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 Aircraft Systems Engineering Legend:

Core qualification Compulsory

Specialisation Compulsory

Focus Compulsory

Thesis Compulsory

Specia	alisation Mechanical Eng	gineeri	ng, Focus Aircraft Syste	ems Eng	gineering		Core qualification Elective Compulsory		cialisation Elective Foc npulsory	us Elective Con	npulsory Interdisciplinary comp	plement
LP	Semester 1 F	ormHrs/wk	Semester 2	FormHrs/wk	Semester 3	FormHrs/wł	Semester 4	FormHrs/wł	Semester 5	FormHrs/wł	Semester 6	FormHrs/w
1	Physics for Engineers (part 1)		Electrical Engineering II: Alternating	Current	Technical Thermodynamics II		Mechanical Engineering: Design (par	rt 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		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		Technical Thermodynamics II	UE 1						
4			Current Networks and Basic Devices				Fundamentals of Materials Science () Fundamentals of Materials Science II	. ,				
5	Chemistry						Fundamentals of Materials Science in	VL 2				
6		VL 2					Advanced Mechanical Engineering D)esign				
7	-	VL 2 HÜ 1	Fundamentals of Mechanical Engine	ering	Computer Engineering		(part 2)		Measurement Technology for Me	chanical and	Integrated Product Development and	nd
8		HÜ 1	Design		Computer Engineering	VL 3	Advanced Mechanical Engineering Design II	VL 2	Process Engineers		Lightweight Design	
Ŭ			Fundamentals of Mechanical	VL 2	Computer Engineering	UE 1	Advanced Mechanical Engineering	HÜ 2	Measurement Technology for	VL 2	Integrated Product Development I	VL 2
			Engineering Design				Design II		Mechanical and Process Engine		Development of Lightweight Design	VL 2
9			Fundamentals of Mechanical Engineering Design	HÜ 2			Signals and Systems		Measurement Technology for Mechanical and Process Engine	HÜ 1	Products CAE-Team Project	POL 2
10			Engineering Design				Signals and Systems	VL 3	Practical Course: Measurement a		CAE-Team Project	POL 2
							Signals and Systems	HÜ 1	Control Systems			
11	Electrical Engineering I: Direct Current	t										
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	and	Aeronautical Systems	
14	Electrical Engineering I: Direct Current I	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	VL 3	Reliability of Dynamic Systems	VL 2	Fundamentals of Aircraft Systems	UE 1
16					Differential Equations 1	VL 2	Fluid Mechanics Fluid Mechanics	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			Diferential Equations 1	HU I						
19		UE 1	Mechanics II: Mechanics of Material	e					Advanced Mechanical Design Pr	oject	Bachelor Thesis	
		HÜ 1	Mechanics II	VL 2					Advanced Mechanical Design Pr			<u> </u>
20		VL 2 UE 1	Mechanics II	UE 2					Navanoca weenanical besign in	0,000 11 4		
21		HÜ 1	Mechanics II	HÜ 2	Mechanics III (Hydrostatics, Kinem	natics,	Mechanics IV (Kinetics II, Oscillation					
22					Kinetics I)		Analytical Mechanics, Multibody Sys					
23					Mechanics III Mechanics III	VL 3 UE 2	Mechanics IV Mechanics IV	VL 3 UE 2				
24					Mechanics III Mechanics III	UE 2 HÜ 1	Mechanics IV Mechanics IV	UE 2 HÜ 1				
25	Mechanics I (Statics)		Mathematics II)// 0								
26		VL 2 UE 2	Linear Algebra II Linear Algebra II	VL 2 UE 1								
27		UE 2 HÜ 1	Linear Algebra II	UE I HÜ 1	Mechanical Engineering: Design (p	part 1)	Electrical Machines					
28			Analysis II	VL 2	Embodiment Design and 3D-CAD	VL 2	Electrical Machines	VL 3				
-			Analysis II	HÜ 1	Mechanical Design Project I	TT 3	Electrical Machines	HÜ 2				
29			Analysis II	UE 1								
30					Fundamentals of Materials Science							
31					Fundamentals of Materials Science							
					Physical and Chemical Basics of	VL 2						
32												

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.