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 Aircraft Systems Engineering Legend:

Core qualification Compulsory

Specialisation Compulsory

Focus Compulsory

Thesis Compulsory

Speci	alisation Mechanical En	gineeri	ing, Focus Aircraft Systems	s Eng	jineering		Core qualification Elective Compulsory		cialisation Elective Focus pulsory	Elective Cor	npulsory Interdisciplinary comp	olement
LP	Semester 1	FormHrs/wk	Semester 2 Form	mHrs/wk	Semester 3	FormHrs/wł	Semester 4	FormHrs/wk	Semester 5	FormHrs/w	Semester 6	FormHrs/wk
1	Physics for Engineers (part 1)		Electrical Engineering II: Alternating Curre	rent	Technical Thermodynamics II		Mechanical Engineering: Design (part	t 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	: ,	Technical Thermodynamics II	UE 1						
4			Current Networks and Basic Devices				Fundamentals of Materials Science (p Fundamentals of Materials Science II	<u> </u>				
5	Chemistry						Fundamentals of Materials Science II	VL 2				
6	Chemistry I	VL 2					Advanced Mechanical Engineering De	esign				
7	Chemistry II Chemistry I	VL 2 HÜ 1	Fundamentals of Mechanical Engineering	1	Computer Engineering		(part 2)		Measurement Technology for Mec	hanical and	Integrated Product Development an	d
8	Chemistry II	HÜ 1	Design		Computer Engineering	VL 3	Advanced Mechanical Engineering	VL 2	Process Engineers		Lightweight Design	
0			Fundamentals of Mechanical VL	. 2	Computer Engineering	UE 1	Design II Advanced Mechanical Engineering	HÜ 2	Measurement Technology for	VL 2	Integrated Product Development I	VL 2
			Engineering Design				Design II	110 2	Mechanical and Process Engineer		Development of Lightweight Design	VL 2
9			Fundamentals of Mechanical HÜ Engineering Design) 2			Signals and Systems		Measurement Technology for Mechanical and Process Engineer	HÜ 1	Products	
-			Engineering Design					VL 3	Practical Course: Measurement and		CAE-Team Project	POL 2
10							· · · · · ·	HÜ 1	Control Systems			
11	Electrical Engineering I: Direct Curre											
12	Networks and Electromagnetic Fields Electrical Engineering I: Direct Current											
13	Networks and Electromagnetic Fields	VL 3	Technical Thermodynamics I		Mathematics III				Simulation of Dynamic Systems ar	nd	Aeronautical Systems	
14	Electrical Engineering I: Direct Current	UE 2	Technical Thermodynamics I VL	. 2	Analysis III	VL 2			Reliability		Air Transportation Systems	VL 2
	Networks and Electromagnetic Fields		Technical Thermodynamics I HÜ) 1	Analysis III	UE 1			Simulation of Dynamic Systems	VL 2	Fundamentals of Aircraft Systems	VL 2
15			Technical Thermodynamics I UE	1	Analysis III	HÜ 1	Fluid Dynamics		Reliability of Dynamic Systems	VL 2	Fundamentals of Aircraft Systems	UE 1
16					Differential Equations 1	VL 2		VL 3 HÜ 1	Simulation of Dynamic Systems	UE 1	Air Transportation Systems	HÜ 1
17	Mathematics I				Differential Equations 1 Differential Equations 1	UE 1 HÜ 1		110 1	Reliability of Dynamic Systems	UE 1		
18	Linear Algebra I	VL 2			Differential Equations 1	HU I						
19	Linear Algebra I	UE 1	Mechanics II: Mechanics of Materials						Advanced Mechanical Design Pro	iect	Bachelor Thesis	
	Linear Algebra I	HÜ 1		. 2					Advanced Mechanical Design Proj	· · · · · · · · · · · · · · · · · · ·		
20	Analysis I Analysis I	VL 2 UE 1	Mechanics II UE						·····			
21	Analysis I	HÜ 1	Mechanics II HÜ) 2	Mechanics III (Hydrostatics, Kinema	atics,	Mechanics IV (Kinetics II, Oscillations					
22					Kinetics I)		Analytical Mechanics, Multibody Syst					
23					Mechanics III Mechanics III	VL 3 UE 2	Mechanics IV Mechanics IV	VL 3 UE 2				
24					Mechanics III	HÜ 1	Mechanics IV	HÜ 1				
	Mechanics I (Statics)		Mathematics II									
25	Mechanics I (Statics)	VL 2		. 2								
26	Mechanics I	UE 2	Linear Algebra II UE									
27	Mechanics I	HÜ 1	Linear Algebra II HÜ		Mechanical Engineering: Design (pa		Fundamentals of Production and Qual	ity				
28			Analysis II VL	. 2	Embodiment Design and 3D-CAD	VL 2	Management					
29			Analysis II HÜ		Mechanical Design Project I	ТТ 3	Production Process Organization	VL 2 VL 2				
30			Analysis II UE	- 1	Fundamentals of Materials Science	(port 1)	Quality Management	VL Z				
					Fundamentals of Materials Science							
31					Physical and Chemical Basics of	VL 2						
32												
33			Programming in C		Materials Science							

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.