Course of Study General Engineering Science (German program) (Study Cohort w14)

Sample course plan A Bachelor General Engineering Science (German program) (AIWBS) Specialisation Mechanical Engineering, Focus Product Development and Production Legend:

Core qualification Compulsory

Specialisation Compulsory

Focus Compulsory

Thesis Compulsory

Spec	ialisation Mechanical Engin	neeri	ng, Focus Product Deve	elopme	ent and Production	,	Core qualification Elective Compulsory		cialisation Elective npulsory	Focus Elective Cor	mpulsory	Interdisciplinary comp	lement
LP	Semester 1 Form	nHrs/wk	Semester 2	FormHrs/w	Semester 3	FormHrs/wk	Semester 4	FormHrs/w	Semester 5	FormHrs/wł	k Semester 6		FormHrs/wl
1	Physics for Engineers (part 1)		Electrical Engineering II: Alternating Curren	Current	Technical Thermodynamics II		Mechanical Engineering: Design (part 2)		Introduction to Control Syste	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 System	ms VL 2	Introduction	o 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 System	ms UE 2	Project Entre	preneurship	POL 2
	-		Current Networks and Basic Devices Electrical Engineering II: Alternating	UE 2	Technical Thermodynamics II	UE 1	Endemontale of Materials Onlines (
4			Current Networks and Basic Devices				Fundamentals of Materials Science () Fundamentals of Materials Science II						
5	Chemistry	_					Fundamentals of Materials Science in	VL Z					
6	Chemistry I VL Chemistry II VL						Advanced Mechanical Engineering D	esign					
7	Chemistry I HÜ		Fundamentals of Mechanical Engineer	ring	Computer Engineering		(part 2)		Measurement Technology fo	r Mechanical and	Integrated P	oduct Development and	d
8	Chemistry II HÜ		Design		Computer Engineering	VL 3	Advanced Mechanical Engineering Design II	VL 2	Process Engineers		Lightweight	Design	
			Fundamentals of Mechanical	VL 2	Computer Engineering	UE 1	Advanced Mechanical Engineering	HÜ 2	Measurement Technology for		-	oduct Development I	VL 2
			Engineering Design Fundamentals of Mechanical	HÜ 2			Design II		Mechanical and Process Eng Measurement Technology for		Developmer Products	t of Lightweight Design	VL 2
9			Engineering Design	110 2			Signals and Systems		Mechanical and Process En		CAE-Team F	roiect	POL 2
10							Signals and Systems	VL 3	Practical Course: Measurem	ent and PR 2			
11	Electrical Engineering I: Direct Current						Signals and Systems	HÜ 1	Control Systems				
	Networks and Electromagnetic Fields												
12	Electrical Engineering I: Direct Current VL	3											
13	Networks and Electromagnetic Fields		Technical Thermodynamics I		Mathematics III				Advanced Mechanical Desig		Bachelor Th	esis	
14	Electrical Engineering I: Direct Current UE	2	Technical Thermodynamics I	VL 2	Analysis III	VL 2			Advanced Mechanical Desig	n Project TT 4			
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						
16	-		rechnical memodynamics i	UE I	Differential Equations 1	VL 2	Fluid Mechanics	VL 3					
					Differential Equations 1	UE 1	Fluid Mechanics	HÜ 1					
17	Mathematics I Linear Algebra I VL				Differential Equations 1	HÜ 1							
18	Linear Algebra I UE												
19	Linear Algebra I HÜ		Mechanics II: Mechanics of Materials						Production Technology				
20	Analysis I VL	2	Mechanics II	VL 2					Forming and Cutting Technol				
21	Analysis I UE		Mechanics II	UE 2	Mechanics III (Hydrostatics, Kinem	atics,	Mechanics IV (Kinetics II, Oscillation	s,	Forming and Cutting Technol				
	Analysis I HÜ	1			Kinetics I)		Analytical Mechanics, Multibody Sys		Fundamentals of Machine To	ols VL 3			
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						Material Science Laboratory				
26	Mechanics I VL		Linear Algebra II	VL 2					Companion Lecture for Mater	ials VL 2			
27	Mechanics I UE		Linear Algebra II	UE 1	Mechanical Engineering: Design (p	art 1)	Electrical Machines		Science Laboratory				
	Mechanics I HÜ	1	Linear Algebra II Analysis II	HÜ 1 VL 2	Embodiment Design and 3D-CAD	VL 2	Electrical Machines	VL 3	Material Science Laboratory	PR 4			
28			Analysis II	VL 2 HÜ 1	Mechanical Design Project I	тт з	Electrical Machines	HÜ 2					
29			Analysis II	UE 1									
30					Fundamentals of Materials Science	(part 1)							
31					Fundamentals of Materials Science						-		
32	-				Physical and Chemical Basics of	VL 2							
	-		Dromonoming in C		Materials Science				1				
33			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/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.