**Course of Study General Engineering Science (German program, 7 semester)** (Study Cohort w20)

Core Qualification Compulsory

	e course plan A Bachelor Genera		(Germai	n program, 7 semester) (	AIWBS	(7))		Core Qualification Elective Compul	sory Specialis	ation Elective Compulsory Focus B	Elective Compulso	ry Interdisciplinary complen	ment
pecial	isation:Mechanical Engineering,	Focus₂Mechatronics	FormHrs/wk	Semester 3	FormHrs/wk	Semester 4	FormHrs/wk	Semester 5	FormHrs/wk	Semester 6	FormHrs/wk	Semester 7	FormHrs/v
1 2 3 4 5	Chemistry         VL         4           Chemistry I+II         VL         4           Chemistry I+II         HÜ         2	Electrical Engineering II: Alternating Networks and Basic Devices Electrical Engineering II: Alternating Current Networks and Basic Devices Electrical Engineering II: Alternating Current Networks and Basic Devices	VL 3	Technical Thermodynamics II	VL 2 HÜ 1 GÜ 1	Signals and Systems Signals and Systems Signals and Systems	VL 3 GÜ 2	Introduction to Control Systems Introduction to Control Systems Introduction to Control Systems	VL 2 GÜ 2	Foundations of Management Introduction to Management Management Tutorial	VL 3 GŪ 2	Advanced Internship AIW/ ES Advanced Internship AIW/ ES: Preparation Advanced Intenship AIW/ ES: Internship accompanying Seminar	SE 1
7	Electrical Engineering I: Direct Current	Fundamentals of Mechanical Engine	ering	Mathematics III		Fluid Dynamics		Measurement Technology for Mech	anical	Electrical Machines and Actuator	s		
8 9 10 11 12	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	Design Fundamentals of Mechanical Engineering Design Fundamentals of Mechanical Engineering Design	y VL 2	Analysis III Differential Equations 1	VL 2 GÜ 1 HÜ 1 VL 2 GÜ 1 HÜ 1	Fluid Mechanics Fluid Mechanics	VL 3 HÜ 2	Engineers  Measurement Technology for Mechanic Engineering Measurement Technology for Mechanic Engineering Practical Course: Measurement and Control Systems	al VL 2	Electrical Machines and Actuators Electrical Machines and Actuators	VL 3 HÛ 2		
13 14	Mathematics I         VL 2           Linear Algebra I         GÜ 1	Technical Thermodynamics I Technical Thermodynamics I Technical Thermodynamics I	VL 2 HÜ 1			Mechanics IV (Oscillations, Analytic Mechanics, Multibody Systems, Nu Mechanics)		Electrical Engineering III: Circuit Th Transients Circuit Theory	eory and	Semiconductor Circuit Design Semiconductor Circuit Design Semiconductor Circuit Design	VL 3 GÜ 1		
15 16 17 18	Linear Algebra I         HÜ 1           Analysis I         VL 2           Analysis I         GÜ 1           Analysis I         HÜ 1	Technical Thermodynamics I	GÜ 1	Mechanics III (Dynamics) Mechanics III Mechanics III Mechanics III	VL 3 GÜ 2 HÜ 1	Mechanics IV Mechanics IV Mechanics IV	VL 3 GÜ 2 HÜ 1	Circuit Theory	GŪ 2	•			
19 20		Mechanics II: Mechanics of Materials Mechanics II Mechanics II	VL 2 GÜ 2			Advanced Mechanical Engineering I (part 2) Advanced Mechanical Engineering	esign VL 2	Computer Engineering Computer Engineering Computer Engineering	VL 3 GÜ 1	Mathematics IV Complex Functions Complex Functions	VL 2 GÜ 1	Bachelor Thesis	
22 23	Mechanics I (Statics)           Mechanics I         VL         2           Mechanics I         GÜ         2           Mechanics I         HÜ         1	Mechanics II	HÜ 2	Design I	vL 2	Design II Advanced Mechanical Engineering Design II Mechanical Engineering: Design (pa Team Project Design Methodology	HÜ 2 rt 2) PBL 2	Compact Engineering	55 1	Complex Functions Differential Equations 2 Differential Equations 2 Differential Equations 2	HÜ 1 VL 2 GÜ 1 HÜ 1		
24				Mechanical Engineering: Design (part	t 1)	Mechanical Design Project II	PBL 3						
25 26		Mathematics II Linear Algebra II Linear Algebra II	VL 2 GÜ 1	Embodiment Design and 3D-CAD Mechanical Design Project I	VL 2 PBL 3	Fundamentals of Materials Science Fundamentals of Materials Science II		Numerical Mathematics I  Numerical Mathematics I  Numerical Mathematics I	VL 2 GÜ 2				
27 28	Programming in C         VL 1           Programming in C         PR 1	Linear Algebra II Analysis II Analysis II	HÜ 1 VL 2 HÜ 1	Physical and Chemical Basics of Materials	VL 2				30 2				
29 30 31 32	Physics for Engineers (AIW)           Physics for Engineers         VL 2           Physics for Engineers         GÜ 1	Analysis II	GŪ 1	Science									

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