

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

Specialisation Energy Systems / Renewable Energies

1	Mathematics I		Technical Thermodynamics I		Basics of Electrical Engineering		Fundamentals of Fluid Mechanics		Heat and Mass Transfer		System Integration Renewable Energies (part 2)	
2	Linear Algebra I	VL 2	Technical Thermodynamics I	VL 2	Basics of Electrical Engineering	VL 3	Fundamentals of Fluid Mechanics	VL 2	Heat and Mass Transfer	VL 2	System Integration Renewable Energies II	VL 2
3	Linear Algebra I	GÜ 1	Technical Thermodynamics I	HÜ 1	Basics of Electrical Engineering	GÜ 2	Fluid Mechanics for Process Engineering	HÜ 2	Heat and Mass Transfer	GÜ 1	System Integration Renewable Energies II	GÜ 1
4	Linear Algebra I	HÜ 1	Technical Thermodynamics I	GÜ 1			Fundamentals on Fluid Mechanics	GÜ 2	Heat and Mass Transfer	HÜ 1		
5	Analysis I	VL 2									Climate change impact & mitigation	
6	Analysis I	GÜ 1									Technical measures to mitigate greenhouse gas emissions	VL 2
7	Analysis I	HÜ 1									Technical measures to mitigate greenhouse gas emissions	GÜ 2
8			Mechanics II: Mechanics of Materials		Technical Thermodynamics II		Sanitary Engineering I		Introduction to Control Systems		Basics of climate change and its effects	VL 2
9			Mechanics II	VL 2	Technical Thermodynamics II	VL 2	Wastewater Disposal	VL 2	Introduction to Control Systems	VL 2		
10			Mechanics II	GÜ 2	Technical Thermodynamics II	HÜ 1	Wastewater Disposal	HÜ 1	Introduction to Control Systems	GÜ 2		
11			Mechanics II	HÜ 2	Technical Thermodynamics II	GÜ 1	Drinking Water Supply	VL 2				
12							Drinking Water Supply	HÜ 1			Bachelor Thesis	
13	General and Inorganic Chemistry											
14	General and Inorganic Chemistry	VL 3										
15	Fundamentals in Inorganic Chemistry	PR 3										
16	Fundamentals in Inorganic Chemistry	GÜ 1										
17			Mathematics II		Mathematics III		Conventional Energy Systems and Energy Industry		Economic and environmental project assessment			
18			Linear Algebra II	VL 2	Analysis III	VL 2	Power Industry	VL 1	Basics of Environmental Project Assessment	VL 2		
19			Linear Algebra II	GÜ 1	Analysis III	GÜ 1	Energy markets and energy trading	VL 2	Case studies economic and environmental project assessment	GÜ 1		
20			Linear Algebra II	HÜ 1	Analysis III	HÜ 1	Fossil Energy Systems	VL 2	Basics of economic project assessment	VL 2		
21			Analysis II	VL 2	Differential Equations 1	VL 2	Fossil Energy Systems	HÜ 1				
22			Analysis II	HÜ 1	Differential Equations 1	GÜ 1						
23			Analysis II	GÜ 1	Differential Equations 1	HÜ 1						
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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.

