## Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w17)

	, como					sation Compulsory Focus Compulsory	Thesis Compulsory
Sample	e course plan A Bachelor Genera	al Engineering Science (Germai	n program, 7 semester) (AIWBS	(7))	Core Qualification Elective Compulsory Speciali	sation Elective Compulsory Focus Elective Compuls	ory Interdisciplinary complement
pecial	lisation <sub>1</sub> Mechanical Engineering,	Focus 2 Aircraft Systems Engine	esingter 3 FormHrs/wk	Semester 4 FormHrs/v	/k Semester 5 FormHrs/wk	Semester 6 FormHrs/wk	Semester 7 FormHrs/w
1 2 3 4 5 6	Chemistry         VL         2           Chemistry II         VL         2           Chemistry II         HŪ         1           Chemistry II         HŪ         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         GÜ         2           Current Networks and Basic Devices	Technical Thermodynamics II     VL     2       Technical Thermodynamics II     HŪ     1       Technical Thermodynamics II     GŪ     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 (part 2)	Computer Engineering VL 3 Computer Engineering GÜ 1	Foundations of Management Introduction to Management VL 3 Management Tutorial HÜ 2	Advanced Internship AIW/ GES
7 8 9 10 11 12	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     2       Design     VL     2       Design     Undamentals of Mechanical Engineering     HÜ     2       Fundamentals of Mechanical Engineering     HÜ     2       Design     Undamentals of Mechanical Engineering     HÜ     2	Mathematics 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	Advanced Mechanical Engineering VL 2 Design II Advanced Mechanical Engineering HÜ 2 Design II Fluid Dynamics VL 3 Fluid Mechanics VL 3 Fluid Mechanics HÜ 2	Introduction to Control Systems         VL         2           Introduction to Control Systems         GÜ         2           Introduction to Control Systems         GÜ         2	Integrated Product Development and Lightweight Design VL 2 Development of Lightweight Design VL 2 Products CAE-Team Project PBL 2	
13 14 15 16 17 18	Hathematics I       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     HŪ     1       Technical Thermodynamics I     GŪ     1	Mechanics III (Hydrostatics, Kinematics, Kinematics I)         V         Xinetics I)           Mechanics III         VL         3           Mechanics III         GÜ         2           Mechanics III         HÜ         1	Mechanics IV (Kinetics II, Oscillations,       Analytical Mechanics, Multibody Systems)       Mechanics IV     VL       Mechanics IV     GÜ       Mechanics IV     HÜ	Measurement Technology for Mechanical and Process Engineers     J       Measurement Technology for Mechanical and Process Engineers     VL     2       Measurement Technology for Mechanical and Process Engineers     H0     1       Practical Course: Measurement and Control Systems     PR     2	Aeronautical Systems     VL     2       Air Transportation Systems     VL     2       Fundamentals of Aircraft Systems     GÜ     1       Air Transportation Systems     HÜ     1	
19 20 21	Mechanics I (Statics)	Mechanics II: Mechanics of Materials Mechanics II VL 2 Mechanics II GŪ 2 Mechanics II HŪ 2	Mechanical Engineering: Design (part 1)	Signals and Systems	Advanced Mechanical Design Project Advanced Mechanical Design Project PBL 4	Electrical Machines and Actuators           Electrical Machines and Actuators         VL         3           Electrical Machines and Actuators         HŪ         2	Bachelor Thesis
22 23 24 25	Mechanics I VL 2 Mechanics I GŨ 2 Mechanics I HŨ 1	Mathematics II	Embodiment Design and 3D-CAD VL 2 Mechanical Design Project I PBL 3 Fundamentals of Materials Science I VL 2 Physical and Chemical Basics of Materials VL 2	Signals and Systems VL 3 Signals and Systems GÜ 2	Simulation and Design of Mechatronic		
26 27 28	Programming in C Programming in C VL 1 Programming in C PR 1	Linear Algebra II         VL         2           Linear Algebra II         GŨ         1           Linear Algebra II         HŨ         1           Analysis II         VL         2           Analysis II         HŨ         1	Science Advanced Mechanical Engineering Design (part 1)		Systems         VL         2           Simulation and Design of Mechatronic         VL         2           Systems         Simulation and Design of Mechatronic         HÜ         1           Systems         Simulation and Design of Mechatronic         HÜ         1		
29 30 31	Physics for Engineers         VL         2           Physics for Engineers         GÜ         1	Analysis II GÜ 1	Advanced Mechanical Engineering VL 2 Design I Advanced Mechanical Engineering HÜ 2 Design I		Simulation and Design of Mechatronic PR 1 Systems		
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.