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

pecia	lisation Mechanical Engineering	, Focus Aircraft Systems Engine	ering				
	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: SE Preparation Advanced Intenship AIW/ ES: Internship- SE accompanying Seminar
7							
0 1 2	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	Digital Product Development and Lightweight Design Digital Product Development VL 2 Development of Lightweight Design VL 2 Products CAE-Team Project PBL 2	
3	Mathematics I	Technical Thermodynamics I		Computational Mechanics	Advanced Mechanical Design Project	Aeronautical Systems	
.4 .5 .6 .7	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         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 GÜ 2 Engineering Mechanics III HÜ 1	Computational Multibody Dynamics IV 2 Computational Mechanics GÜ 2 Computational Stuctural Mechanics IV 2	Advanced Mechanical Design Project PBL 4	Air Transportation Systems VL 2 Fundamentals of Aircraft Systems VL 2 Fundamentals of Aircraft Systems GÜ 1 Air Transportation Systems HÜ 1	
9 0		Mechanics II: Mechanics of Materials           Mechanics II         VL 2           Mechanics II         GÜ 2		Advanced Mechanical Engineering Design (part 2) Advanced Mechanical Engineering VL 2	Numerical Mathematics I         VL         2           Numerical Mathematics I         GÜ         2	Fundamentals of Production and Quality  Management  Production Process Organization VL 2	Bachelor Thesis
22 23 24	Mechanics I (Statics)           Mechanics I         VL         2           Mechanics I         GÜ         2           Mechanics 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 GU 2	Quality Management VL 2	
5 6		Mathematics II Linear Algebra II 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	
7 8 9 0	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	Linear Algebra II HÜ 1 Analysis II VL 2 Analysis II HÜ 1 Analysis II GÜ 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.