Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w22)

Core Qualification Compulsory Specialisation Compulsory Focus Compulsory

							Core Qualification Compulsory S	specialisa	tion Compulsory Fo	ocus Compulsory	Thesis Compulsory	
ample	e course plan A Bachelor Genera	al Engineering Science (Germ	an program, 7 semester) (Al	IWBS(7))		Core Qualification Elective Compulsory S	Specialisa	tion Elective Compulsory Fo	ocus Elective Compulso	Interdisciplinary complem	ent
	lisation Mechanical Engineering	Francisco Manufactura d'acc			**	rmHrs/wk	Semester 5 Form	Hrs/wk	Semester 6	FormHrs/wk	Semester 7	FormHrs
1				-								
_	Chemistry Chemistry I+II VL 4	Electrical Engineering II: Alternating Current Networks and Basic Devices	Technical Thermodynamics II Technical Thermodynamics II VL	. 2	Signals and Systems Signals and Systems VL	/L 3	Introduction to Control Systems Introduction to Control Systems VL		Foundations of Management Introduction to Management	VL 3	Advanced Internship AIW/ ES Advanced Internship AIW/ ES:	SE 1
2	Chemistry I+II VL 4 Chemistry I+II HÜ 2	Electrical Engineering II: Alternating VL 3	The state of the s) 1		iŪ 2	Introduction to Control Systems VL Introduction to Control Systems GÜ		Management Tutorial	GÜ 2	Preparation	SE .
3	Chemistry ITII NO 2	Current Networks and Basic Devices	The state of the s) 1	Signals and Systems GC	10 2	introduction to control systems Go	2	Management rutoriai	G0 2	Advanced Intenship AIW/ ES: Internship-	SF ·
4		Electrical Engineering II: Alternating GÜ 2	recimed memodynamics ii								accompanying Seminar	
		Current Networks and Basic Devices										
5												
6												
7	Electrical Engineering I: Direct Current	Fundamentals of Mechanical Engineering	Mathematics III		Fluid Dynamics		Measurement Technology for Mechanical		Electrical Machines and Actu	iators		
8	Networks and Electromagnetic Fields	Design	Analysis III VL	. 2	Fluid Mechanics VI	/L 3	Engineers		Electrical Machines and Actuator	rs VL 3		
-	Electrical Engineering I: Direct Current VL 3	Fundamentals of Mechanical Engineering VL 2	Analysis III GÜ) 1	Fluid Mechanics HÜ	IÜ 2	Measurement Technology for Mechanical VL	2	Electrical Machines and Actuator	rs HÜ 2		
9	Networks and Electromagnetic Fields	Design	Analysis III HÜ) 1			Engineering					
10	Electrical Engineering I: Direct Current GÜ 2	Fundamentals of Mechanical Engineering HÜ 2		. 2			Measurement Technology for Mechanical HÜ	1				
11	Networks and Electromagnetic Fields	Design) 1			Engineering Practical Course: Measurement and PR	2				
			Differential Equations 1 HÜ) 1			Control Systems	2				
12												
13	Mathematics I	Technical Thermodynamics I			Computational Mechanics		Electrical Engineering III: Circuit Theory a	and	Semiconductor Circuit Desig	n		
14	Mathematics I VL 4	Technical Thermodynamics I VL 2			Computational Multibody Dynamics IV		Transients		Semiconductor Circuit Design	VL 3		
15	Mathematics I HÜ 2	Technical Thermodynamics I HÜ 1			The second secon		Circuit Theory VL		Semiconductor Circuit Design	GÜ 1		
	Mathematics I GÜ 2	Technical Thermodynamics I GŪ 1	Engineering Mechanics III (Dynamics) Engineering Mechanics III VL	. 3	Computational Stuctural Mechanics IV	V 2	Circuit Theory GŪ	2				
16) 2								
17) 1								
18												
19		Mathematics II			Advanced Mechanical Engineering Desig		Numerical Mathematics I		Mathematics IV		Bachelor Thesis	
		Mathematics II VL 4			(part 2)	gii	Numerical Mathematics I VL	2	Complex Functions	VL 2	bactieior Tilesis	
20		Mathematics II HÜ 2				/L 2	Numerical Mathematics I GÜ		Complex Functions	GÜ 1		
21	Computer Science for Engineers -	Mathematics II GÜ 2	Advanced Mechanical Engineering Design	ın	Design II				Complex Functions	HÜ 1		
	Introduction and Overview		(part 1)			IÜ 2			Differential Equations 2	VL 2		
	Computer Science for Engineers - VL 3			_ 2	Design II				Differential Equations 2	GÜ 1		
22	Introduction and Overview Computer Science for Engineers - GÜ 2		Design I) 2	Mechanical Engineering: Design (part 2)	2)			Differential Equations 2	HÜ 1		
22												
۷۵ ا	Computer Science for Engineers - GŪ 2 Introduction and Overview		Advanced Mechanical Engineering HÜ Design I			BL 2						
			Design I			BL 2 BL 3						
24			Design I Mechanical Engineering: Design (part 1))	Mechanical Design Project II PB	BL 3						
24 25			Design I Mechanical Engineering: Design (part 1)	. 2	Mechanical Design Project II PB Fundamentals of Materials Science (part	BL 3			Computer Science for Engine			
24 25			Design I Mechanical Engineering: Design (part 1) Embodiment Design and 3D-CAD VL Introduction and Practical Training	. 2	Mechanical Design Project II PB	BL 3			Computer Science for Engine Programming Concepts, Data Communication			
24 25 26		Engineering Mechanics II (Elastostatics)	Design I Mechanical Engineering: Design (part 1) Embodiment Design and 3D-CAD VL Introduction and Practical Training	- 2 L 3	Mechanical Design Project II PB Fundamentals of Materials Science (part	BL 3			Programming Concepts, Data	a Handling &		
24 25 26 27	Introduction and Overview	Engineering Mechanics II (Elastostatics) Engineering Mechanics II VL 2	Design I Mechanical Engineering: Design (part 1) Embodiment Design and 3D-CAD VL Introduction and Practical Training Mechanical Design Project I PBL Fundamentals of Materials Science (part	- 2 L 3	Mechanical Design Project II PB Fundamentals of Materials Science (part	BL 3			Programming Concepts, Data Communication Computer Science for Engineers Programming Concepts, Data Ha	a Handling &		
23 24 25 26 27 28	Introduction and Overview Engineering Mechanics I (Stereostatics)		Design I Mechanical Engineering: Design (part 1) Embodiment Design and 3D-CAD VL Introduction and Practical Training Mechanical Design Project I PBL Fundamentals of Materials Science (part	L 3 t1)	Mechanical Design Project II PB Fundamentals of Materials Science (part	BL 3			Programming Concepts, Data Communication Computer Science for Engineers Programming Concepts, Data Ha Communication	a Handling & - VL 3 andling &		
24 25 26 27 28	Introduction and Overview Engineering Mechanics I (Stereostatics) Engineering Mechanics I VL 2	Engineering Mechanics II VL 2	Design I Mechanical Engineering: Design (part 1) Embodiment Design and 3D-CAD VL Introduction and Practical Training Mechanical Design Project I PBL Fundamentals of Materials Science (part Fundamentals of Materials Science I VL	L 3 t1)	Mechanical Design Project II PB Fundamentals of Materials Science (part	BL 3			Programming Concepts, Data Communication Computer Science for Engineers Programming Concepts, Data Ha Communication Computer Science for Engineers	- VL 3 andling &		
24 25 26 27	Engineering Mechanics I (Stereostatics) Engineering Mechanics I VL 2 Engineering Mechanics I GÜ 2	Engineering Mechanics II VL 2 Engineering Mechanics II GÜ 2	Design I Mechanical Engineering: Design (part 1) Embodiment Design and 3D-CAD VL Introduction and Practical Training Mechanical Design Project I PBL Fundamentals of Materials Science (part Fundamentals of Materials Science I VL Physical and Chemical Basics of Materials VL	L 3 t1)	Mechanical Design Project II PB Fundamentals of Materials Science (part	BL 3			Programming Concepts, Data Communication Computer Science for Engineers Programming Concepts, Data Ha Communication Computer Science for Engineers Programming Concepts, Data Ha	- VL 3 andling &		
24 25 26 27 28 29 30	Engineering Mechanics I (Stereostatics) Engineering Mechanics I VL 2 Engineering Mechanics I GÜ 2	Engineering Mechanics II VL 2 Engineering Mechanics II GÜ 2	Design I Mechanical Engineering: Design (part 1) Embodiment Design and 3D-CAD VL Introduction and Practical Training Mechanical Design Project I PBL Fundamentals of Materials Science (part Fundamentals of Materials Science I VL Physical and Chemical Basics of Materials VL	L 3 t1)	Mechanical Design Project II PB Fundamentals of Materials Science (part	BL 3			Programming Concepts, Data Communication Computer Science for Engineers Programming Concepts, Data Ha Communication Computer Science for Engineers	- VL 3 andling &		
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The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.