## 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 Materials in Engineering Sciences

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Legend:

Core qualification Compulsory

Core qualification Elective

Specialisation Elective

Compulsory

							Compaisory	00	pulsory			
LP	Semester 1	FormHrs/wl	Semester 2	FormHrs/wl	Semester 3	FormHrs/wl	Semester 4	FormHrs/wk	Semester 5	FormHrs/wk	Semester 6	FormHrs/wk
1	Physics for Engineers (part 1)		Electrical Engineering II: Alternating (	Current	Technical Thermodynamics II		Mechanical Engineering: Design (pa	rt 2)	Introduction to Control Systems		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 Systems	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 3	Introduction to Control Systems	UE 2	Project Entrepreneurship	POL 2
-			Current Networks and Basic Devices Electrical Engineering II: Alternating	LIE 2	Technical Thermodynamics II	UE 1						
4			Current Networks and Basic Devices	OL Z			Fundamentals of Materials Science ( Fundamentals of Materials Science I	<u> </u>				
5	Chemistry						rundamentals of Materials Science i	I VL Z				
6	Chemistry I	VL 2					Advanced Mechanical Engineering D	Design				
7	Chemistry I	VL 2 HÜ 1	Fundamentals of Mechanical Engineer	ring	Computer Engineering		(part 2)		Measurement Technology for Mech	anical and	Structural Materials (part 2)	
8	Chemistry II	HÜ 1	Design		Computer Engineering	VL 3	Advanced Mechanical Engineering Design II	VL 2	Process Engineers		Fundamentals of Mechanical	VL 2
			Fundamentals of Mechanical	VL 2	Computer Engineering	UE 1	Advanced Mechanical Engineering	HÜ 2	Measurement Technology for	VL 2	Properties of Materials	
			Engineering Design Fundamentals of Mechanical	HÜ 2			Design II		Mechanical and Process Engineers  Measurement Technology for	HÜ 1		
9			Engineering Design	110 2			Signals and Systems		Mechanical and Process Engineers	110 1		
10							Signals and Systems	VL 3	Practical Course: Measurement and	PR 2	Enhanced Fundamentals of Materia	Is Science
11	Electrical Engineering I: Direct Curre	nt					Signals and Systems	HÜ 1	Control Systems		Fundamentals of Metallic Materials	VL 2
-	Networks and Electromagnetic Fields										Fundamentals of Ceramic and	VL 2
12	Electrical Engineering I: Direct Curren	t 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	t UE 2	·	VL 2	Analysis III	VL 2			Numerical Mathematics I	VL 2	1 diyinei watenais	
15	Networks and Electromagnetic Fields		Technical Thermodynamics I Technical Thermodynamics I	HÜ 1 UE 1	Analysis III Analysis III	UE 1 HÜ 1	Fluid Dynamics		Numerical Mathematics I	UE 2		
16			Toomiou momodynamico i	02 .	Differential Equations 1	VL 2	Fluid Mechanics	VL 3			Bachelor Thesis	
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 Materials						Structural Materials (part 1)			
20	Analysis I	VL 2		VL 2 UE 2					Welding Technology	VL 3		
21	Analysis I	UE 1 HÜ 1	Mechanics II	HÜ 2	Mechanics III (Hydrostatics, Kinem	atics,	Mechanics IV (Kinetics II, Oscillation	ıs,				
22	Analysis I	HU 1	Modification in	2	Kinetics I)		Analytical Mechanics, Multibody Sys	stems)	Material Science Laboratory			
23					Mechanics III	VL 3	Mechanics IV	VL 3	Companion Lecture for Materials	VL 2		
					Mechanics III Mechanics III	UE 2 HÜ 1	Mechanics IV Mechanics IV	UE 2 HÜ 1	Science Laboratory			
24					Wiceria/IICS III	но т	Wednanios IV	110 1	Material Science Laboratory	PR 4		
25	Mechanics I (Statics)		Mathematics II									
26	Mechanics I	VL 2	-	VL 2								
27	Mechanics I Mechanics I	UE 2 HÜ 1	Linear Algebra II Linear Algebra II	UE 1 HÜ 1	Mechanical Engineering: Design (p	art 1)	Advanced Materials					
28				VL 2	Embodiment Design and 3D-CAD	VL 2	Advanced Materials Characterization	VL 2				
			Analysis II	HÜ 1	Mechanical Design Project I	TT 3	Advanced Materials Design	VL 2				
29			Analysis II	UE 1			Advanced Materials Design	HÜ 2				
30					Fundamentals of Materials Science	. ,						
31					Fundamentals of Materials Science Physical and Chemical Basics of	I VL 2 VL 2						
32						VL Z						
33	†		Programming in C		Materials Science							

34	Programming in C Programming in C	VL PR		Advanced Mechanical Engineering Design (part 1)
35	Physics for Engineers (part 2)			Advanced Mechanical Engineering VL 2
36	Physics-Lab for ET/ AIW/ GES	PR	1	Design I  Advanced Mechanical Engineering HÜ 2  Design I

Nontechnical Complementary Courses 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.