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

					Core Qualification Compulsory Specialis	sation Compulsory Focus Compulsory	Thesis Compulsory
Sample	e course plan - Bachelor Genera	al Engineering Science (Germar	n program, 7 semester) (AIWBS	(7))	Core Qualification Elective Compulsory Specialis	sation Elective Compulsory Focus Elective Compuls	ory Interdisciplinary complement
Special	lisation Mechanical Engineering	, Focus Biomechanics					
1 2 3 4 5 6	Chemistry I 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 Zurrent Networks and Basic Devices Electrical Engineering II: Alternating GÜ Current Networks and Basic Devices	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 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	Electrical Engineering I: Direct Current	Fundamentals of Mechanical Engineering	Mathematics III	Fluid Dynamics	Computer Engineering	Advanced Materials	
8 9 10 11 12	Networks and Electromagnetic Fields Electrical Engineering I: Direct Current VL 3 Networks and Electromagnetic Fields 3 Electrical Engineering I: Direct Current GŪ 2 Networks and Electromagnetic Fields 3 3	Design 2 Fundamentals of Mechanical Engineering VL 2 Design 4 2 Fundamentals of Mechanical Engineering HÚ 2 Design 4 4	Analysis III VL 2 Analysis III GÜ 1 Analysis III HÜ 1 Differential Equations 1 VL 2 Differential Equations 1 GÜ 1 Differential Equations 1 GÜ 1	Fluid Mechanics VL 3 Fluid Mechanics HÜ 2	Computer Engineering VL 3 Computer Engineering GÜ 1	Advanced Materials Characterization VL 2 Advanced Materials Design VL 2 Advanced Materials Design HÜ 2	
13	Mathematics I	Technical Thermodynamics I		Mechanics IV (Oscillations, Analytical	Measurement Technology for Mechanical	MED II: Introduction to Physiology	
14 15 16 17 18	Linear Algebra I VL 2 Linear Algebra I GÜ 1 Linear Algebra I HÜ 1 Analysis I VL 2 Analysis I GÜ 1 Analysis I GÜ 1 Analysis I HÜ 1	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, Multibody Systems, Numerical Mechanics IV VL Mechanics IV GÜ Mechanics IV HÜ	Engineers Measurement Technology for Mechanical VL 2 Engineering Practical Course: Measurement and PR 2 Control Systems	Introduction to Physiology VL 2 BIO 1: Experimental Methods in Biomechanics Experimental Methods in Biomechanics VL 2	
19 20 21		Wechanics II: Mechanics of Materials VL 2 Mechanics II VL 2 Mechanics II GÜ 2		MED I: Introduction to Anatomy Introduction to Anatomy VL 2	Numerical Mathematics I VL 2 Numerical Mathematics I GŨ 2		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	Mechanical Engineering: Design (part 1) Ernbodiment Design and 3D-CAD VL 2 Mechanical Design Project I PBL 3 Fundamentals of Materials Science (part 1)	MED I: Introduction to Radiology and Radiation Therapy Introduction to Radiology and Radiation VL 2 Therapy			
25 26		Wathematics II VL 2 Linear Algebra II GÜ 1	Fundamentals of Materials Science I VL 2 Physical and Chemical Basics of Materials VL 2 Science	Mechanical Engineering: Design (part 2) Team Project Design Methodology PBL 2 Mechanical Design Project II PBL 3	MED II: Introduction to Biochemistry and Molecular Biology Introduction to Biochemistry and VL 2		
27	Programming in C	Linear Algebra II HÜ 1			Molecular Biology		
28 29	Programming in C VL 1 Programming in C PR 1 Physics for Engineers (AIW)	Analysis II VL 2 Analysis II HÜ 1 Analysis II GŨ 1	Advanced Mechanical Engineering Design (part 1) Advanced Mechanical Engineering VL 2	Fundamentals of Materials Science (part 2) Fundamentals of Materials Science II VL 2	BIO I: Implants and Fracture Healing VL 2		
30	Physics for Engineers VL 2 Physics for Engineers GÜ 1		Design 1 Advanced Mechanical Engineering HÜ 2 Design 1	Advanced Mechanical Engineering Design (part 2) Advanced Mechanical Engineering VL 2			
31 32				Design II Advanced Mechanical Engineering HÜ 2 Design II			
	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.