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

Core Qualification Compulsory

	_				Core Qualification C	Compulsory Special	lisation Compulsory	Focus Compulsory	Thesis Compulsory	
Sample	course plan A Bachelor Gener	al Engineering Science (Germa	n program, 7 semester) (AIWI	3S(7))	Core Qualification E	Elective Compulsory Special	lisation Elective Compulsory	Focus Elective Compulso	ory Interdisciplinary comple	ment
	isation Mechanical Engineering				s/wk Semester 5	FormHrs/wl	k Semester 6	FormHrs/wk	Semester 7	FormHrs/wl
1	Chemistry	Electrical Engineering II: Alternating Current	Technical Thermodynamics II	Signals and Systems	Introduction to Contro		Foundations of Manageme		Advanced Internship AIW/ ES	
2	Chemistry I+II VL 4	Networks and Basic Devices Electrical Engineering II: Alternating VL 3	Technical Thermodynamics II VL 2				Introduction to Management		Advanced Internship AIW/ ES: Preparation	SE 1
3	Chemistry I+II HÜ 2	Current Networks and Basic Devices	Technical Thermodynamics II HÜ 1 Technical Thermodynamics II GŪ 1	Signals and Systems GÜ	! Introduction to Control S	Systems GŪ 2	Management Tutorial	GÜ 2	Advanced Intenship AIW/ ES: Internshi	in. SE 1
4		Electrical Engineering II: Alternating GÜ 2	recinical meniodynamics ii GO 1						accompanying Seminar	p 52 1
		Current Networks and Basic Devices								
5										
6										
7	Electrical Engineering I: Direct Current	Fundamentals of Mechanical Engineering	Mathematics III	Fluid Dynamics	Measurement Techno	logy for Mechanical	Integrated Product Develo	opment and		
8	Networks and Electromagnetic Fields	Design	Analysis III VL 2			,,	Lightweight Design			
8	Electrical Engineering I: Direct Current VL 3	Fundamentals of Mechanical Engineering VL 2	Analysis III GÜ 1	Fluid Mechanics HÜ		gy for Mechanical VL 2	Integrated Product Developm	nent I VL 2		
9	Networks and Electromagnetic Fields	Design	Analysis III HÜ 1		Engineering		Development of Lightweight	Design VL 2		
10	Electrical Engineering I: Direct Current GÜ 2	Fundamentals of Mechanical Engineering HÜ 2	Differential Equations 1 VL 2			gy for Mechanical HÜ 1	Products			
11	Networks and Electromagnetic Fields	Design	Differential Equations 1 GÜ 1		Engineering		CAE-Team Project	PBL 2		
			Differential Equations 1 HÜ 1		Practical Course: Measur Control Systems	rement and PR 2				
12					Control Systems					
13	Mathematics I	Technical Thermodynamics I		Mechanics IV (Oscillations, Analytical	Advanced Mechanical	Design Project	Aeronautical Systems			
14	Linear Algebra I VL 2	Technical Thermodynamics I VL 2		Mechanics, Multibody Systems, Numerical	Advanced Mechanical De	esign Project PBL 4	Air Transportation Systems	VL 2		
	Linear Algebra I GÜ 1	Technical Thermodynamics I HÜ 1		Mechanics)			Fundamentals of Aircraft Sys			
15	Linear Algebra I HÜ 1	Technical Thermodynamics I GÜ 1	Mechanics III (Dynamics) Mechanics III VL 3	Mechanics IV VL Mechanics IV GÜ			Fundamentals of Aircraft Sys			
16	Analysis I VL 2		Mechanics III VL 3	Mechanics IV GU Mechanics IV HÜ			Air Transportation Systems	HÜ 1		
17	Analysis I GÜ 1 Analysis I HÜ 1		Mechanics III HÜ 1	Mechanics IV 110						
18	Analysis I HÜ 1									
19										
		Mechanics II: Mechanics of Materials Mechanics II VL 2		Advanced Mechanical Engineering Design (part 2)	Computer Engineering	9 VL 3	Fundamentals of Producti Management	on and Quality	Bachelor Thesis	
20		Mechanics II VL 2 Mechanics II GÜ 2		Advanced Mechanical Engineering VL	Computer Engineering Computer Engineering	GÜ 1	Production Process Organizat	tion VL 2		
21	Mechanics I (Statics)	Mechanics II HÜ 2	Advanced Mechanical Engineering Design	Design II	Computer Engineering	00 1	Quality Management	VL 2		
	Mechanics I VL 2		(part 1)	Advanced Mechanical Engineering HÜ						
	Mechanics I GÜ 2		Advanced Mechanical Engineering VL 2	Design II						
22	Mechanics I HÜ 1		Design I	Mechanical Engineering: Design (part 2)						
23			Advanced Mechanical Engineering HÜ 2 Design I	Team Project Design Methodology PBL						
24			-	Mechanical Design Project II PBL						
			Mechanical Engineering: Design (part 1) Embodiment Design and 3D-CAD VL 2							
25		Mathematics II	Mechanical Design Project I PBL 3	Fundamentals of Materials Science (part 2	Computational Fluid D					
26		Linear Algebra II VL 2	The 5	Fundamentals of Materials Science II VL						
27	Programming in C	Linear Algebra II GÜ 1 Linear Algebra II HÜ 1	Fundamentals of Materials Science (part 1)		Computational Fluid Dyn	namics I HÜ 2				
	Programming in C VL 1	Linear Algebra II HÜ 1 Analysis II VL 2	Fundamentals of Materials Science (VL 2							
28	Programming in C PR 1	Analysis II VL 2 Analysis II HÜ 1	Physical and Chemical Basics of Materials VL 2							
29	Physics for Engineers (AIW)	Analysis II GÜ 1	Science							
	Physics for Engineers VL 2									
30	Physics for Engineers GÜ 1									
31										
32										
	Non-technical Courses for Bachelors (fr	ram catalogue) ELD								

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