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

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

Specia	pecialisation Mechanical Engineering, Focus Aircraft Systems Engineering								cialisation Elective Focus Elective		Compulsory Interdisciplinary comple	
LP	Semester 1 F	ormHrs/wk	Semester 2	FormHrs/wk	Semester 3	FormHrs/wl	Semester 4 For	ormHrs/wk	Semester 5	FormHrs/wł	Semester 6	FormHrs/wl
1	Physics for Engineers (part 1)		Electrical Engineering II: Alternating	Current	Technical Thermodynamics II		Mechanical Engineering: Design (part 2)	)	Introduction to Control System	ems	Foundations of Management	
2		VL 2	Networks and Basic Devices		Technical Thermodynamics II	VL 2		OL 2	Introduction to Control Syste		Introduction to 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	т з	Introduction to Control Syste	ems UE 2	Project Entrepreneurship	POL 2
4			Electrical Engineering II: Alternating	UE 2	Technical Thermodynamics II	UE 1	Fundamentals of Materials Science (part	4.0)				
			Current Networks and Basic Devices				Fundamentals of Materials Science (part					
5	Chemistry	VL 2										
6		VL 2 VL 2					Advanced Mechanical Engineering Desig	ign				
7		HÜ 1	Fundamentals of Mechanical Enginee	ering	Computer Engineering		(part 2) Advanced Mechanical Engineering VL		Measurement Technology for	or Mechanical and	Integrated Product Development and	ıd
8	Chemistry II	HÜ 1	Design		Computer Engineering	VL 3	Design II	L 2	Process Engineers		Lightweight Design	
			Fundamentals of Mechanical Engineering Design	VL 2	Computer Engineering	UE 1		IÜ 2	Measurement Technology for Mechanical and Process En		Integrated Product Development I	VL 2 VL 2
			Fundamentals of Mechanical	HÜ 2			Design II		Measurement Technology for		Development of Lightweight Design Products	VL 2
9			Engineering Design				Signals and Systems		Mechanical and Process En		CAE-Team Project	POL 2
10							Signals and Systems VL	'L 3	Practical Course: Measurem	nent and PR 2		
11	Electrical Engineering I: Direct Curren	t					Signals and Systems HU	IÜ 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				Simulation of Dynamic Syst	ems and	Aeronautical Systems	
14	Electrical Engineering I: Direct Current	UE 2	Technical Thermodynamics I	VL 2	Analysis III	VL 2			Reliability Simulation of Dynamic Syst	ems VL 2	Air Transportation Systems	VL 2
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		Reliability of Dynamic Syste		Fundamentals of Aircraft Systems Fundamentals of Aircraft Systems	VL 2 UE 1
16				02 .	Differential Equations 1	VL 2	Fluid Mechanics VL	'L 3	Simulation of Dynamic Syst		Air Transportation Systems	HÜ 1
17	Mathematics I				Differential Equations 1	UE 1	Fluid Mechanics HU	IÜ 1	Reliability of Dynamic Syste	ems UE 1		
		VL 2			Differential Equations 1	HÜ 1						
18	, and the second s	UE 1										
19	Linear Algebra I	HÜ 1	Mechanics II: Mechanics of Materials						Advanced Mechanical Desig	<u> </u>	Bachelor Thesis	
20	Analysis I	VL 2	Mechanics II	VL 2					Advanced Mechanical Desig	gn Project TT 4		
21		UE 1	Mechanics II	UE 2	Mechanics III (Hydrostatics, Kinem	atics,	Mechanics IV (Kinetics II, Oscillations,					
22	Analysis I	HÜ 1			Kinetics I)		Analytical Mechanics, Multibody System	ns)				
					Mechanics III	VL 3		'L 3				
23					Mechanics III	UE 2		1E 2				
24					Mechanics III	HÜ 1	Mechanics IV HÚ	IÜ 1				
25	Mechanics I (Statics)		Mathematics II									
26		VL 2	Linear Algebra II	VL 2								
27		UE 2 HÜ 1	Linear Algebra II Linear Algebra II	UE 1 HÜ 1	Mechanical Engineering: Design (p	part 1)	Fundamentals of Production and Quality					
28	Weendilles I		Analysis II	HU I VL 2	Embodiment Design and 3D-CAD	VL 2	Management					
			Analysis II	HÜ 1	Mechanical Design Project I	TT 3		'L 2				
29			Analysis II	UE 1			Quality Management VL	'L 2				
30					Fundamentals of Materials Science							
$\rightarrow$												
31					Fundamentals of Materials Science							
31 32					Pundamentals of Materials Science Physical and Chemical Basics of	VL 2						

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.