Course of Study General Engineering Science (German program) (Study Cohort w14)

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

Core qualification Compulsory

Specialisation Compulsory

Focus Compulsory

Thesis Compulsory

Specialisation Mechanical Engineering, Focus Theoretical Mechanical Engineering						Core qualification Elective Specialisation Elective Focus Elective Compulsory Interdisciplinary control Compulsory Computer Compute			complement			
LP	Semester 1	FormHrs/wk	Semester 2 F	ormHrs/wk	Semester 3	FormHrs/wk	Semester 4	FormHrs/wł	Semester 5	FormHrs/wk	Semester 6	FormHrs/wk
1	Physics for Engineers (part 1)		Electrical Engineering II: Alternating C	urrent	Technical Thermodynamics II		Mechanical Engineering: Design (par	t 2)	Introduction to Control Syste	ems	Foundations of Management	
2	Physics for Engineers	VL 2	Networks and Basic Devices		Technical Thermodynamics II	VL 2	Team Project Design Methodology	POL 2	Introduction to Control Syste	ems VL 2	Introduction to Management	VL 4
3	Physics for Engineers	UE 1	Electrical Engineering II: Alternating	VL 3	Technical Thermodynamics II	HÜ 1	Mechanical Design Project II	тт з	Introduction to Control Syste	ems UE 2	Project Entrepreneurship	POL 2
			Current Networks and Basic Devices Electrical Engineering II: Alternating		Technical Thermodynamics II	UE 1						
4			Current Networks and Basic Devices				Fundamentals of Materials Science (p Fundamentals of Materials Science II	<u> </u>				
5	Chemistry						Fundamentals of Materials Science II	VL 2				
6	Chemistry I	VL 2					Advanced Mechanical Engineering D	esign				
7	Chemistry I Chemistry I	VL 2 HÜ 1	Fundamentals of Mechanical Engineer	ing	Computer Engineering		(part 2)		Measurement Technology for	or Mechanical and	Mathematics IV	
8	Chemistry II	HÜ 1	Design		Computer Engineering	VL 3	Advanced Mechanical Engineering Design II	VL 2	Process Engineers		Complex Functions	VL 2
Ŭ				VL 2	Computer Engineering	UE 1	Advanced Mechanical Engineering	HÜ 2	Measurement Technology fo		Complex Functions	UE 1
			Engineering Design				Design II	110 2	Mechanical and Process En	-	Complex Functions	HÜ 1
9			Fundamentals of Mechanical Engineering Design	HÜ 2			Signals and Systems		Measurement Technology fo Mechanical and Process En		Differential Equations 2	VL 2
			Engineering Design				Signals and Systems	VL 3	Practical Course: Measurem	-	Differential Equations 2	UE 1 HÜ 1
10							Signals and Systems	HÜ 1	Control Systems		Differential Equations 2	HU I
11	Electrical Engineering I: Direct Curre											
12	Networks and Electromagnetic Fields Electrical Engineering I: Direct Currer											
13	Networks and Electromagnetic Fields		Technical Thermodynamics I		Mathematics III				Simulation of Dynamic Syst	ems and	Bachelor Thesis	
14	Electrical Engineering I: Direct Currer		Technical Thermodynamics I	VL 2	Analysis III	VL 2			Reliability			
	Networks and Electromagnetic Fields		Technical Thermodynamics I	HÜ 1	Analysis III	UE 1	Fluid Demonitor		Simulation of Dynamic Syst			
15			Technical Thermodynamics I	UE 1	Analysis III	HÜ 1	Fluid Dynamics Fluid Mechanics	VL 3	Reliability of Dynamic Syste			
16					Differential Equations 1	VL 2	Fluid Mechanics	VL 3 HÜ 1	Simulation of Dynamic Syst			
17	Mathematics I				Differential Equations 1 Differential Equations 1	UE 1 HÜ 1			Reliability of Dynamic Syste			
18	Linear Algebra I	VL 2			Diferential Equations 1	110 1						
19	Linear Algebra I	UE 1	Mechanics II: Mechanics of Materials						Advanced Mechanical Desig	an Project		
	Linear Algebra I	HÜ 1 VL 2		VL 2					Advanced Mechanical Desig			
20	Analysis I Analysis I	UE 1		UE 2								
21	Analysis I	ΗÜ 1			Mechanics III (Hydrostatics, Kinem	atics,	Mechanics IV (Kinetics II, Oscillation					
22					Kinetics I)	VL 3	Analytical Mechanics, Multibody Sys	VL 3				
23					Mechanics III Mechanics III	VL 3 UE 2	Mechanics IV Mechanics IV	UE 2				
24					Mechanics III	HÜ 1	Mechanics IV	HÜ 1				
	Machanica I (Chatian)		Mathematica II						Heat Transfer			
25	Mechanics I (Statics)	VL 2	Mathematics II Linear Algebra II	VL 2					Heat Transfer Heat Transfer	VL 3		
26	Mechanics I	UE 2		VL 2 UE 1					Heat Transfer	VL 3 HÜ 1		
27	Mechanics I	HÜ 1		ΗÜ 1	Mechanical Engineering: Design (p	art 1)	Advanced Materials					
28				VL 2	Embodiment Design and 3D-CAD	VL 2	Advanced Materials Characterization					
29				HÜ 1	Mechanical Design Project I	тт з	Advanced Materials Design	VL 2				
			Analysis II	UE 1	Fundamentals of Materials O 1	(11 - 11 - 1)	Advanced Materials Design	HÜ 2				
30					Fundamentals of Materials Science	u ,						
31					Physical and Chemical Basics of	VL 2						
32												
33			Programming in C		Materials Science				-			

34		Programming in C Programming in C	VL 1 PR 1	Advanced Mechanical Engineering Design (part 1)
35		Physics for Engineers (part 2)		Advanced Mechanical Engineering VL 2
36		Physics-Lab for ET/IIW-Engineers	PR 1	Design I
00				Advanced Mechanical Engineering HÜ 2
				Design I
	Nontechnical Complementary Courses	s for Bachelors (from catalogue	e) - 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.