Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w17)

Core Qualification Compulsory

	course plan - Bachelor Genera			Core Qualification Elective Compulsory Specialisation Elective Compulsory Focus Elective Compulsory Interdisciplinary complement			
pecial	is <u>atio</u> n Mechanical Engineering	FormHrs/wk	Semester 3 FormHrs/wk	Semester 4 FormHrs/wk	Semester 5 FormHrs/wk	Semester 6 FormHrs/wk	Semester 7 FormHrs/w
1 2 3 4 5 6	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	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 (part 2)	Computer Engineering VL 3 Computer Engineering GÜ 1 Introduction to Control Systems	Foundations of Management Introduction to Management VL 3 Management Tutorial HÜ 2 MED II: Introduction to Physiology	Advanced Internship AIW/ GES
9 10 11	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	Pesign Fundamentals of Mechanical Engineering VL 2 Design Fundamentals of Mechanical Engineering HÜ 2 Design	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 HÜ 1	Advanced Mechanical Engineering VL 2 Design II HÛ 2 Advanced Mechanical Engineering HÛ 2 Design II Fluid Dynamics VL 3 Fluid Mechanics VL 3 Fluid Mechanics HÛ 2	Introduction to Control Systems VL 2 Introduction to Control Systems GÜ 2	Introduction to Physiology VL 2 BIO I: Experimental Methods in Biomechanics Experimental Methods in Biomechanics VL 2	
12 13 14 15 16 17 18	Mathematics I VL 2 Linear Algebra I GÜ 1 Linear Algebra I HÜ 1 Analysis I VL 2 Analysis I GÜ 1 Analysis I HÜ 1	Technical Thermodynamics I	Mechanics III (Hydrostatics, Kinematics, Kinetics I) Mechanics III Mechanics III	Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems) Mechanics IV GÜ 2 Mechanics IV HÜ 1	Measurement Technology for Mechanical and Process Engineers Measurement Technology for Mechanical VL 2 and Process Engineers Measurement Technology for Mechanical HÜ 1 and Process Engineers Practical Course: Measurement and PR 2 Control Systems		
19 20 21 22 23 24	Mechanics I (Statics) Mechanics I VL 2 Mechanics I GÜ 2 Mechanics I HÜ 1	Mechanics II: Mechanics of Materials VL 2 Mechanics II GÜ 2 Mechanics II HÜ 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 1)	Signals and Systems Signals and Systems VL 3 Signals and Systems GÜ 2	Numerical Mathematics I VL 2 Numerical Mathematics I GÜ 2		Bachelor Thesis
25 26 27	Programming in C Programming in C VL 1	Mathematics I	Fundamentals of Materials Science I VL 2 Physical and Chemical Basics of Materials VL 2 Science	MED I: Introduction to Anatomy Introduction to Anatomy VL 2	MED II: Introduction to Biochemistry and Molecular Biology Introduction to Biochemistry and VL 2 Molecular Biology		
29 30 31	Programming in C PR 1 Physics for Engineers (AIW) Physics for Engineers VL 2 Physics for Engineers GÜ 1	Analysis II VL 2 Analysis II HÜ 1 Analysis II GÜ 1	Advanced Mechanical Engineering Design (part 1) Advanced Mechanical Engineering VL 2 Design I Advanced Mechanical Engineering HÜ 2 Design I	MED I: Introduction to Radiology and Radiation Therapy Introduction to Radiology and Radiation VL 2	BIO I: Implants and Fracture Healing Implants and Fracture Healing VL 2		
32	Nontechnical Complementary Courses	for Bachelors (from catalogue) - 6LP		Therapy			

The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.