

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

Sample course plan - 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 Biomechanics				
1	Chemistry	Electrical Engineering II: Alternating Current Networks and Basic Devices	Technical Thermodynamics II	Signals and Systems
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
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
4			Technical Thermodynamics II GÜ 1	
5				
6				
7	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	Fundamentals of Mechanical Engineering Design	Mathematics III	Practical module 4 (dual study program, Bachelor's degree)
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
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	Mathematics I	Technical Thermodynamics I	Practical module 3 (dual study program, Bachelor's degree)	Fluid Dynamics
15	Mathematics I VL 4	Technical Thermodynamics I VL 2	Practical term 3 0	Fluid Mechanics VL 3
16	Mathematics I HÜ 2	Technical Thermodynamics I HÜ 1		Fluid Mechanics HÜ 2
17	Mathematics I GÜ 2	Technical Thermodynamics I GÜ 1		
18				
19				
20		Mathematics II		Measurement Technology for Mechanical Engineers
21	Computer Science for Engineers - Introduction and Overview	Mathematics II VL 4		Measurement Technology for Mechanical Engineering VL 2
22	Computer Science for Engineers - Introduction and Overview VL 3	Mathematics II HÜ 2		Measurement Technology for Mechanical Engineering PR 2
23	Computer Science for Engineers - Introduction and Overview GÜ 2	Mathematics II GÜ 2		Measurement Technology for Mechanical Engineering PR 2
24			Engineering Mechanics III (Dynamics)	NUMERICAL MATHEMATICS I
25			Engineering Mechanics III VL 3	Numerical Mathematics I VL 2
26			Engineering Mechanics III GÜ 2	Numerical Mathematics I GÜ 2
27			Engineering Mechanics III HÜ 1	
28	Practical module 1 (dual study program, Bachelor's degree)	Practical module 2 (dual study program, Bachelor's degree)		MED I: Introduction to Anatomy
29	Practical term 1 0	Practical term 2 0		Introduction to Anatomy VL 2
30			Advanced Mechanical Engineering Design (part 1)	MED II: Introduction to Biochemistry and Molecular Biology
31			Advanced Mechanical Engineering Design I VL 2	Introduction to Biochemistry and Molecular Biology VL 2
32			Advanced Mechanical Engineering Design I HÜ 2	
33	Engineering Mechanics I (Stereostatics)	Engineering Mechanics II (Elastostatics)	Mechanical Engineering: Design (part 1)	MED I: Introduction to Radiology and Radiation Therapy
34	Engineering Mechanics I VL 2	Engineering Mechanics II VL 2	Embodiment Design and 3D-CAD Introduction and Practical Training VL 2	Introduction to Radiology and Radiation Therapy VL 2
35	Engineering Mechanics I GÜ 2	Engineering Mechanics II GÜ 2	Mechanical Design Project I PBL 3	
36	Engineering Mechanics I HÜ 1	Engineering Mechanics II HÜ 2		BIO I: Implants and Fracture Healing
37			Fundamentals of Materials Science	Implants and Fracture Healing VL 2
38			Fundamentals of Materials Science II VL 2	
			Fundamentals of Materials Science I VL 2	
			Physical and Chemical Basics of Materials Science VL 2	
				Advanced Mechanical Engineering Design (part 2)
				Advanced Mechanical Engineering Design II VL 2
				Advanced Mechanical Engineering Design II HÜ 2
				Mechanical Engineering: Design (part 2)
				Team Project Design Methodology PBL 2
				Mechanical Design Project II PBL 3

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

