

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

Legend:

Core qualification Compulsory	Specialisation Compulsory	Focus Compulsory	Thesis Compulsory
Core qualification Elective Compulsory	Specialisation Elective Compulsory	Focus Elective Compulsory	Interdisciplinary complement

LP	Semester 1	Form	Semester 2	Form	Semester 3	Form	Semester 4	Form	Semester 5	Form	Semester 6	Form	Semester 7	Form											
1	Chemistry	VL 2	Electrical Engineering II: Alternating Current Networks and Basic Devices	VL 3	Technical Thermodynamics II	VL 2	Mechanical Engineering: Design (part 2)	PBL2	Computer Engineering	VL 3	Foundations of Management	VL 3	Advanced Internship GES												
2														Chemistry I	HÜ 1	Electrical Engineering II: Alternating Current Networks and Basic Devices	HÜ 1	Technical Thermodynamics II	HÜ 1	Team Project Design Methodology	UE 1	Computer Engineering	UE 1	Introduction to Management	HÜ 2
3														Chemistry II	HÜ 1	Electrical Engineering II: Alternating Current Networks and Basic Devices	HÜ 1	Technical Thermodynamics II	HÜ 1	Mechanical Design Project II		Computer Engineering		Management Tutorial	
4														Chemistry I		Electrical Engineering II: Alternating Current Networks and Basic Devices		Technical Thermodynamics II							
5														Chemistry II		Electrical Engineering II: Alternating Current Networks and Basic Devices		Technical Thermodynamics II		Fundamentals of Materials Science (part 2)					
6																Electrical Engineering II: Alternating Current Networks and Basic Devices		Technical Thermodynamics II		Fundamentals of Materials Science II	VL 2				
7	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	VL 3	Fundamentals of Mechanical Engineering Design	VL 2	Mathematics III	VL 2	Advanced Mechanical Engineering Design (part 2)	VL 2	Introduction to Control Systems	VL 2	Integrated Product Development and Lightweight Design	VL 2													
8													Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	HÜ 2	Fundamentals of Mechanical Engineering Design	HÜ 2	Analysis III	UE 1	Advanced Mechanical Engineering Design II	HÜ 2	Introduction to Control Systems	UE 2	Integrated Product Development I	VL 2	
9													Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	UE 2	Fundamentals of Mechanical Engineering Design	UE 2	Analysis III	HÜ 1	Advanced Mechanical Engineering Design II	HÜ 2	Introduction to Control Systems		Development of Lightweight Design Products	VL 2	
10													Electrical Engineering I: Direct Current Networks and Electromagnetic Fields		Fundamentals of Mechanical Engineering Design		Differential Equations 1	VL 2	Fluid Dynamics				Development of Lightweight Design Products	VL 2	
11													Electrical Engineering I: Direct Current Networks and Electromagnetic Fields		Fundamentals of Mechanical Engineering Design		Differential Equations 1	UE 1	Fluid Mechanics	VL 3			CAE-Team Project	PBL2	
12													Electrical Engineering I: Direct Current Networks and Electromagnetic Fields		Fundamentals of Mechanical Engineering Design		Differential Equations 1	HÜ 1	Fluid Mechanics	HÜ 2					
13	Mathematics I	VL 2	Technical Thermodynamics I	VL 2	Mechanics III (Hydrostatics, Kinematics, Kinetics I)	VL 3	Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)	VL 3	Measurement Technology for Mechanical and Process Engineers	VL 2	Aeronautical Systems	VL 2													
14													Linear Algebra I	UE 1	Technical Thermodynamics I	HÜ 1	Mechanics III	UE 2	Mechanics IV	VL 3	Measurement Technology for Mechanical and Process Engineers		Air Transportation Systems	VL 2	
15													Linear Algebra I	UE 1	Technical Thermodynamics I	HÜ 1	Mechanics III	UE 2	Mechanics IV	UE 2	Measurement Technology for Mechanical and Process Engineers		Fundamentals of Aircraft Systems	VL 2	
16													Linear Algebra I	HÜ 1	Technical Thermodynamics I	HÜ 1	Mechanics III	HÜ 1	Mechanics IV	HÜ 1	Measurement Technology for Mechanical and Process Engineers		Fundamentals of Aircraft Systems	UE 1	
17													Analysis I	VL 2	Technical Thermodynamics I	UE 1	Mechanics III	HÜ 1	Mechanics IV	HÜ 1	Measurement Technology for Mechanical and Process Engineers		Fundamentals of Aircraft Systems	UE 1	
18													Analysis I	UE 1	Technical Thermodynamics I	UE 1	Mechanics III	HÜ 1	Mechanics IV	HÜ 1	Measurement Technology for Mechanical and Process Engineers		Air Transportation Systems	HÜ 1	
19	Mathematics I (Statics)	VL 2	Mechanics II: Mechanics of Materials	VL 2	Mechanical Engineering:		Signals and Systems		Advanced Mechanical Design Project	PBL4	Fundamentals of Production and Quality Management	VL 2													
20													Linear Algebra I	UE 2	Mechanics II	UE 2	Mechanical Engineering:		Signals and Systems		Advanced Mechanical Design Project		Production Process Organization	VL 2	
21													Linear Algebra I	UE 2	Mechanics II	UE 2	Mechanical Engineering:		Signals and Systems		Advanced Mechanical Design Project		Production Process Organization	VL 2	
22	Analysis I	HÜ 1	Mechanics II	UE 2	Mechanical Engineering:		Signals and Systems		Advanced Mechanical Design Project		Production Process Organization	VL 2													

23	Mechanics I Mechanics I Mechanics I	VL 2 UE 2 HÜ 1	Mechanics II	HÜ 2	Design (part 1) Embodiment Design and 3D-CAD Mechanical Design Project I	VL 2 PBL3	Signals and Systems Signals and Systems	VL 3 UE 2		Quality Management	VL 2
24											
25											
26			Mathematics II		Fundamentals of Materials Science (part 1)						
27	Programming in C Programming in C Programming in C	VL 1 VL 1 PR 1	Linear Algebra II Linear Algebra II Linear Algebra II	VL 2 UE 1 HÜ 1	Fundamentals of Materials Science I Physical and Chemical Basics of Materials Science	VL 2 VL 2				Simulation and Design of Mechatronic Systems Simulation and Design of Mechatronic Systems Simulation and Design of Mechatronic Systems Simulation and Design of Mechatronic Systems	VL 2 HÜ 1 PR 1
28			Analysis II	VL 2							
29			Analysis II	HÜ 1	Advanced Mechanical Engineering Design (part 1)						
30	Physics for Engineers (AIW) Physics for Engineers Physics for Engineers	VL 2 UE 1	Analysis II	UE 1	Advanced Mechanical Engineering Design I Advanced Mechanical Engineering Design I	VL 2 HÜ 2					
31											
32											

Nontechnical Complementary 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.