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

Sample course plan B Bachelor General Engineering Science (German program) (AIWBS) Specialisation Mechanical Engineering, Focus Energy Systems Legend: Core qualification Compulsory

Specialisation Compulsory

Focus Compulsory

Thesis Compulsory

Spec	cialisation Mechanical E	ngineeri	ng, Focus Energy Syst	tems		·	Core qualification Elective Compulsory		cialisation Elective npulsory	Focus Elective Con	npulsory	Interdisciplinary com	nplement
LP	Semester 1	FormHrs/wk	Semester 2	FormHrs/w	Semester 3	FormHrs/wk	Semester 4	FormHrs/wł	Semester 5	FormHrs/wł	Semester 6		FormHrs/w
1	Physics for Engineers (part 1)		Electrical Engineering II: Alternating	g Current	Technical Thermodynamics II		Mechanical Engineering: Design (part	2)	Introduction to Control System	ms	Foundations	of Management	
2	Physics for Engineers	VL 2	Networks and Basic Devices		Technical Thermodynamics II	VL 2	, , , ,,	POL 2	Introduction to Control System		Introduction	o Management	VL 4
3	Physics for Engineers	UE 1	Electrical Engineering II: Alternating Current Networks and Basic Devices		Technical Thermodynamics II	HÜ 1	Mechanical Design Project II	TT 3	Introduction to Control System	ns UE 2	Project Entre	preneurship	POL 2
4	_		Electrical Engineering II: Alternating		Technical Thermodynamics II	UE 1	Fundamentals of Materials Science (page 1)	ort 2)					
			Current Networks and Basic Devices				Fundamentals of Materials Science (p						
5	Chemistry Chemistry I	VL 2											
6	Chemistry II	VL 2 VL 2					Advanced Mechanical Engineering De	sign					
7	Chemistry I	HÜ 1	Fundamentals of Mechanical Engine	eering	Computer Engineering		(part 2) Advanced Mechanical Engineering	VL 2	Measurement Technology for	Mechanical and	Reciprocatin	g Machinery (part 2)	
8	Chemistry II	HÜ 1	Design		Computer Engineering	VL 3	Design II	VL Z	Process Engineers			bustion Engines I	VL 2
			Fundamentals of Mechanical Engineering Design	VL 2	Computer Engineering	UE 1	Advanced Mechanical Engineering	HÜ 2	Measurement Technology for Mechanical and Process End		Internal Com	bustion Engines I	HÜ 1
			Fundamentals of Mechanical	HÜ 2			Design II		Measurement Technology for				
9			Engineering Design				Signals and Systems		Mechanical and Process Eng				
10								VL 3	Practical Course: Measureme	ent and PR 2			
11	Electrical Engineering I: Direct Cur	rent					Signals and Systems	HÜ 1	Control Systems		Bachelor The	esis	
12	Networks and Electromagnetic Field												
	Electrical Engineering I: Direct Curre	ent VL 3											
13	Networks and Electromagnetic Field		Technical Thermodynamics I	VL 2	Mathematics III	VL 2			Gas and Steam Power Plants				
14	Electrical Engineering I: Direct Curre Networks and Electromagnetic Field		Technical Thermodynamics I Technical Thermodynamics I	VL 2 HÜ 1	Analysis III Analysis III	UE 1			Gas and Steam Power Plants Gas and Steam Power Plants				
15			Technical Thermodynamics I	UE 1	Analysis III	HÜ 1	Fluid Dynamics						
16					Differential Equations 1	VL 2		VL 3					
17	Mathematics I				Differential Equations 1	UE 1	Fluid Mechanics	HÜ 1					
	Linear Algebra I	VL 2			Differential Equations 1	HÜ 1							
18	Linear Algebra I	UE 1											
19	Linear Algebra I	HÜ 1	Mechanics II: Mechanics of Materia						Computational Fluid Dynamic				
20	Analysis I	VL 2	Mechanics II Mechanics II	VL 2 UE 2					Computational Fluid Dynamic Computational Fluid Dynamic				
21	Analysis I Analysis I	UE 1 HÜ 1		OL L	Mechanics III (Hydrostatics, Kiner	matics,	Mechanics IV (Kinetics II, Oscillations	,	Computational Haid Dynamic	.51 110 2			
22	Analysis i	110 1			Kinetics I)		Analytical Mechanics, Multibody Syste						
23					Mechanics III	VL 3	Mechanics IV Mechanics IV	VL 3 UE 2					
24					Mechanics III Mechanics III	UE 2 HÜ 1		UE 2 HÜ 1					
25	Mechanics I (Statics)	VL 2	Mathematics II	VL 2					Heat Transfer	VL 3			
26	Mechanics I Mechanics I	VL 2 UE 2	Linear Algebra II Linear Algebra II	VL 2 UE 1					Heat Transfer Heat Transfer	VL 3 HÜ 1			
27	Mechanics I	HÜ 1	Linear Algebra II	HÜ 1	Mechanical Engineering: Design ((part 1)	Fundamentals of Production and Quali	ty	nout handler				
28			Analysis II	VL 2	Embodiment Design and 3D-CAD	VL 2	Management						
29			Analysis II	HÜ 1	Mechanical Design Project I	TT 3	° °	VL 2					
30			Analysis II	UE 1	Fundamentals of Materials Science	20 (port 1)	Quality Management	VL 2					
					Fundamentals of Materials Science								
31					Physical and Chemical Basics of				Reciprocating Machinery (pa				
32									Fundamentals of Reciprocatin	-			
					Materials Science				Engines and Turbomachinery	- Part			

				Fundamentals of Reciprocating HÜ 1 Engines and Turbomachinery - Part Reciprocating Engines
33		Programming in C		
34	-	Programming in C VL 1	Advanced Mechanical Engineering Design	
0.		Programming in C PR 1	(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) - 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.