

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: 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
1	Chemistry	Electrical Engineering II: Alternating Current Networks and Basic Devices	Technical Thermodynamics II	Signals and Systems	Introduction to Control 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	Introduction to Control Systems VL 2
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
4					
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
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
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	Fundamentals on Fluid Mechanics GÜ 2	Heat and Mass Transfer HÜ 1
11			Differential Equations 1 VL 2		
12			Differential Equations 1 GÜ 1		
13	Mathematics I	Technical Thermodynamics I	Sanitary Engineering I	Green Technologies II (part 1)	Phase Equilibria Thermodynamics
14	Mathematics I VL 4	Technical Thermodynamics I VL 2	Wastewater Disposal VL 2	Environmental Technologie VL 2	Phase Equilibria Thermodynamics VL 2
15	Mathematics I HÜ 2	Technical Thermodynamics I HÜ 1	Wastewater Disposal HÜ 1	Pollutant analysis VL 2	Phase Equilibria Thermodynamics GÜ 1
16	Mathematics I GÜ 2	Technical Thermodynamics I GÜ 1	Drinking Water Supply VL 2		Phase Equilibria Thermodynamics HÜ 1
17			Drinking Water Supply HÜ 1		
18					
19					
20		Mathematics II	Conventional Energy Systems and Energy Industry	Thermal Separation Processes	Climate change impact & mitigation
21	Computer Science for Engineers - Introduction and Overview	Mathematics II VL 4	Power Industry VL 1	Thermal Separation Processes VL 2	Technical measures to mitigate climate change VL 2
22	Computer Science for Engineers - Introduction and Overview VL 3	Mathematics II HÜ 2	Energy markets and energy trading VL 2	Thermal Separation Processes GÜ 2	Technical measures to mitigate climate change GÜ 2
23	Computer Science for Engineers - Introduction and Overview GÜ 2	Mathematics II GÜ 2	Fossil Energy Systems VL 2	Thermal Separation Processes HÜ 1	Technical measures to mitigate climate change HÜ 1
24			Fossil Energy Systems HÜ 1	Separation Processes PR 1	Metereology of climate change VL 2
25					
26			Renewable Energies	Electrical Power Systems I: Introduction to Electrical Power Systems	
27	Engineering Mechanics I (Stereostatics)	Engineering Mechanics II (Elastostatics)	Renewable Energies I VL 2	Electrical Power Systems I: Introduction to Electrical Power Systems VL 3	
28	Engineering Mechanics I VL 2	Engineering Mechanics II VL 2	Renewable Energies II VL 2	Electrical Power Systems I: Introduction to Electrical Power Systems GÜ 2	
29	Engineering Mechanics I GÜ 2	Engineering Mechanics II GÜ 2	Renewable Energies I HÜ 1		
30	Engineering Mechanics I HÜ 1	Engineering Mechanics II HÜ 2	Renewable Energies II HÜ 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.

