## 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 Materials in Engineering Sciences Legend:

Core qualification Compulsory

Specialisation Compulsory

Focus Compulsory

Thesis Compulsory

Specia	alisation Mechanical Engir	neeri	ng, Focus Materials in En	ginee	ering Sciences		Core qualification Elective Compulsory		ialisation Elective	Focus Elective Cor	npulsory Interdisciplin	ary complement
LP	Semester 1 For	mHrs/wk	Semester 2 For	mHrs/wk	Semester 3	FormHrs/wł	Semester 4 F	FormHrs/wk	Semester 5	FormHrs/wl	k Semester 6	FormHrs/wł
1	Physics for Engineers (part 1)		Electrical Engineering II: Alternating Curr	rent	Technical Thermodynamics II		Mechanical Engineering: Design (part 2	2)	Introduction to Control Syster	ns	Foundations of Managemen	ıt
2		. 2	Networks and Basic Devices		Technical Thermodynamics II	VL 2		POL 2	Introduction to Control System		Introduction to Managemen	
3	Physics for Engineers UE	1	Electrical Engineering II: Alternating VL Current Networks and Basic Devices	. 3	Technical Thermodynamics II Technical Thermodynamics II	HÜ 1 UE 1	Mechanical Design Project II	TT 3	Introduction to Control System	s UE 2	Project Entrepreneurship	POL 2
4			Electrical Engineering II: Alternating UE	2	rechnical memodynamics n	UE I	Fundamentals of Materials Science (pa	art 2)				
5	Chemistry		Current Networks and Basic Devices				Fundamentals of Materials Science II					
-	-	. 2										
6		. 2					Advanced Mechanical Engineering Des (part 2)	sign				
7	Chemistry I HÜ		Fundamentals of Mechanical Engineering Design	1	Computer Engineering		Advanced Mechanical Engineering	VL 2	Measurement Technology for Process Engineers	Mechanical and	Structural Materials (part 2	<u> </u>
8	Chemistry II HÜ	) 1	· · · · · · · · · · · · · · · · · · ·	. 2	Computer Engineering Computer Engineering	VL 3 UE 1	Design II		Measurement Technology for	VL 2	Fundamentals of Mechanic Properties of Materials	al VL 2
			Engineering Design				Advanced Mechanical Engineering	HÜ 2	Mechanical and Process Eng			
0				) 2			Design II		Measurement Technology for	HÜ 1		
9			Engineering Design				Signals and Systems	VL 3	Mechanical and Process Eng Practical Course: Measureme			
10								HÜ 1	Control Systems	itano Ph 2	Enhanced Fundamentals of	
11	Electrical Engineering I: Direct Current										Fundamentals of Metallic M Fundamentals of Ceramic a	
12	Networks and Electromagnetic Fields										Polymer Materials	
13	Electrical Engineering I: Direct Current VL Networks and Electromagnetic Fields	. 3	Technical Thermodynamics I		Mathematics III				Numerical Mathematics I		Fundamentals of Ceramic a	nd HÜ 1
14	Electrical Engineering I: Direct Current UE	2	Technical Thermodynamics I VL	. 2	Analysis III	VL 2			Numerical Mathematics I	VL 2	Polymer Materials	
15	Networks and Electromagnetic Fields			) 1	Analysis III	UE 1	Fluid Dynamics		Numerical Mathematics I	UE 2		
			Technical Thermodynamics I UE	- 1	Analysis III	HÜ 1		VL 3				
16					Differential Equations 1 Differential Equations 1	VL 2 UE 1		HÜ 1			Bachelor Thesis	
17	Mathematics I				Differential Equations 1	HÜ 1						
18	Linear Algebra I VL Linear Algebra I UE	2										
19	Linear Algebra I HÜ		Mechanics II: Mechanics of Materials						Structural Materials (part 1)			
20		. 2		. 2					Welding Technology	VL 3		
21	Analysis I UE		Mechanics II UE	2	Mechanics III (Hydrostatics, Kinema	atics.	Mechanics IV (Kinetics II, Oscillations,					
	Analysis I HÜ	) 1			Kinetics I)	,	Analytical Mechanics, Multibody Syste		Material Science Laboratory			
22					Mechanics III	VL 3		VL 3	Companion Lecture for Materia	als VL 2		
23					Mechanics III	UE 2		UE 2	Science Laboratory			
24					Mechanics III	HÜ 1	Mechanics IV	HÜ 1	Material Science Laboratory	PR 4		
25	Mechanics I (Statics)		Mathematics II									
26		2	о С	2								
27		2 ) 1	Linear Algebra II UE Linear Algebra II HÜ	1 ) 1	Mechanical Engineering: Design (pa	art 1)	Advanced Materials					
28	10			. 2	Embodiment Design and 3D-CAD	VL 2	Advanced Materials Characterization	VL 2			1	
29				) 1	Mechanical Design Project I	тт з		VL 2				
			Analysis II UE	5 1	Fundamentale of Materials Oct	(mark 1)	Advanced Materials Design	HÜ 2				
30					Fundamentals of Materials Science	<u> </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.