

Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w21)

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: Green Technologies, Focus Renewable Energy			Semester 3	Semester 4	Semester 5	Semester 6	Semester 7
FormHrs/wk	FormHrs/wk	FormHrs/wk	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 GÜ 2	Technical Thermodynamics II HÜ 1	Signals and Systems GÜ 2	Introduction to Control Systems GÜ 2	Management Tutorial GÜ 2	Preparation
4							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	Fundamentals of Fluid Mechanics	Heat and Mass Transfer	Green Technologies II (part 2)	
8	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields VL 3	Fundamentals of Mechanical Engineering Design VL 2	Analysis III VL 2	Fundamentals of Fluid Mechanics VL 2	Heat and Mass Transfer VL 2	Practical Exercise Environmental Technology PR 1	
9	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields GÜ 2	Fundamentals of Mechanical Engineering Design HÜ 2	Analysis III GÜ 1	Fluid Mechanics for Process Engineering HÜ 2	Heat and Mass Transfer GÜ 1		
10			Analysis III HÜ 1		Heat and Mass Transfer HÜ 1		
11			Differential Equations 1 VL 2			Phase Equilibria Thermodynamics	
12			Differential Equations 1 GÜ 1			Phase Equilibria Thermodynamics VL 2	
13	Mathematics I	Technical Thermodynamics I	Differential Equations 1 HÜ 1	Sanitary Engineering I	Green Technologies II (part 1)	Phase Equilibria Thermodynamics GÜ 1	
14	Linear Algebra I VL 2	Technical Thermodynamics I VL 2		Wastewater Disposal VL 2	Environmental Technologie VL 2	Phase Equilibria Thermodynamics HÜ 1	
15	Linear Algebra I GÜ 1	Technical Thermodynamics I HÜ 1	Mechanics III (Dynamics)	Wastewater Disposal HÜ 1	Environmental Assessment VL 2		
16	Linear Algebra I HÜ 1	Technical Thermodynamics I GÜ 1	Mechanics III VL 3	Drinking Water Supply VL 2	Environmental Assessment GÜ 1	Climate change impact & mitigation	
17	Analysis I VL 2		Mechanics III GÜ 2	Drinking Water Supply HÜ 1		Technical measures to mitigate climate change VL 2	
18	Analysis I GÜ 1		Mechanics III HÜ 1		Thermal Separation Processes	Technical measures to mitigate climate change GÜ 2	
19	Analysis I HÜ 1	Mechanics II: Mechanics of Materials		Conventional Energy Systems and Energy Economics	Thermal Separation Processes VL 2	Metereology of climate change VL 2	
20		Mechanics II VL 2	Measurement Technology for VT/ BVT	Energy systems and markets VL 2	Thermal Separation Processes GÜ 2		Bachelor Thesis
21	Mechanics I (Statics)	Mechanics II GÜ 2	Measurement Technology VL 2	Fossil Energy Sources VL 3	Thermal Separation Processes HÜ 1		
22	Mechanics I VL 2	Mechanics II HÜ 2	Physical Fundamentals of Measurement Technology VL 2	Fossil Energy Sources HÜ 1	Separation Processes PR 1		
23	Mechanics I GÜ 2		Practical Course Measurement Technology PR 2				
24	Mechanics I HÜ 1	Mathematics II		Renewable Energies	Electrical Power Systems I: Introduction to Electrical Power Systems		
25		Linear Algebra II VL 2	Green Technologies I	Renewable Energies I VL 2	Electrical Power Systems I: Introduction to Electrical Power Systems VL 3		
26		Linear Algebra II GÜ 1	Meteorology and Climate Systems - Introduction VL 2	Renewable Energies II VL 2	Electrical Power Systems I: Introduction to Electrical Power Systems GÜ 2		
27	Computer Science for Engineers - Introduction and Overview	Linear Algebra II HÜ 1	Introduction to Green Technologies SE 2	Renewable Energies I HÜ 1			
28	Computer Science for Engineers - Introduction and Overview VL 3	Analysis II VL 2	Meteorology and Climate Systems - Introduction GÜ 2	Renewable Energies II HÜ 1			
29	Computer Science for Engineers - Introduction and Overview GÜ 2	Analysis II HÜ 1					
30		Analysis II GÜ 1					
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.

