

Course of Study Green Technologies: Energy, Water, Climate (Study Cohort w24)

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 S Bachelor Green Technologies: Energy, Water, Climate (GTBS)

Specialisation Energy Systems / Renewable Energies

Year	Course	Credits	Year	Course	Credits	Year	Course	Credits	Year	Course	Credits		
1	Mathematics I			Technical Thermodynamics I			Basics of Electrical Engineering			Fundamentals of Fluid Mechanics			System Integration Renewable Energies (part 2)
2	Mathematics I VL 4			Technical Thermodynamics I VL 2			Basics of Electrical Engineering VL 3			Fundamentals of Fluid Mechanics VL 2			System Integration Renewable Energies II VL 2
3	Mathematics I HÜ 2			Technical Thermodynamics I HÜ 1			Basics of Electrical Engineering GÜ 2			Fluid Mechanics for Process Engineering HÜ 2			System Integration Renewable Energies II GÜ 1
4	Mathematics I GÜ 2			Technical Thermodynamics I GÜ 1						Fundamentals on Fluid Mechanics GÜ 2			
5													
6													
7				Mathematics II			Technical Thermodynamics II			Sanitary Engineering I			Climate change impact & mitigation
8				Mathematics II VL 4			Technical Thermodynamics II VL 2			Wastewater Disposal VL 2			Technical measures to mitigate greenhouse gas emissions VL 2
9				Mathematics II HÜ 2			Technical Thermodynamics II HÜ 1			Wastewater Disposal HÜ 1			Technical measures to mitigate greenhouse gas emissions GÜ 2
10	General and Inorganic Chemistry			Mathematics II GÜ 2			Technical Thermodynamics II GÜ 1			Drinking Water Supply VL 2			Basics of climate change and its effects VL 2
11	General and Inorganic Chemistry VL 3									Drinking Water Supply HÜ 1			
12	Fundamentals in Inorganic Chemistry PR 3												
13	Fundamentals in Inorganic Chemistry GÜ 1												
14													
15	Computer Science for Engineers - Introduction and Overview			Organic Chemistry			Mathematics III			Conventional Energy Systems and Energy Industry			Economic and environmental project assessment
16	Computer Science for Engineers - Introduction and Overview VL 3			Organic Chemistry VL 2			Analysis III VL 2			Power Industry VL 1			Basics of Environmental Project Assessment VL 2
17	Computer Science for Engineers - Introduction and Overview PR 2			Organic Chemistry PR 2			Analysis III GÜ 1			Energy markets and energy trading VL 2			Case studies economic and environmental project assessment GÜ 1
18	Computer Science for Engineers - Introduction and Overview GÜ 2			Organic Chemistry GÜ 2			Analysis III HÜ 1			Fossil Energy Systems VL 2			Basics of economic project assessment VL 2
19							Differential Equations 1 VL 2			Fuels I VL 1			
20							Differential Equations 1 GÜ 1						
21	Green Technologies I			Engineering Mechanics II (Elastostatics)			Differential Equations 1 HÜ 1			Renewable Energies			Electrical Power Systems I: Introduction to Electrical Power Systems
22	Meteorology and Climate Systems - Introduction VL 2			Engineering Mechanics II VL 2			Measurement Technology VL 2			Renewable Energies I VL 2			Electrical Power Systems I: Introduction to Electrical Power Systems VL 3
23	Introduction Green Technologies SE 2			Engineering Mechanics II GÜ 2			Physical Fundamentals of Measurement Technology VL 2			Renewable Energies II VL 2			Electrical Power Systems I: Introduction to Electrical Power Systems GÜ 2
24	Meteorology and Climate Systems - Introduction GÜ 2			Engineering Mechanics II HÜ 2			Practical Course Measurement Technology PR 2			Renewable Energies I HÜ 1			
25										Fuels II VL 1			
26													
27	Engineering Mechanics I (Stereostatics)									Green Technologies II (part 2)			Green Technologies III
28	Engineering Mechanics I VL 2									Practical Exercise Environmental Technology PR 1			Scientific Work and Writing SE 2
29	Engineering Mechanics I GÜ 2												Study Work Green Technologies PS 2
30	Engineering Mechanics I HÜ 2									Computer Science for Engineers - Programming Concepts, Data Handling & Communication			
31										Computer Science for Engineers - Programming VL 3			
32										Computer Science for Engineers - Programming GÜ 2			
33										Computer Science for Engineers - Programming Concepts, Data Handling & Communication			
													System Integration Renewable Energies (part 1)
													System Integration Renewable Energies I VL 2
													System Integration Renewable Energies I GÜ 1

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.

