Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w22)

mple	course plan A Bachelor Gener	al Engineering Science (Germa	n program, 7 semester) (AIWB	S(7)) Dual		isation Compulsory Focus Compulsory	Thesis Compulsory
, ,	rogram				Core Qualification Elective Compulsory Special	isation Elective Compulsory Focus Elective Comp	ulsory Interdisciplinary complement
cial	isation Mechanical Engineering	Focus Theoretical Mechanical	Engineering				
	Chemistry VL 4 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	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
	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 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	Practical module 4 (dual study program, Bachelor's degree) Practical term 4 0	Practical module 5 (dual study program, Bachelor's degree) Practical term 5 0	Modeling, Simulation and Optimization (EN) Modeling, Simulation and Optimization IV 4	
	Mathematics I	Technical Thermodynamics I		Fluid Dynamics	Measurement Technology for Mechanical	Production Engineering	
	Mathematics I VL 4 Mathematics I HÜ 2 Mathematics I GÜ 2	Technical Thermodynamics I VL 2 Technical Thermodynamics I VL 1 Technical Thermodynamics I HÜ 1 Technical Thermodynamics I GÜ 1	Practical module 3 (dual study program, Bachelor's degree) Practical term 3 0	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	Production Engineering I VL 2 Production Engineering II VL 2 Production Engineering II VL 2 Production Engineering II HÜ 1 Production Engineering I HÜ 1	
		Mathematics II VL 4 Mathematics II HÜ 2		Computational Mechanics Computational Multibody Dynamics IV 2 Computational Mechanics GÜ 2	Numerical Mathematics	Mathematics IV Complex Functions VL 2 Complex Functions GÜ 1	Bachelor thesis (dual study program)
2 3	Computer Science for Engineers - Introduction and Overview Computer Science for Engineers - VL 3 Introduction and Overview Computer Science for Engineers - GÜ 2 Introduction and Overview	Mathematics II GÜ 2	Engineering Mechanics III (Dynamics) Engineering Mechanics III VL 3 Engineering Mechanics III GÜ 2 Engineering Mechanics III HÜ 1	Computational Stuctural Mechanics IV 2	numental Augustians Survey	Complex Functions	
	introduction and overview			Advanced Mechanical Engineering Design	Heat Transfer	Machine Learning I	
	Practical module 1 (dual study program, Bachelor's degree) Practical term 1 0	Practical module 2 (dual study program, Bachelor's degree) Practical term 2 0	Advanced Mechanical Engineering Design (part 1) Advanced Mechanical Engineering VL 2 Design 1	(part 2) Advanced Mechanical Engineering VL 2 Design II Advanced Mechanical Engineering HÜ 2 Design II	Heat Transfer VL 3 Heat Transfer HÜ 2	Machine Learning I VL 2 Machine Learning I GÜ 3	
			Design I Advanced Mechanical Engineering HÜ 2 Design I	Mechanical Engineering: Design (part 2) Team Project Design Methodology PBL 2 Mechanical Design Project II PBL 3			
_			Mechanical Engineering: Design (part 1) Embodiment Design and 3D-CAD VL 2				
			Introduction and Practical Training Mechanical Design Project I PBL 3				
	Engineering Mechanics I (Stereostatics) Engineering Mechanics I VL 2 Engineering Mechanics I GÜ 2 Engineering Mechanics I HÜ 1	Engineering Mechanics II (Elastostatics) Engineering Mechanics II VL 2 Engineering Mechanics II GÜ 2 Engineering Mechanics II HÜ 2	Fundamentals of Materials Science Fundamentals of Materials Science II VL 2 Fundamentals of Materials Science I VL 2 Physical and Chemical Basics of Materials VL 2 Science				
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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.