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

Sample course plan A Bachelor General Engineering Science (German program) (AIWBS) Specialisation Mechanical Engineering, Focus Materials in Engineering Sciences Legend:

Core qualification Compulsory

Specialisation Compulsory

Focus Compulsory

Thesis Compulsory

Speci	alisation Mechanical Engine	ering, Focus Materials in Engin	eering Sciences		Core qualification Elective Compulsory		ialisation Elective F pulsory	ocus Elective Cor	npulsory Interdisciplinary	complement
LP	Semester 1 FormHrs	wk Semester 2 FormHrs.	wk Semester 3 For	mHrs/wł	Semester 4 Form-	Hrs/wk	Semester 5	FormHrs/wl	k 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 System	s	Foundations of Management	
2	Physics for Engineers VL 2	Networks and Basic Devices	-	_ 2	Team Project Design Methodology POL		Introduction to Control System		Introduction to Management	VL 4
3	Physics for Engineers UE 1	Electrical Engineering II: Alternating VL 3 Current Networks and Basic Devices		Ü 1	Mechanical Design Project II TT	3	Introduction to Control System	SUE 2	Project Entrepreneurship	POL 2
4		Electrical Engineering II: Alternating UE 2	Technical Thermodynamics II UE	Ξ 1	Fundamentals of Materials Science (part 2)	n				
		Current Networks and Basic Devices			Fundamentals of Materials Science (part 2)					
5	Chemistry Chemistry I VL 2	-				-				
6	Chemistry I VL 2 Chemistry II VL 2				Advanced Mechanical Engineering Design	י				
7	Chemistry I HÜ 1	Fundamentals of Mechanical Engineering	Computer Engineering		(part 2) Advanced Mechanical Engineering VL		Measurement Technology for	Mechanical and	Structural Materials (part 2)	
8	Chemistry II HÜ 1	Design	I have a second se second second s	L 3	Design II	2	Process Engineers		Fundamentals of Mechanical	VL 2
		Fundamentals of Mechanical VL 2 Engineering Design	Computer Engineering UE	Ξ 1	Advanced Mechanical Engineering HÜ	2	Measurement Technology for Mechanical and Process Engi	VL 2	Properties of Materials	
		Fundamentals of Mechanical HÜ 2			Design II		Measurement Technology for	HÜ 1		
9		Engineering Design			Signals and Systems		Mechanical and Process Engi			
10					Signals and Systems VL		Practical Course: Measuremen	t and PR 2	Enhanced Fundamentals of M	aterials Science
11	Electrical Engineering I: Direct Current				Signals and Systems HÜ	1	Control Systems		Fundamentals of Metallic Mat	erials VL 2
	Networks and Electromagnetic Fields								Fundamentals of Ceramic and	VL 2
12	Electrical Engineering I: Direct Current VL 3								Polymer Materials	
13	Networks and Electromagnetic Fields	Technical Thermodynamics I	Mathematics III				Numerical Mathematics I		Fundamentals of Ceramic and Polymer Materials	HÜ 1
14	Electrical Engineering I: Direct Current UE 2 Networks and Electromagnetic Fields	Technical Thermodynamics I VL 2 Technical Thermodynamics I HÜ 1		L 2 E 1			Numerical Mathematics I Numerical Mathematics I	VL 2 UE 2	,	
15	Networks and Liectionagnetic rields	Technical Thermodynamics I UE 1	Analysis III HÚ		Fluid Dynamics		Numerical Mathematics I	OL 2		
16				2	Fluid Mechanics VL				Bachelor Thesis	
17	Mathematics I	_	Differential Equations 1 UE	∃ 1	Fluid Mechanics HÜ	1				
	Linear Algebra I VL 2	-	Differential Equations 1 HU	Ü 1						
18	Linear Algebra I UE 1		_							
19	Linear Algebra I HÜ 1	Mechanics II: Mechanics of Materials	-				Structural Materials (part 1)			
20	Analysis I VL 2	Mechanics II VL 2 Mechanics II UE 2					Welding Technology	VL 3		
21	Analysis I UE 1 Analysis I HÜ 1	Mechanics II UE 2	Mechanics III (Hydrostatics, Kinematics,		Mechanics IV (Kinetics II, Oscillations,					
22	Analysis I HÜ 1		Kinetics I)		Analytical Mechanics, Multibody Systems)		Material Science Laboratory			
23				L 3	Mechanics IV VL		Companion Lecture for Materia	s VL 2		
				E 2 Ü 1	Mechanics IV UE Mechanics IV HÜ		Science Laboratory			
24					Ho	·	Material Science Laboratory	PR 4		
25	Mechanics I (Statics)	Mathematics II	-							
26	Mechanics I VL 2 Mechanics I UE 2	Linear Algebra II VL 2 Linear Algebra II UE 1								
27	Mechanics I HÜ 1	Linear Algebra II DE I	Mechanical Engineering: Design (part 1)		Electrical Machines					
28		Analysis II VL 2	Embodiment Design and 3D-CAD VL	2	Electrical Machines VL					
29		Analysis II HÜ 1	Mechanical Design Project I T	Г 3	Electrical Machines HÜ	2				
		Analysis II UE 1	Enderschilt of March 10, 0							
30			Fundamentals of Materials Science (part	1)						
31				L 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.