Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w18)

	,	-				sation Compulsory Focus Compulsory	Thesis Compulsory
	e course plan A Bachelor Gener			5(7))	Core Qualification Elective Compulsory Specialis	sation Elective Compulsory Focus Elective Compuls	Interdisciplinary complement
pecia	lisation Mechanical Engineering	Focus 2 Aircraft Systems Engine	eringter 3 FormHrs/wk	Semester 4 FormHrs/w	k Semester 5 FormHrs/wk	Semester 6 FormHrs/wk	Semester 7 FormHrs/
1 2 3 4 5 6	Chemistry VL 2 Chemistry II VL 2 Chemistry II HÜ 1 Chemistry II HÜ 1 Chemistry II HÜ 1	Electrical Engineering II: Alternating Current Networks and Basic Devices Electrical Engineering II: Alternating VL 3 Current Networks and Basic Devices Electrical Engineering II: Alternating GŪ 2 Current Networks and Basic Devices	Technical Thermodynamics II VL 2 Technical Thermodynamics II HÜ 1 Technical Thermodynamics II GÜ 1	Hechanical 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 VL 2	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 1 Preparation Advanced Internship AIW/ ES: Internship- SE 1 accompanying Seminar
7				(part 2)			
8	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	Fundamentals of Mechanical Engineering V 2 Design 2 2 2 2 2 2 3 <td>Mathematics III VL 2 Analysis III VL 2 Analysis III GÜ 1 Analysis III HÜ 1 Differential Equations 1 VL 2</td> <td>Advanced Mechanical Engineering VL 2 Design II Advanced Mechanical Engineering HŪ 2 Design II</td> <td>Computer Engineering VL 3 Computer Engineering GÜ 1</td> <td>Integrated Product Development and Lightweight Design VL 2 Integrated Product Development I VL 2 Development of Lightweight Design VL 2</td> <td></td>	Mathematics III VL 2 Analysis III VL 2 Analysis III GÜ 1 Analysis III HÜ 1 Differential Equations 1 VL 2	Advanced Mechanical Engineering VL 2 Design II Advanced Mechanical Engineering HŪ 2 Design II	Computer Engineering VL 3 Computer Engineering GÜ 1	Integrated Product Development and Lightweight Design VL 2 Integrated Product Development I VL 2 Development of Lightweight Design VL 2	
9 10 11	Networks and Electromagnetic Fields	Design	Differential Equations 1 GÜ 1 Differential Equations 1 HÜ 1	Fluid Dynamics VL 3 Fluid Mechanics HÜ 2		CAE-Team Project PBL 2	
12							
13 14	Mathematics I Linear Algebra I VL 2 Linear Algebra I GŪ 1	Technical Thermodynamics I Technical Thermodynamics I VL 2 Technical Thermodynamics I HÜ 1			Measurement Technology for Mechanical Engineers Measurement Technology for Mechanical VL 2	Aeronautical Systems Air Transportation Systems VL 2 Fundamentals of Aircraft Systems VL 2	
15	Linear Algebra I HŨ 1	Technical Thermodynamics I GŪ 1	Mechanics III (Hydrostatics, Kinematics,	Mechanics IV (Kinetics II, Oscillations,	Engineering	Fundamentals of Aircraft Systems GŪ 1	
16	Analysis I VL 2 Analysis I GÜ 1		Kinetics I) Mechanics III VL 3	Analytical Mechanics, Multibody Systems) Mechanics IV VL 3	Measurement Technology for Mechanical HÜ 1 Engineering	Air Transportation Systems HÜ 1	
17 18	Analysis I GÜ 1 Analysis I HÜ 1		Mechanics III GÜ 2 Mechanics III HÜ 1	Mechanics IV GÜ 2 Mechanics IV HÜ 1	Practical Course: Measurement and PR 2 Control Systems		
10	-	Mechanics II: Mechanics of Materials			Advanced Mechanical Design Project	Electrical Machines and Actuators	Bachelor Thesis
20		Mechanics II: Mechanics or Materials Mechanics II VL 2			Advanced Mechanical Design Project PBL 4	Electrical Machines and Actuators VL 3	Bachelor Thesis
20	Mechanics I (Statics)	Mechanics II GÜ 2 Mechanics II HÜ 2	Mechanical Engineering: Design (part 1)	Signals and Systems		Electrical Machines and Actuators HÜ 2	
22	Mechanics I VL 2	Mechanics II HÜ 2	Embodiment Design and 3D-CAD VL 2	Signals and Systems VL 3			
23	Mechanics I GÜ 2 Mechanics I HÜ 1		Mechanical Design Project I PBL 3	Signals and Systems GÜ 2			
24			Fundamentals of Materials Science (part 1)				
25		Mathematics II	Fundamentals of Materials Science I VL 2 Physical and Chemical Basics of Materials VL 2		Simulation and Design of Mechatronic		
26		Linear Algebra II VL 2 Linear Algebra II GŪ 1	Science		Systems Simulation and Design of Mechatronic VL 2		
27	Programming in C	Linear Algebra II HÜ 1			Systems		
28	Programming in C VL 1 Programming in C PR 1	Analysis II VL 2 Analysis II HÜ 1	Advanced Mechanical Engineering Design		Simulation and Design of Mechatronic HÜ 1 Systems		
29	Physics for Engineers (AIW)	Analysis II GŪ 1	(part 1) Advanced Mechanical Engineering VL 2		Simulation and Design of Mechatronic PR 1		
30	Physics for Engineers VL 2 Physics for Engineers GŪ 1		Design I Advanced Mechanical Engineering HÜ 2 Design I		Systems		
31						-	
32							
	Nontechnical Complementary Courses	for Bachelors (from catalogue) - 6LP					

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