

# 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 W Bachelor Green Technologies: Energy, Water, Climate (GTBS)

Specialisation Water	Form Hrs/wk	Semester 2	Form Hrs/wk	Semester 3	Form Hrs/wk	Semester 4	Form Hrs/wk	Semester 5	Form Hrs/wk	Semester 6	Form Hrs/wk
1		<b>Mathematics I</b>		<b>Technical Thermodynamics I</b>		<b>Basics of Electrical Engineering</b>		<b>Fundamentals of Fluid Mechanics</b>		<b>Heat and Mass Transfer</b>	
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		<b>Sanitary Engineering II</b>	
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		Drinking Water Treatment SE 2	
4	Linear Algebra I HÜ 1	Technical Thermodynamics I GÜ 1						Heat and Mass Transfer HÜ 1		Management of Wastewater Infrastructure SE 2	
5	Analysis I VL 2										
6	Analysis I GÜ 1										
7	Analysis I HÜ 1										
8		<b>Mechanics II: Mechanics of Materials</b>		<b>Technical Thermodynamics II</b>		<b>Sanitary Engineering I</b>		<b>Foundations of Management</b>		<b>Applied Water Management</b>	
9		Mechanics II VL 2		Technical Thermodynamics II VL 2		Wastewater Disposal VL 2		Introduction to Management VL 3		Groundwater Hydrology and Modeling VL 2	
10	<b>General and Inorganic Chemistry</b>	Mechanics II GÜ 2		Technical Thermodynamics II HÜ 1		Wastewater Disposal HÜ 1		Management Tutorial GÜ 2		Groundwater Hydrology and Modeling PBL 2	
11	General and Inorganic Chemistry VL 3	Mechanics II HÜ 2		Technical Thermodynamics II GÜ 1		Drinking Water Supply VL 2				Nature-oriented Hydraulic Engineering PBL 2	
12	Fundamentals in Inorganic Chemistry PR 3					Drinking Water Supply HÜ 1					
13	Fundamentals in Inorganic Chemistry GÜ 1										
14		<b>Mathematics II</b>		<b>Mathematics III</b>		<b>Conventional Energy Systems and Energy Economics</b>		<b>Introduction to Control Systems</b>		<b>Bachelor Thesis</b>	
15		Linear Algebra II VL 2		Analysis III VL 2		Energy systems and markets VL 2		Introduction to Control Systems VL 2			
16	<b>Mechanics I (Statics)</b>	Linear Algebra II GÜ 1		Analysis III GÜ 1		Fossil Energy Sources VL 3		Introduction to Control Systems GÜ 2			
17	Mechanics I VL 2	Linear Algebra II HÜ 1		Analysis III HÜ 1		Fossil Energy Sources HÜ 1					
18	Mechanics I GÜ 2	Analysis II VL 2		Differential Equations 1 VL 2							
19	Mechanics I HÜ 1	Analysis II HÜ 1		Differential Equations 1 GÜ 1							
20		Analysis II GÜ 1		Differential Equations 1 HÜ 1							
21						<b>Renewable Energies</b>		<b>Hydrology and Geoinformation Systems (part 2)</b>			
22	<b>Computer Science for Engineers - Introduction and Overview</b>	<b>Organic Chemistry</b>		<b>Measurement Technology for VT/ BVT</b>		Renewable Energies I VL 2		Hydrology VL 1			
23	Computer Science for Engineers - Introduction and Overview VL 3	Organic Chemistry VL 4		Measurement Technology VL 2		Renewable Energies II VL 2		Hydrology PBL 1			
24	Computer Science for Engineers - Introduction and Overview GÜ 2	Organic Chemistry PR 3		Physical Fundamentals of Measurement Technology VL 2		Renewable Energies I HÜ 1		<b>Green Technologies III</b>			
25				Practical Course Measurement Technology PR 2		Renewable Energies II HÜ 1		Scientific Work and Writing SE 2			
26								Study Work Green Technologies PS 2			
27						<b>Green Technologies II (part 2)</b>					
28	<b>Green Technologies I</b>			<b>Green Technologies II (part 1)</b>		Practical Exercise Environmental Technology PR 1		<b>Hydrology and Geoinformation Systems (part 1)</b>			
29	Meteorology and Climate Systems - Introduction VL 2			Environmental Technologie VL 2				Introduction to Geoinformation Science PBL 3			
30	Introduction to Green Technologies SE 2			Environmental Assessment VL 2							
31	Meteorology and Climate Systems - Introduction GÜ 2			Environmental Assessment GÜ 1							
32											
33											

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.

