

# Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w20)

Sample course plan A Bachelor General Engineering Science (German program, 7 semester) (AIWBS(7))

Specialisation Mechanical Engineering, Focus Aircraft Systems Engineering

1	Chemistry		Electrical Engineering II: Alternating Current Networks and Basic Devices		Technical Thermodynamics II		Signals and Systems		Introduction to Control Systems		Foundations of Management		Advanced Internship AIW/ ES													
2	Chemistry I+II		VL 4	Electrical Engineering II: Alternating Current Networks and Basic Devices	VL 3	Technical Thermodynamics II	VL 2	Signals and Systems	VL 3	Introduction to Control Systems	VL 2	Introduction to Management	VL 3	Advanced Internship AIW/ ES: Preparation	SE 1											
3	Chemistry I+II		HÜ 2		VL 3	Technical Thermodynamics II	HÜ 1	Signals and Systems	GÜ 2	Introduction to Control Systems	GÜ 2	Management Tutorial	GÜ 2	Advanced Intership AIW/ ES: Internship-accompanying Seminar	SE 1											
4					GÜ 2		GÜ 1																			
5																										
6																										
7	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields			Fundamentals of Mechanical Engineering Design			Mathematics III			Fluid Dynamics			Measurement Technology for Mechanical Engineers													
8	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields			VL 3	Fundamentals of Mechanical Engineering Design			VL 2	Fluid Mechanics			VL 3	Measurement Technology for Mechanical Engineering													
9	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields			GÜ 2	Fundamentals of Mechanical Engineering Design			HÜ 1	Fluid Mechanics			HÜ 2	Measurement Technology for Mechanical Engineering													
10	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields				Fundamentals of Mechanical Engineering Design			VL 2	Differential Equations 1			VL 2	Measurement Technology for Mechanical Engineering													
11								VL 2	Differential Equations 1			GÜ 1	HÜ 1													
12								HÜ 1	Differential Equations 1			HÜ 1	Practical Course: Measurement and Control Systems													
13	Mathematics I			Technical Thermodynamics I			Mechanics III (Dynamics)			Mechanics IV (Oscillations, Analytical Mechanics, Multibody Systems, Numerical Mechanics)			Advanced Mechanical Design Project			Aeronautical Systems										
14	Linear Algebra I			VL 2	Technical Thermodynamics I					VL 2	Mechanics IV			VL 3	Advanced Mechanical Design Project			PBL 4	Air Transportation Systems							
15	Linear Algebra I			GÜ 1	Technical Thermodynamics I					HÜ 1	Mechanics IV			GÜ 2					Fundamentals of Aircraft Systems							
16	Linear Algebra I			HÜ 1	Technical Thermodynamics I					GÜ 1	Mechanics IV			HÜ 1					Fundamentals of Aircraft Systems							
17	Analysis I			VL 2							Mechanics IV			HÜ 1					Air Transportation Systems							
18	Analysis I			GÜ 1																						
19	Analysis I			HÜ 1																						
20					Mechanics II: Mechanics of Materials						Advanced Mechanical Engineering Design (part 2)			Computer Engineering			Fundamentals of Production and Quality Management			Bachelor Thesis						
21	Mechanics I (Statics)			Mechanics II			VL 2	Advanced Mechanical Engineering Design (part 1)			Advanced Mechanical Engineering Design II			VL 2	Computer Engineering			VL 3	Production Process Organization				VL 2			
22	Mechanics I			GÜ 2	Mechanics II			HÜ 2	Design I			Design II			HÜ 2	Computer Engineering			GÜ 1				Quality Management			VL 2
23	Mechanics I			HÜ 1					Design I			Design II														
24									Design I			Design II														
25					Mathematics II						Mechanical Engineering: Design (part 1)			Fundamentals of Materials Science (part 2)			Computational Fluid Dynamics I									
26					Linear Algebra II			VL 2	Embodiment Design and 3D-CAD			VL 2	Fundamentals of Materials Science II			VL 2	Computational Fluid Dynamics I			VL 2						
27					Linear Algebra II			GÜ 1	Mechanical Design Project I			PBL 3					Computational Fluid Dynamics I			HÜ 2						
28	Programming in C			VL 1	Linear Algebra II			HÜ 1																		
29	Physics for Engineers (AIW)				Analysis II			VL 2																		
30	Physics for Engineers			PR 1	Analysis II			HÜ 1																		
31	Physics for Engineers			GÜ 1	Analysis II			GÜ 1																		
32																										
Non-technical Courses for Bachelors (from catalogue) - 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.

