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

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 En	gineeri	ng, Focus Materials in I	Engine	ering Sciences		Core qualification Elective Compulsory		cialisation Elective pulsory	Focus Elective Cor	mpulsory	Interdisciplinary comp	lement
LP	Semester 1	FormHrs/wk	Semester 2	FormHrs/wk	Semester 3	FormHrs/wł	Semester 4	FormHrs/wł	Semester 5	FormHrs/w	k Semester 6		FormHrs/wk
1	Physics for Engineers (part 1)			Current	Technical Thermodynamics II		Mechanical Engineering: Design (part 2)		Introduction to Control Systems		Foundations of Management		
2		VL 2	Networks and Basic Devices		Technical Thermodynamics II	VL 2	Team Project Design Methodology	POL 2	Introduction to Control System		Introduction	o 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 System	ns UE 2	Project Entre	preneurship	POL 2
4			Electrical Engineering II: Alternating	UE 2	Technical Thermodynamics II	UE 1	Fundamentale of Materiale Caianas ((mart 0)					
-			Current Networks and Basic Devices				Fundamentals of Materials Science	· · · ·					
5	Chemistry												
6		VL 2 VL 2					Advanced Mechanical Engineering	Design					
7		HÜ 1	Fundamentals of Mechanical Enginee	ring	Computer Engineering		(part 2))// 0	Measurement Technology for	Mechanical and	Structural M	aterials (part 2)	
8	Chemistry II	HÜ 1	Design		Computer Engineering	VL 3	Advanced Mechanical Engineering Design II	VL 2	Process Engineers			s of Mechanical	VL 2
			Fundamentals of Mechanical Engineering Design	VL 2	Computer Engineering	UE 1	Advanced Mechanical Engineering	HÜ 2	Measurement Technology for Mechanical and Process End		Properties of	Materials	
			Fundamentals of Mechanical	HÜ 2			Design II		Measurement Technology for				
9			Engineering Design				Signals and Systems		Mechanical and Process Eng				
10							Signals and Systems	VL 3	Practical Course: Measureme	ent and PR 2	Enhanced Fi	Indamentals of Material	s Science
11	Electrical Engineering I: Direct Currer	*					Signals and Systems	HÜ 1	Control Systems		Fundamenta	s of Metallic Materials	VL 2
	Networks and Electromagnetic Fields										Fundamenta	s of Ceramic and	VL 2
12	Electrical Engineering I: Direct Current	VL 3									Polymer Mat		
13	Networks and Electromagnetic Fields		Technical Thermodynamics I		Mathematics III				Numerical Mathematics I		Fundamenta Polymer Mat	s of Ceramic and	HÜ 1
14	Electrical Engineering I: Direct Current	UE 2	Technical Thermodynamics I	VL 2	Analysis III	VL 2			Numerical Mathematics I	VL 2	Polymeria	enais	
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			rechnicar mennodynamics i	UE I	Differential Equations 1	VL 2	Fluid Mechanics	VL 3			Bachelor Th	acie	
					Differential Equations 1	UE 1	Fluid Mechanics	HÜ 1				5313	
17	Mathematics I Linear Algebra I	VL 2			Differential Equations 1	HÜ 1							
18		UE 1											
19		HÜ 1	Mechanics II: Mechanics of Materials	;					Structural Materials (part 1)				
20	Analysis I	VL 2	Mechanics II	VL 2					Welding Technology	VL 3			
21		UE 1	Mechanics II	UE 2	Mechanics III (Hydrostatics, Kinema	atics.	Mechanics IV (Kinetics II, Oscillation	15.					
	Analysis I	HÜ 1	Mechanics II	HÜ 2	Kinetics I)		Analytical Mechanics, Multibody Sys		Material Onlinear Laboration				
22					Mechanics III	VL 3	Mechanics IV	VL 3	Material Science Laboratory Companion Lecture for Materi	als VL 2			
23					Mechanics III	UE 2	Mechanics IV	UE 2	Science Laboratory	uio VL 2			
24					Mechanics III	HÜ 1	Mechanics IV	HÜ 1	Material Science Laboratory	PR 4			
25	Mechanics I (Statics)		Mathematics II										
26	Mechanics I	VL 2	Linear Algebra II	VL 2									
27		UE 2	Linear Algebra II	UE 1	Mechanical Engineering: Design (p	art 1)	Electrical Machines						
	Mechanics I	HÜ 1	Linear Algebra II	HÜ 1	Embodiment Design and 3D-CAD	VL 2	Electrical Machines	VL 3					
28			Analysis II Analysis II	VL 2 HÜ 1	Mechanical Design Project I	TT 3	Electrical Machines	HÜ 2					
29			Analysis II	UE 1									
30					Fundamentals of Materials Science	e (part 1)							
31					Fundamentals of Materials Science	IVL 2							
32					Physical and Chemical Basics of	VL 2							
					Materials Science								
33	1		Programming in C										

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/ AIW/ GES	PR 1	Design I
00				Advanced Mechanical Engineering HÜ 2
				Design I
	Nontechnical Complementary Courses	s for Bachelors (from catalogu	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.