

# Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w22)

Sample course plan B Bachelor General Engineering Science (German program, 7 semester) (AIWBS(7)) Dual study program

Legend:

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

Specialisation Mechanical Engineering, Focus Theoretical Mechanical Engineering									
1	<b>Chemistry</b>			<b>Electrical Engineering II: Alternating Current Networks and Basic Devices</b>	<b>Technical Thermodynamics II</b>	<b>Signals and Systems</b>	<b>Introduction to Control Systems</b>	<b>Foundations of Management</b>	<b>Advanced Internship AIW/ ES</b>
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	
3	Chemistry I+II HÜ 2			Electrical Engineering II: Alternating Current Networks and Basic Devices GÜ 2	Technical Thermodynamics II HÜ 1	Signals and Systems GÜ 2	Introduction to Control Systems GÜ 2	Management Tutorial GÜ 2	
4					Technical Thermodynamics II GÜ 1				
5									
6									
7	<b>Electrical Engineering I: Direct Current Networks and Electromagnetic Fields</b>	<b>Fundamentals of Mechanical Engineering Design</b>		<b>Mathematics III</b>		<b>Practical module 4 (dual study program, Bachelor's degree)</b>	<b>Practical module 5 (dual study program, Bachelor's degree)</b>	<b>Modeling, Simulation and Optimization (EN)</b>	
8	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields VL 3	Fundamentals of Mechanical Engineering Design VL 2		Analysis III VL 2		Practical term 4 0	Practical term 5 0	Modeling, Simulation and Optimization IV 4	
9	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields GÜ 2	Fundamentals of Mechanical Engineering Design HÜ 2		Analysis III GÜ 1					
10				Analysis III HÜ 1					
11				Differential Equations 1 VL 2					
12				Differential Equations 1 GÜ 1					
13				Differential Equations 1 HÜ 1					
14	<b>Mathematics I</b>	<b>Technical Thermodynamics I</b>				<b>Fluid Dynamics</b>	<b>Measurement Technology for Mechanical Engineers</b>	<b>Electrical Machines and Actuators</b>	
15	Mathematics I VL 4	Technical Thermodynamics I VL 2				Fluid Mechanics VL 3	Measurement Technology for Mechanical Engineers VL 2	Electrical Machines and Actuators VL 3	
16	Mathematics I HÜ 2	Technical Thermodynamics I HÜ 1				Fluid Mechanics HÜ 2	Measurement Technology for Mechanical Engineers PR 2	Electrical Machines and Actuators HÜ 2	
17	Mathematics I GÜ 2	Technical Thermodynamics I GÜ 1					Measurement Technology for Mechanical Engineers PR 2		
18							Practical Course: Measurement and Control Systems PR 2		
19									
20		<b>Mathematics II</b>		<b>Practical module 3 (dual study program, Bachelor's degree)</b>					
21		Mathematics II VL 4		Practical term 3 0					
22		Mathematics II HÜ 2							
23		Mathematics II GÜ 2							
24	<b>Computer Science for Engineers - Introduction and Overview</b>								
25	Computer Science for Engineers - Introduction and Overview VL 3								
26	Computer Science for Engineers - Introduction and Overview GÜ 2								
27									
28	<b>Practical module 1 (dual study program, Bachelor's degree)</b>	<b>Practical module 2 (dual study program, Bachelor's degree)</b>		<b>Engineering Mechanics III (Dynamics)</b>					
29	Practical term 1 0	Practical term 2 0		Engineering Mechanics III VL 3					
30				Engineering Mechanics III GÜ 2					
31				Engineering Mechanics III HÜ 1					
32									
33	<b>Engineering Mechanics I (Stereostatics)</b>	<b>Engineering Mechanics II (Elastostatics)</b>							
34	Engineering Mechanics I VL 2	Engineering Mechanics II VL 2							
35	Engineering Mechanics I GÜ 2	Engineering Mechanics II GÜ 2							
36	Engineering Mechanics I HÜ 1	Engineering Mechanics II HÜ 2							
37									
38									

Linking theory and practice (dual study program, Bachelor's degree) (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.

