

Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w19)

Sample course plan B 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	VL 2	Electrical Engineering II: Alternating Current Networks and Basic Devices		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 II	VL 2	Current Networks and Basic Devices		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	Chemistry I	HÜ 1												
5	Chemistry II	HÜ 1	Electrical Engineering II: Alternating Current Networks and Basic Devices											
6														
7	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields		Fundamentals of Mechanical Engineering Design		Mathematics III		Fluid Dynamics		Computer Engineering		Integrated Product Development and Lightweight Design			
8	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	VL 3	Fundamentals of Mechanical Engineering Design		Analysis III	VL 2	Fluid Mechanics	VL 3	Computer Engineering	VL 3	Integrated Product Development I	VL 2		
9	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	GÜ 2	Fundamentals of Mechanical Engineering Design		Analysis III	GÜ 1	Fluid Mechanics	HÜ 2	Computer Engineering	GÜ 1	Development of Lightweight Design Products	VL 2		
10	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields				Differential Equations 1	VL 2					CAE-Team Project	PBL 2		
11					Differential Equations 1	GÜ 1								
12					Differential Equations 1	HÜ 1								
13	Mathematics I		Technical Thermodynamics I				Mechanics IV (Oscillations, Analytical Mechanics, Multibody Systems, Numerical Mechanics)		Measurement Technology for Mechanical Engineers		Aeronautical Systems			
14	Linear Algebra I	VL 2	Technical Thermodynamics I				Mechanics IV		VL 3	Measurement Technology for Mechanical Engineering	VL 2	Air Transportation Systems	VL 2	
15	Linear Algebra I	GÜ 1	Technical Thermodynamics I				Mechanics IV		GÜ 2	Measurement Technology for Mechanical Engineering	HÜ 1	Fundamentals of Aircraft Systems	VL 2	
16	Linear Algebra I	HÜ 1	Technical Thermodynamics I				Mechanics IV		HÜ 1	Engineering		Fundamentals of Aircraft Systems	GÜ 1	
17	Analysis I	VL 2			Mechanics III (Dynamics)		Mechanics IV			Practical Course: Measurement and Control Systems	PR 2	Air Transportation Systems	HÜ 1	
18	Analysis I	GÜ 1			Mechanics III		Mechanics IV							
19	Analysis I	HÜ 1			Mechanics III		Mechanics IV							
20			Mechanics II: Mechanics of Materials				Mechanical Engineering: Design (part 2)		Advanced Mechanical Design Project		Fundamentals of Production and Quality Management		Bachelor Thesis	
21	Mechanics I (Statics)		Mechanics II		Mechanical Engineering: Design (part 1)		Team Project Design Methodology		PBL 2	Advanced Mechanical Design Project	PBL 4	Production Process Organization	VL 2	
22	Mechanics I	VL 2	Mechanics II		Embodiment Design and 3D-CAD		Mechanical Design Project II		PBL 3			Quality Management	VL 2	
23	Mechanics I	GÜ 2			Mechanical Design Project I									
24	Mechanics I	HÜ 1					Fundamentals of Materials Science (part 2)							
25					Fundamentals of Materials Science (part 1)		Fundamentals of Materials Science II		VL 2					
26					Fundamentals of Materials Science I		Advanced Mechanical Engineering Design (part 2)							
27	Physics for Engineers (AIW)		Mathematics II		Physical and Chemical Basics of Materials Science		Advanced Mechanical Engineering Design II		VL 2	Numerical Mathematics I		VL 2		
28	Physics for Engineers	VL 2	Linear Algebra II		Science		Design II			Numerical Mathematics I		GÜ 2		
29	Physics for Engineers	GÜ 1	Linear Algebra II				Advanced Mechanical Engineering Design II		HÜ 2					
30			Analysis II											
31			Analysis II											
32			Analysis II											

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.

