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

ecialis	ation Mechanical Engineering	Focus Mechatronics					
CI	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: Preparation Advanced Intenship AIW/ ES: Internship- accompanying Seminar
i							
N EI	Ilectrical Engineering I: Direct Current Idetworks and Electromagnetic Fields	Fundamentals of Mechanical Engineering VL 2 Design VL 3 Design VL	Mathematics III Analysis III GÜ 1 Analysis III HÜ 1 Differential Equations 1 VL 2 Differential Equations 1 GÜ 1 Differential Equations 1 HÜ 1	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	Electrical Machines and Actuators VL 3 Electrical Machines and Actuators HÜ 2	
3 м	fathematics I	Technical Thermodynamics I		Computational Mechanics	Electrical Engineering III: Circuit Theory and	Semiconductor Circuit Design	
.5 Li	inear Algebra I VL 2 inear Algebra I GÜ 1 inear Algebra I HÜ 1 inear Algebra I HÜ 1 inalysis I VL 2 inalysis I GÜ 1 inalysis I HÜ 1	Technical Thermodynamics I VL 2 Technical Thermodynamics I HÜ 1 Technical Thermodynamics I GÜ 1	Engineering Mechanics III (Dynamics) Engineering Mechanics III VL 3 Engineering Mechanics III G0 2 Engineering Mechanics III H0 1	Computational Multibody Dynamics IV 2 Computational Mechanics GÜ 2 Computational Stuctural Mechanics IV 2	Transients Circuit Theory VL 3 Circuit Theory GÜ 2	Semiconductor Circuit Design VL 3 Semiconductor Circuit Design GÜ 1	
9		Mechanics II: Mechanics of Materials Mechanics II		Advanced Mechanical Engineering Design (part 2) Advanced Mechanical Engineering VL 2	Numerical Mathematics I Numerical Mathematics I VL 2	Mathematics IV Complex Functions VL 2	Bachelor Thesis
M M	Mechanics I (Statics) VL 2 dechanics I GÜ 2 dechanics I HÜ 1	Mechanics II GÜ 2 Mechanics II HÜ 2	Advanced Mechanical Engineering Design (part 1) Advanced Mechanical Engineering VL 2 Design I Mechanical Engineering HÜ 2 Design I Mechanical Engineering: Design (part 1)	Design II Advanced Mechanical Engineering HÜ 2 Design II Mechanical Engineering: Design (part 2) Team Project Design Methodology PBL 2 Mechanical Design Project II PBL 3	Numerical Mathematics I GÜ 2	Complex Functions GÜ 1 Complex Functions HÜ 1 Differential Equations 2 VL 2 Differential Equations 2 GÜ 1 Differential Equations 2 HÜ 1	
5 6		Mathematics II VL 2 Linear Algebra II GÜ 1	Embodiment Design and 3D-CAD VL 2 Introduction and Practical Training Mechanical Design Project I PBL 3	Fundamentals of Materials Science (part 2) Fundamentals of Materials Science II VL 2		Computer Science for Engineers - Programming Concepts, Data Handling & Communication	
8 Ca 9 In	computer Science for Engineers - ntroduction and Overview computer Science for Engineers - VL 3 ntroduction and Overview Cimputer Science for Engineers - GÜ 2 ntroduction 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		_	Computer Science for Engineers - VL 3 Programming Concepts, Data Handling & Communication Computer Science for Engineers - GÜ 2 Programming Concepts, Data Handling & Communication	

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