

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

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

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

Specialisation	Mechanical Engineering	Focus Aircraft Systems Engineering	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7
			FormHrs/wk	FormHrs/wk	FormHrs/wk	FormHrs/wk	FormHrs/wk
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: SE 1
3	Chemistry I+II HÜ 2	Electrical Engineering II: Alternating Current Networks and Basic Devices VL 3	Technical Thermodynamics II HÜ 1	Signals and Systems GÜ 2	Introduction to Control Systems GÜ 2	Management Tutorial GÜ 2	Preparation
4		Electrical Engineering II: Alternating Current Networks and Basic Devices GÜ 2	Technical Thermodynamics II GÜ 1				Advanced Internship AIW/ ES: Internship-accompanying Seminar SE 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	Integrated Product Development and Lightweight Design	
8	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields VL 3	Fundamentals of Mechanical Engineering Design VL 2	Analysis III VL 2	Fluid Mechanics VL 3	Measurement Technology for Mechanical Engineers VL 2	Integrated Product Development I VL 2	
9	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields HÜ 2	Fundamentals of Mechanical Engineering Design HÜ 2	Analysis III GÜ 1	Fluid Mechanics HÜ 2	Measurement Technology for Mechanical Engineers HÜ 1	Development of Lightweight Design Products VL 2	
10	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields GÜ 2	Fundamentals of Mechanical Engineering Design HÜ 2	Differential Equations 1 VL 2		Measurement Technology for Mechanical Engineers HÜ 1	CAE-Team Project PBL 2	
11			Differential Equations 1 GÜ 1		Practical Course: Measurement and Control Systems PR 2		
12			Differential Equations 1 HÜ 1				
13	Mathematics I	Technical Thermodynamics I		Computational Mechanics	Advanced Mechanical Design Project	Aeronautical Systems	
14	Mathematics I VL 4	Technical Thermodynamics I VL 2		Computational Multibody Dynamics IV 2	Advanced Mechanical Design Project PBL 4	Air Transportation Systems VL 2	
15	Mathematics I HÜ 2	Technical Thermodynamics I HÜ 1	Engineering Mechanics III (Dynamics)	Computational Mechanics GÜ 2		Fundamentals of Aircraft Systems VL 2	
16	Mathematics I GÜ 2	Technical Thermodynamics I GÜ 1	Engineering Mechanics III VL 3	Computational Structural Mechanics IV 2		Fundamentals of Aircraft Systems GÜ 1	
17			Engineering Mechanics III GÜ 2			Air Transportation Systems HÜ 1	
18			Engineering Mechanics III HÜ 1				
19		Mathematics II		Advanced Mechanical Engineering Design (part 2)	Computational Fluid Dynamics I	Fundamentals of Production and Quality Management	Bachelor Thesis
20		Mathematics II VL 4		Advanced Mechanical Engineering VL 2	Computational Fluid Dynamics I VL 2	Production Process Organization VL 2	
21	Computer Science for Engineers - Introduction and Overview	Mathematics II HÜ 2	Advanced Mechanical Engineering Design (part 1)	Design II HÜ 2	Computational Fluid Dynamics I HÜ 2	Quality Management VL 2	
22	Computer Science for Engineers - Introduction and Overview VL 3	Mathematics II GÜ 2	Advanced Mechanical Engineering VL 2	Advanced Mechanical Engineering HÜ 2			
23	Computer Science for Engineers - Introduction and Overview GÜ 2		Design I	Mechanical Engineering: Design (part 2)			
24			Advanced Mechanical Engineering HÜ 2	Team Project Design Methodology PBL 2			
25			Design I	Mechanical Design Project II PBL 3			
26			Mechanical Engineering: Design (part 1)				
27	Engineering Mechanics I (Stereostatics)	Engineering Mechanics II (Elastostatics)	Embodiment Design and 3D-CAD VL 2	Fundamentals of Materials Science (part 2)		Computer Science for Engineers - Programming Concepts, Data Handling & Communication	
28	Engineering Mechanics I VL 2	Engineering Mechanics II VL 2	Introduction and Practical Training VL 2	Fundamentals of Materials Science II VL 2		Computer Science for Engineers - Programming Concepts, Data Handling & Communication VL 3	
29	Engineering Mechanics I GÜ 2	Engineering Mechanics II GÜ 2	Mechanical Design Project I PBL 3			Computer Science for Engineers - Programming Concepts, Data Handling & Communication GÜ 2	
30	Engineering Mechanics I HÜ 1	Engineering Mechanics II HÜ 2					
31							
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.

