Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w21)

ample	course plan - Bachelor Genera	al Engineering Science (Germar	Core Qualification Elective Compulsory Specialisation Elective Compulsory Focus Elective Compulsory Interest Compulsory Interdisciplinary complement				
ecialis	sation Mechanical Engineering	Focus Biomechanics					
	Chemistry Chemistry I+II VL 4 Chemistry I+II HÜ 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 Advanced Internship AIW/ ES: SE Preparation Advanced Intenship AIW/ ES: Internship- SE accompanying Seminar
0	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	Fluid Dynamics Fluid Mechanics VL 3 Fluid Mechanics HÜ 2	Measurement Technology for Mechanical Engineers Measurement Technology for Mechanical VL 2 Engineering Measurement Technology for Mechanical PR 2 Engineering Practical Course: Measurement and PR 2 Control Systems	Advanced Materials for Sustainability Advanced Materials Characterization VL 2 Advanced Materials for Sustainability VL 2 Advanced Materials for Sustainability HÜ 2	
4 5 6	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 Analysis I HÜ 1	Technical Thermodynamics I	Engineering Mechanics III (Dynamics) Engineering Mechanics III VL 3 Engineering Mechanics III GÜ 2 Engineering Mechanics III HÜ 1	Computational Mechanics IV 2 Computational Multibody Dynamics IV 2 Computational Mechanics GÜ 2 Computational Stuctural Mechanics IV 2	Numerical Mathematics I VL 2 Numerical Mathematics I GÜ 2	MED II: Introduction to Physiology Introduction to Physiology VL 2 BIO I: Experimental Methods in Biomechanics Experimental Methods in Biomechanics VL 2	
9 0 1	Mechanics I (Statics)	Mechanics II: Mechanics of Materials Mechanics II VL 2 Mechanics II GÜ 2 Mechanics II HÜ 2	Advanced Mechanical Engineering Design	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	Computer Science for Engineers - Programming Concepts, Data Handling & Communication Computer Science for Engineers - VL 3	Bachelor Thesis
2	Mechanics I VL 2 Mechanics I GÜ 2 Mechanics I HÜ 1		(part 1) Advanced Mechanical Engineering VL 2 Design 1 Advanced Mechanical Engineering HÜ 2 Design 1 Mechanical Engineering: Design (part 1)	MED I: Introduction to Radiology and Radiation Therapy Introduction to Radiology and Radiation VL 2 Therapy	BIO I: Implants and Fracture Healing Implants and Fracture Healing VL 2	Programming Concepts, Data Handling & Communication Computer Science for Engineers - GÜ 2 Programming Concepts, Data Handling & Communication	
25		Mathematics II	Embodiment Design and 3D-CAD VL 2	Advanced Mechanical Engineering Design			
6		Linear Algebra	Introduction and Practical Training Mechanical Design Project I PBL 3	(part 2) Advanced Mechanical Engineering VL 2			
8	Computer Science for Engineers - Introduction and Overview Computer Science for Engineers - VL 3 Introduction and Overview	Linear Algebra II HÜ 1 Analysis II VL 2 Analysis II HÜ 1 Analysis II GÜ 1	Fundamentals of Materials Science (part 1) Fundamentals of Materials Science I VL 2 Physical and Chemical Basics of Materials VL 2 Science	Design II Advanced Mechanical Engineering HÜ 2 Design II Mechanical Engineering: Design (part 2)			
	Computer Science for Engineers - GÜ 2 Introduction and Overview			Team Project Design Methodology PBL 2 Mechanical Design Project II PBL 3 Fundamentals of Materials Science (part 2)			
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The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.