Course of Study General Engineering Science (German program) (Study Cohort w15)

Sample course plan C Bachelor General Engineering Science (German program) (AIWBS) Specialisation Mechanical Engineering, Focus Theoretical Mechanical Engineering

LP	Semester 1 For	rmHrs/wk	Semester 2	FormHrs/wk	Semester 3	FormHrs/wl	Semester 4	FormHrs/wk	Semester 5	FormHrs/wl	k Semester 6	FormHrs/wk
1	Physics for Engineers (part 1)		Electrical Engineering II: Alternating Current		Technical Thermodynamics II		Mechanical Engineering: Design (part 2)		Introduction to Control Systems		Foundations of Management	
2	Physics for Engineers VL	L 2	Networks and Basic Devices		Technical Thermodynamics II	VL 2	Team Project Design Methodology	POL 2	Introduction to Control Systems	VL 2	Introduction to Management	VL 4
3	Physics for Engineers UE	E 1	Electrical Engineering II: Alternating	VL 3	Technical Thermodynamics II	HÜ 1	Mechanical Design Project II	TT 3	Introduction to Control Systems	UE 2	Project Entrepreneurship	POL 2
-			Current Networks and Basic Devices Electrical Engineering II: Alternating	LIF 2	Technical Thermodynamics II	UE 1						
4			Current Networks and Basic Devices	OL Z			Fundamentals of Materials Science	<u> </u>				
5	Chemistry						Fundamentals of Materials Science	II VL 2				
6	*	L 2					Advanced Mechanical Engineering	Design				
7	· ·	L 2	Fundamentals of Mechanical Engineer	ring	Computer Engineering		(part 2)		Measurement Technology for Mech	anical and	Mathematics IV	
8	•	Ü 1	Design	ŭ	Computer Engineering	VL 3	Advanced Mechanical Engineering	VL 2	Process Engineers		Complex Functions	VL 2
8	Onemistry ii	0 1	Fundamentals of Mechanical	VL 2	Computer Engineering	UE 1	Design II		Measurement Technology for	VL 2	Complex Functions	UE 1
			Engineering Design				Advanced Mechanical Engineering Design II	HÜ 2	Mechanical and Process Engineers	;	Complex Functions	HÜ 1
				HÜ 2					Measurement Technology for	HÜ 1	Differential Equations 2	VL 2
9			Engineering Design				Signals and Systems	VI 0	Mechanical and Process Engineers		Differential Equations 2	UE 1
10							Signals and Systems Signals and Systems	VL 3 HÜ 1	Practical Course: Measurement and Control Systems	PR 2	Differential Equations 2	HÜ 1
11	Electrical Engineering I: Direct Current						Signals and Systems	по і	Contion Systems			
12	Networks and Electromagnetic Fields											
	Electrical Engineering I: Direct Current VL	L 3										
13	Networks and Electromagnetic Fields		Technical Thermodynamics I		Mathematics III				Simulation of Dynamic Systems an Reliability	d	Bachelor Thesis	
14	Electrical Engineering I: Direct Current UE	E 2	•	VL 2 HÜ 1	Analysis III	VL 2			Simulation of Dynamic Systems	VL 2		
15	Networks and Electromagnetic Fields			UE 1	Analysis III Analysis III	UE 1 HÜ 1	Fluid Dynamics		Reliability of Dynamic Systems	VL 2		
16			recillical melliodynamics i	OL I	Differential Equations 1	VL 2	Fluid Mechanics	VL 3	Simulation of Dynamic Systems	UE 1		
-					Differential Equations 1	UE 1	Fluid Mechanics	HÜ 1	Reliability of Dynamic Systems	UE 1		
17	Mathematics I				Differential Equations 1	HÜ 1						
18		L 2										
19	Linear Algebra I UE Linear Algebra I HÜ	E 1	Mechanics II: Mechanics of Materials						Advanced Mechanical Design Proj	ect		
20	·	L 2	Mechanics II	VL 2					Advanced Mechanical Design Proje	ect TT 4		
		E 1	Mechanics II	UE 2		_						
21	Analysis I HÜ	Ü 1	Mechanics II	HÜ 2	Mechanics III (Hydrostatics, Kinema Kinetics I)	tics,	Mechanics IV (Kinetics II, Oscillation Analytical Mechanics, Multibody Sy					
22					Mechanics III	VL 3	Mechanics IV	VL 3				
23					Mechanics III	UE 2	Mechanics IV	UE 2				
24					Mechanics III	HÜ 1	Mechanics IV	HÜ 1				
25	Mechanics I (Statics)		Mathematics II						Heat Transfer			
_		L 2		VL 2					Heat Transfer	VL 3		
26		E 2	•	UE 1					Heat Transfer	HÜ 1		
27		Ü 1		HÜ 1	Mechanical Engineering: Design (pa		Advanced Materials					
28			Analysis II	VL 2	Embodiment Design and 3D-CAD	VL 2	Advanced Materials Characterization					
29			Analysis II	HÜ 1	Mechanical Design Project I	TT 3	Advanced Materials Design	VL 2				
_			Analysis II	UE 1			Advanced Materials Design	HÜ 2				
30					Fundamentals of Materials Science	<u> </u>						
31					Fundamentals of Materials Science I Physical and Chemical Basics of							
32					Filysical and Chemical Basics of	VL 2						
33			Programming in C		Materials Science				I			
33			r rogramming in O									

34	Programming in C Programming in C	VL PR		Advanced Mechanical Engineering Design (part 1)
35	Physics for Engineers (part 2)			Advanced Mechanical Engineering VL 2
36	Physics-Lab for ET/ AIW/ GES	PR	1	Design I Advanced Mechanical Engineering HÜ 2 Design I

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.