

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

Specialisation: Bioresource Technology	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6
	Form Hrs/wk	Form Hrs/wk	Form Hrs/wk	Form Hrs/wk	Form Hrs/wk
1	Mathematics I	Technical Thermodynamics I	Basics of Electrical Engineering	Fundamentals of Fluid Mechanics	Heat and Mass Transfer
2	Linear Algebra I VL 2 Linear Algebra I GÜ 1	Technical Thermodynamics I VL 2 Technical Thermodynamics I HÜ 1	Basics of Electrical Engineering VL 3 Basics of Electrical Engineering GÜ 2	Fundamentals of Fluid Mechanics VL 2 Fluid Mechanics for Process Engineering HÜ 2	Heat and Mass Transfer VL 2 Heat and Mass Transfer GÜ 1 Heat and Mass Transfer HÜ 1
3	Linear Algebra I HÜ 1	Technical Thermodynamics I GÜ 1			
4	Analysis I VL 2				Chemical Reaction Engineering (part 2)
5	Analysis I GÜ 1				Experimental Course Chemical Engineering PR 2
6	Analysis I HÜ 1				Phase Equilibria Thermodynamics
7					Phase Equilibria Thermodynamics VL 2
8		Mechanics II: Mechanics of Materials	Technical Thermodynamics II	Sanitary Engineering I	Foundations of Management
9		Mechanics II VL 2 Mechanics II GÜ 2 Mechanics II HÜ 2	Technical Thermodynamics II VL 2 Technical Thermodynamics II HÜ 1 Technical Thermodynamics II GÜ 1	Wastewater Disposal VL 2 Wastewater Disposal HÜ 1 Drinking Water Supply VL 2 Drinking Water Supply HÜ 1	Introduction to Management VL 3 Management Tutorial GÜ 2
10	General and Inorganic Chemistry				Bioprocess Engineering - Fundamentals
11	General and Inorganic Chemistry VL 3 Fundamentals in Inorganic Chemistry PR 3 Fundamentals in Inorganic Chemistry GÜ 1				Bioprocess Engineering - Fundamentals VL 2 Bioprocess Engineering - Fundamentals HÜ 2 Bioprocess Engineering - Fundamental Practical PR 2
12					Course
13		Mathematics II	Mathematics III	Conventional Energy Systems and Energy Economics	Introduction to Control Systems
14		Linear Algebra II VL 2 Linear Algebra II GÜ 1 Linear Algebra II HÜ 1	Analysis III VL 2 Analysis III GÜ 1 Analysis III HÜ 1	Energy systems and markets VL 2 Fossil Energy Sources VL 3 Fossil Energy Sources HÜ 1	Introduction to Control Systems VL 2 Introduction to Control Systems GÜ 2
15	Mechanics I (Statics)				
16	Mechanics I VL 2				
17	Mechanics I GÜ 2				
18	Mechanics I HÜ 1				
19					
20				Renewable Energies	Chemical Reaction Engineering (part 1)
21		Organic Chemistry	Measurement Technology for VT/ BVT	Renewable Energies I VL 2 Renewable Energies II VL 2 Renewable Energies I HÜ 1 Renewable Energies II HÜ 1	Chemical Reaction Engineering VL 2 Chemical Reaction Engineering HÜ 2
22	Computer Science for Engineers - Introduction and Overview	Organic Chemistry VL 4 Organic Chemistry PR 3	Measurement Technology VL 2 Physical Fundamentals of Measurement Technology VL 2 Practical Course Measurement Technology PR 2		
23	Computer Science for Engineers - Introduction and Overview VL 3				Green Technologies III
24	Computer Science for Engineers - Introduction and Overview GÜ 2				Scientific Work and Writing SE 2 Study Work Green Technologies PS 2
25				Green Technologies II (part 2)	
26				Practical Exercise Environmental Technology PR 1	
27	Green Technologies I		Green Technologies II (part 1)	Biochemistry and Microbiology	
28	Meteorology and Climate Systems - Introduction VL 2 Introduction to Green Technologies SE 2		Environmental Technologie VL 2 Environmental Assessment VL 2 Environmental Assessment GÜ 1	Biochemistry VL 2 Biochemistry PBL 1 Microbiology VL 2 Microbiology PBL 1	
29	Meteorology and Climate Systems - Introduction GÜ 2				
30					
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.

