Course of Study General Engineering Science (German program) (Study Cohort w15)

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

Programming in C

33

Legend:

Core qualification Compulsory

Core qualification Elective

Specialisation Elective

Compulsory

						Compulsory	Com	npulsory			
LP	P Semester 1 FormHrs/wk Semeste		k Semester 2 FormHrs/v	emester 2 FormHrs/wk Semester 3 FormHrs/wk S		Semester 4 FormHrs/wk S		Semester 5 FormHrs/w		k Semester 6 FormHrs/wk	
1	Physics for Engineers (part 1)		Electrical Engineering II: Alternating 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 VL 3	Technical Thermodynamics II	HÜ 1	Mechanical Design Project II	TT 3	Introduction to Control Systems	UE 2	Project Entrepreneurship	POL 2
			Current Networks and Basic Devices Electrical Engineering II: Alternating UE 2	Technical Thermodynamics II	UE 1						
4			Current Networks and Basic Devices			Fundamentals of Materials Science	. ,				
5	Chemistry					rundamentals of Materials Science i	II VL Z				
6	Chemistry II	VL 2 VL 2				Advanced Mechanical Engineering I	Design				
7	Chemistry I	HÜ 1	Fundamentals of Mechanical Engineering	Computer Engineering		(part 2)	1/1 0	Measurement Technology for Mech	nanical 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 Engineering Design	Computer Engineering	UE 1	Advanced Mechanical Engineering	HÜ 2	Measurement Technology for Mechanical and Process Engineers	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 Engineers			
10						Signals and Systems	VL 3	Practical Course: Measurement and	PR 2	Enhanced Fundamentals of Material	s Science
11	Electrical Engineering I: Direct Curre	ent				Signals and Systems	HÜ 1	Control Systems		Fundamentals of Metallic Materials	VL 2
12	Networks and Electromagnetic Fields	3								Fundamentals of Ceramic and	VL 2
	Electrical Engineering I: Direct Curren	t VL 3								Polymer Materials Fundamentals of Ceramic and	HÜ 1
13	Networks and Electromagnetic Fields		Technical Thermodynamics I Technical Thermodynamics I VL 2	Mathematics III Analysis III	VL 2			Numerical Mathematics I Numerical Mathematics I	VL 2	Polymer Materials	110 1
14	Electrical Engineering I: Direct Curren Networks and Electromagnetic Fields	ITUE 2	Technical Thermodynamics I HÜ 1	Analysis III	UE 1			Numerical Mathematics I	UE 2		
15			Technical Thermodynamics I UE 1	Analysis III	HÜ 1	Fluid Dynamics					
16				Differential Equations 1	VL 2	Fluid Mechanics	VL 3			Bachelor Thesis	
17	Mathematics I			Differential Equations 1	UE 1	Fluid Mechanics	HÜ 1				
18	Linear Algebra I	VL 2		Differential Equations 1	HÜ 1						
	Linear Algebra I	UE 1	Mechanics II: Mechanics of Materials					Structural Materials (part 1)			
19	Linear Algebra I	HÜ 1	Mechanics II VL 2					Welding Technology	VL 3		
20	Analysis I Analysis I	VL 2 UE 1	Mechanics II UE 2					Wording recombinegy	VL 0		
21	Analysis I	HÜ 1	Mechanics II HÜ 2	Mechanics III (Hydrostatics, Kinema	atics,	Mechanics IV (Kinetics II, Oscillation					
22				Kinetics I) Mechanics III	VL 3	Analytical Mechanics, Multibody System Mechanics IV	VL 3	Material Science Laboratory			
23				Mechanics III	UE 2	Mechanics IV	UE 2	Companion Lecture for Materials	VL 2		
24				Mechanics III	HÜ 1	Mechanics IV	HÜ 1	Science Laboratory Material Science Laboratory	PR 4		
25	Mechanics I (Statics)		Mathematics II	_				Material Science Laboratory	111 4		
26	Mechanics I	VL 2	Linear Algebra II VL 2								
_	Mechanics I	UE 2	Linear Algebra II UE 1								
27	Mechanics I	HÜ 1	Linear Algebra II HÜ 1	Mechanical Engineering: Design (pa	VL 2	Fundamentals of Production and Qua Management	anty				
28			Analysis II VL 2 Analysis II HÜ 1	Mechanical Design Project I	TT 3	Production Process Organization	VL 2				
29			Analysis II HÜ 1 Analysis II UE 1	2 7 2		Quality Management	VL 2				
30				Fundamentals of Materials Science	(part 1)						
31				Fundamentals of Materials Science							
32	+			Physical and Chemical Basics of	VL 2						
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.