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

	•	•				Core Qualification Compulsory			Focus Compulsory	Thesis Compulsory	
	course plan B Bachelor Gener			SS(7))		Core Qualification Elective Compulsor	y Specialis	ation Elective Compulsory	Focus Elective Compuls	Interdisciplinary comple	lement
ecial	isation Mechanical Engineering	, Eocus ₂ Energy Systems _{FormHrs/wk}	Semester 3 FormHrs	wk Semester 4	FormHrs/wk	Semester 5 F	ormHrs/wk	Semester 6	FormHrs/wk	Semester 7	Formh
	Chemistry	Electrical Engineering II: Alternating Current	Technical Thermodynamics II	Mechanical Engineering: Design (p	art 2)	Introduction to Control Systems		Foundations of Manageme	nt	Advanced Internship AIW/ ES	
	Chemistry I VL 2	Networks and Basic Devices	Technical Thermodynamics II VL 2	Team Project Design Methodology	PBL 2		VL 2	Introduction to Management	VL 3	Advanced Internship AIW/ ES:	SE
	Chemistry II VL 2	Electrical Engineering II: Alternating VL 3	Technical Thermodynamics II HÜ 1	Mechanical Design Project II	PBL 3	Introduction to Control Systems	GŪ 2	Management Tutorial	GÜ 2	Preparation	
	Chemistry I HÜ 1	Current Networks and Basic Devices	Technical Thermodynamics II GÜ 1							Advanced Intenship AIW/ ES: Internsh	hip- SE
	Chemistry II HÜ 1	Electrical Engineering II: Alternating GŪ 2 Current Networks and Basic Devices		Fundamentals of Materials Science	(part 2)					accompanying Seminar	
		Current Networks and Basic Devices		Fundamentals of Materials Science II	VL 2						
				Fluid Dynamics Fluid Mechanics	VL 3						
	Electrical Engineering I: Direct Current	Fundamentals of Mechanical Engineering	Mathematics III	Fluid Mechanics	HÜ 2	Measurement Technology for Mechani	ical	Advanced Mechanical Engi	neering Design		
	Networks and Electromagnetic Fields Electrical Engineering I: Direct Current VL 3	Design Fundamentals of Mechanical Engineering VL 2	Analysis III VL 2 Analysis III GÜ 1			Engineers Measurement Technology for Mechanical	VI 2	(part 2) Advanced Mechanical Enginee	ring VL 2		
	Networks and Electromagnetic Fields	Design	Analysis III GÜ 1 Analysis III HÜ 1			Engineering	VL Z	Design II	ring VL 2		
	Electrical Engineering I: Direct Current GÜ 2	Fundamentals of Mechanical Engineering HÜ 2	Differential Equations 1 VL 2			Measurement Technology for Mechanical	HÜ 1	Advanced Mechanical Enginee	ring HÜ 2		
	Networks and Electromagnetic Fields	Design	Differential Equations 1 GÜ 1			Engineering		Design II			
.0			Differential Equations 1 HÜ 1			Practical Course: Measurement and	PR 2	Reciprocating Machinery (part 2)		
1						Control Systems		Internal Combustion Engines I	VL 2		
								Internal Combustion Engines I	HÜ 1		
2				Mechanics IV (Kinetics II, Oscillation Analytical Mechanics, Multibody St							
.3	Mathematics I	Technical Thermodynamics I		Mechanics IV	VL 3	Advanced Mechanical Engineering Des	sign				
4	Linear Algebra I VL 2	Technical Thermodynamics I VL 2		Mechanics IV	GÜ 2	(part 1)		Fundamentals of Production	n and Quality		
5	Linear Algebra I GÜ 1	Technical Thermodynamics I HÜ 1	Mechanics III (Hydrostatics, Kinematics,	Mechanics IV	HÜ 1	Advanced Mechanical Engineering Design I	VL 2	Management			
'	Linear Algebra I HÜ 1 Analysis I VL 2	Technical Thermodynamics I GŪ 1	Kinetics I)				HÜ 2	Production Process Organizati			
	Analysis I VL 2 Analysis I GÜ 1		Mechanics III VL 3			Design I		Quality Management	VL 2		
6	Analysis I HÜ 1		Mechanics III GÜ 2			Heat Transfer					
7			Mechanics III HÜ 1				VL 3				
						Heat Transfer	HÜ 2				
8				Signals and Systems							
9		Mechanics II: Mechanics of Materials		Signals and Systems	VL 3 GÜ 2					Bachelor Thesis	
0		Mechanics II VL 2		Signals and Systems	GU 2			Renewables and Energy Sy	stems		
1	Mechanics I (Statics)	Mechanics II GÜ 2 Mechanics II HÜ 2	Computer Engineering					Renewable Energy	VL 2		
_	Mechanics I VL 2	Mechanics II HÜ 2	Computer Engineering VL 3					Energy Systems and Energy Ir	ndustry VL 2		
22	Mechanics I GÜ 2		Computer Engineering GÜ 1			Reciprocating Machinery (part 1)		Power Industry	VL 1		
3	Mechanics I HÜ 1					Fundamentals of Reciprocating Engines and Turbomachinery - Part Reciprocating	VL 1	Renewable Energy	GÜ 1		
						Engines					
						Fundamentals of Reciprocating Engines	HÜ 1				
						and Turbomachinery - Part Reciprocating					
						Engines					
1						Gas and Steam Power Plants					
5		Mathematics II					VL 3 HÜ 1				
6		Linear Algebra II VL 2				Gas and Steam Power Plants	nu I				
7	Programming in C	Linear Algebra II GÜ 1	Mechanical Engineering: Design (part 1)								
_	Programming in C VL 1	Linear Algebra II HÜ 1 Analysis II VL 2	Embodiment Design and 3D-CAD VL 2								
8	Programming in C PR 1	Analysis II VL 2 Analysis II HÜ 1	Mechanical Design Project I PBL 3								
9	Physics for Engineers (AIW)	Analysis II GÜ 1									
	Physics for Engineers (AW) Physics for Engineers VL 2	90 1									
0	Physics for Engineers GÜ 1		Fundamentals of Materials Science (part 1)								
1			Fundamentals of Materials Science I VL 2 Physical and Chemical Basics of Materials VL 2								
2			Science								
-											
3											

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