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 Energy Systems Legend:

Core qualification Compulsory

Specialisation Compulsory

Focus Compulsory

Thesis Compulsory

Specialisation Mechanical Engineering, Focus Energy Systems								cialisation Elective pulsory	Focus Elective Con	pulsory Interdisciplinary		complement	
LP	Semester 1	FormHrs/wk	Semester 2	FormHrs/w	Semester 3	FormHrs/wł	Semester 4 For	mHrs/wk	Semester 5	FormHrs/wł	Semester 6		FormHrs/w
1	Physics for Engineers (part 1)		Electrical Engineering II: Alternating	Current	Technical Thermodynamics II		Mechanical Engineering: Design (part 2)		Introduction to Control Syste	ms	Foundations	of Management	
2	Physics for Engineers	VL 2	Networks and Basic Devices		Technical Thermodynamics II	VL 2	Team Project Design Methodology POL	L 2	Introduction to Control Syster	ns VL 2	Introduction t	o Management	VL 4
3	Physics for Engineers	UE 1	Electrical Engineering II: Alternating	VL 3	Technical Thermodynamics II	HÜ 1	Mechanical Design Project II TT	3	Introduction to Control Syster	ns UE 2	Project Entre	preneurship	POL 2
-			Current Networks and Basic Devices Electrical Engineering II: Alternating		Technical Thermodynamics II	UE 1							
4			Current Networks and Basic Devices	UE 2			Fundamentals of Materials Science (part 2						
5	Chemistry						Fundamentals of Materials Science II VL	. 2					
6	Chemistry I	VL 2					Advanced Mechanical Engineering Desig	jn					
7	Chemistry II	VL 2 HÜ 1	Fundamentals of Mechanical Enginee	ering	Computer Engineering		(part 2)		Measurement Technology for	Mechanical and	Reciprocatin	g Machinery (part 2)	
8	Chemistry I Chemistry II	HU I HÜ 1	Design	Ū.	Computer Engineering	VL 3		. 2	Process Engineers			oustion Engines I	VL 2
8	Chemistry in	110 1	Fundamentals of Mechanical	VL 2	Computer Engineering	UE 1	Design II	i o	Measurement Technology for	VL 2	Internal Com	oustion Engines I	HÜ 1
			Engineering Design				Advanced Mechanical Engineering HÜ Design II	, 2	Mechanical and Process Eng				
9			Fundamentals of Mechanical	HÜ 2			Signals and Systems		Measurement Technology for				
-			Engineering Design					. 3	Mechanical and Process Eng Practical Course: Measureme				
10							· · · · · ·	- о Ј 1	Control Systems	antanu Fri Z			
11	Electrical Engineering I: Direct Curre										Bachelor The	esis	
12	Networks and Electromagnetic Fields												
13	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	VL 3	Technical Thermodynamics I		Mathematics III				Gas and Steam Power Plants	5			
14	Electrical Engineering I: Direct Current	UE 2	Technical Thermodynamics I	VL 2	Analysis III	VL 2			Gas and Steam Power Plants				
	Networks and Electromagnetic Fields		Technical Thermodynamics I	HÜ 1	Analysis III	UE 1			Gas and Steam Power Plants	HÜ 2			
15			Technical Thermodynamics I	UE 1	Analysis III	HÜ 1	Fluid Dynamics						
16					Differential Equations 1	VL 2		. 3) 1					
17	Mathematics I				Differential Equations 1	UE 1	Fluid Mechanics Fluid	, ,					
18	Linear Algebra I	VL 2			Differential Equations 1	HÜ 1							
	Linear Algebra I	UE 1	Marchandra II. Marchandra of Mataria						Ormania di Andre Di Mala Di Marani				
19	Linear Algebra I	HÜ 1	Mechanics II: Mechanics of Materials	VL 2					Computational Fluid Dynamic Computational Fluid Dynamic				
20	Analysis I	VL 2	Mechanics II	UE 2					Computational Fluid Dynamic				
21	Analysis I Analysis I	UE 1 HÜ 1	Mechanics II	ΗÜ 2	Mechanics III (Hydrostatics, Kinema	atics,	Mechanics IV (Kinetics II, Oscillations,						
22	/maryoro r	110 1			Kinetics I)		Analytical Mechanics, Multibody Systems						
23					Mechanics III	VL 3		3					
					Mechanics III Mechanics III	UE 2 HÜ 1		E 2 Ú 1					
24						110 1		, i					
25	Mechanics I (Statics)		Mathematics II						Heat Transfer				
26	Mechanics I	VL 2	Linear Algebra II	VL 2					Heat Transfer	VL 3			
27	Mechanics I Mechanics I	UE 2 HÜ 1	Linear Algebra II Linear Algebra II	UE 1 HÜ 1	Mechanical Engineering: Design (pa	art 1)	Advanced Materials		Heat Transfer	HÜ 1			
28			Analysis II	VL 2	Embodiment Design and 3D-CAD	VL 2	Advanced Materials Characterization VL	. 2					
			Analysis II	HÜ 1	Mechanical Design Project I	TT 3		. 2					
29			Analysis II	UE 1			Advanced Materials Design HÜ) 2					
30					Fundamentals of Materials Science								
31					Fundamentals of Materials Science				Reciprocating Machinery (pa	rt 1)			
32					Physical and Chemical Basics of	VL 2			Fundamentals of Reciprocation	ng VL 1			
					Materials Science				Engines and Turbomachinery				

					Fundamentals of Reciprocating Engines and Turbomachinery - Part Reciprocating Engines	HÜ 1
33		Programming in C				
34		Programming in C VL	. 1	Advanced Mechanical Engineering Design		
		Programming in C PR	R 1	(part 1)		
35		Physics for Engineers (part 2)		Advanced Mechanical Engineering VL 2		
36	-	Physics-Lab for ET/ AIW/ GES PR	1	Design I		
00				Advanced Mechanical Engineering HÜ 2		
				Design I		
	Nontechnical Complementary Courses	s for Bachelors (from catalogue) - 6	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.