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 Mechatronics

Programming in C

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Legend:

Core qualification Compulsory

Core qualification Elective

Specialisation Elective

Compulsory

LP	Semester 1	FormHrs/wl	Semester 2	FormHrs/wk	Semester 3	FormHrs/wk	Semester 4	FormHrs/wk	Semester 5	FormHrs/wk	Semester 6	FormHrs/wk
1	Physics for Engineers (part 1) Electrical Engineering II: Alternating Curr		Current	Technical Thermodynamics II		Mechanical Engineering: Design (part 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 Current Networks and Basic Devices	VL 3	Technical Thermodynamics II	HÜ 1	Mechanical Design Project II	TT 3	Introduction to Control Systems	UE 2	Project Entrepreneurship	POL 2
			Electrical Engineering II: Alternating	UE 2	Technical Thermodynamics II	UE 1	For demonstrate of Materials October 1	·				
4			Current Networks and Basic Devices	02 2			Fundamentals of Materials Science (
5	Chemistry						rundamentals of Materials Science i	I VL Z				
6	Chemistry I	VL 2					Advanced Mechanical Engineering D	Design				
7	Chemistry II Chemistry I	VL 2 HÜ 1	Fundamentals of Mechanical Engineer	ring	Computer Engineering		(part 2)		Measurement Technology for Mech	nanical and	Semiconductor Circuit Design	
8	Chemistry II	HÜ 1	Design		Computer Engineering	VL 3	Advanced Mechanical Engineering Design II	VL 2	Process Engineers		Semiconductor Circuit Design	VL 3
	·			VL 2	Computer Engineering	UE 1	Advanced Mechanical Engineering	HÜ 2	Measurement Technology for	VL 2	Semiconductor Circuit Design	UE 1
			Engineering Design Fundamentals of Mechanical	HÜ 2			Design II		Mechanical and Process Engineers Measurement Technology for	HÜ 1		
9			Engineering Design	HU Z			Signals and Systems		Mechanical and Process Engineers			
10							Signals and Systems	VL 3	Practical Course: Measurement and	PR 2		
	Electrical Engineering I: Direct Curre						Signals and Systems	HÜ 1	Control Systems			
11	Networks and Electromagnetic Fields											
12	Electrical Engineering I: Direct Currer											
13	Networks and Electromagnetic Fields		Technical Thermodynamics I		Mathematics III				Simulation of Dynamic Systems an	nd	Mathematics IV	
14	Electrical Engineering I: Direct Currer		•	VL 2	Analysis III	VL 2			Reliability		Complex Functions	VL 2
15	Networks and Electromagnetic Fields		·	HÜ 1	Analysis III	UE 1 HÜ 1	Fluid Dynamics		Simulation of Dynamic Systems	VL 2 VL 2	Complex Functions	UE 1
_			Technical Thermodynamics I	UE 1	Analysis III Differential Equations 1	HU 1 VL 2	Fluid Mechanics	VL 3	Reliability of Dynamic Systems Simulation of Dynamic Systems	VL 2 UE 1	Complex Functions Differential Equations 2	HÜ 1 VL 2
16					Differential Equations 1	UE 1	Fluid Mechanics	HÜ 1	Reliability of Dynamic Systems	UE 1	Differential Equations 2	UE 1
17	Mathematics I				Differential Equations 1	HÜ 1					Differential Equations 2	HÜ 1
18	Linear Algebra I	VL 2										
19	Linear Algebra I Linear Algebra I	UE 1 HÜ 1	Mechanics II: Mechanics of Materials						Electrical Engineering III: Circuit T	heory and	Bachelor Thesis	
20	Analysis I	VL 2	Mechanics II	VL 2					Transients			
	Analysis I	UE 1	Mechanics II	UE 2	Markania III (Ibalaan Arkin IV)	- 41	Manhaulan IV (Klaskias II Osalliskias		Circuit Theory	VL 3		
21	Analysis I	HÜ 1			Mechanics III (Hydrostatics, Kinem Kinetics I)	aucs,	Mechanics IV (Kinetics II, Oscillation Analytical Mechanics, Multibody Sys		Circuit Theory	UE 2		
22					Mechanics III	VL 3	Mechanics IV	VL 3				
23					Mechanics III	UE 2	Mechanics IV	UE 2				
24					Mechanics III	HÜ 1	Mechanics IV	HÜ 1				
25	Mechanics I (Statics)		Mathematics II									
26	Mechanics I	VL 2	, and the second	VL 2								
27	Mechanics I	UE 2	-	UE 1	Mechanical Engineering: Design (p	art 1)	Fundamentals of Production and Qua	lity				
	Mechanics I	HÜ 1	· ·	HÜ 1 VL 2	Embodiment Design and 3D-CAD	VL 2	Management	,				
28			-	VL 2 HÜ 1	Mechanical Design Project I	TT 3	Production Process Organization	VL 2				
29			·	UE 1			Quality Management	VL 2				
30					Fundamentals of Materials Science	(part 1)						
31					Fundamentals of Materials Science							
32					Physical and Chemical Basics of	VL 2						
02					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/IIW-Engineers	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.