr	om 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.