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 Biotechnologies

1	**Mathematics I** Linear Algebra I VL 2 Linear Algebra I GÜ 1 Linear Algebra I HÜ 1 Analysis I VL 2 Analysis I GÜ 1 Analysis I HÜ 1	**Technical Thermodynamics I** Technical Thermodynamics I VL 2 Technical Thermodynamics I HÜ 1 Technical Thermodynamics I GÜ 1	**Basics of Electrical Engineering** Basics of Electrical Engineering VL 3 Basics of Electrical Engineering GÜ 2	**Fundamentals of Fluid Mechanics** Fundamentals of Fluid Mechanics VL 2 Fluid Mechanics for Process Engineering HÜ 2 Fundamentals on Fluid Mechanics GÜ 2	**Heat and Mass Transfer** Heat and Mass Transfer VL 2 Heat and Mass Transfer GÜ 1 Heat and Mass Transfer HÜ 1	**Chemical Reaction Engineering (part 2)** Experimental Course Chemical Engineering PR 2
2						
3						
4						**Phase Equilibria Thermodynamics** Phase Equilibria Thermodynamics VL 2 Phase Equilibria Thermodynamics GÜ 1 Phase Equilibria Thermodynamics HÜ 1
5						
6						
7		**Mechanics II: Mechanics of Materials** Mechanics II VL 2 Mechanics II GÜ 2 Mechanics II HÜ 2	**Technical Thermodynamics II** Technical Thermodynamics II VL 2 Technical Thermodynamics II HÜ 1 Technical Thermodynamics II GÜ 1	**Sanitary Engineering I** Wastewater Disposal VL 2 Wastewater Disposal HÜ 1 Drinking Water Supply VL 2 Drinking Water Supply HÜ 1	**Introduction to Control Systems** Introduction to Control Systems VL 2 Introduction to Control Systems GÜ 2	
8						
9	**General and Inorganic Chemistry** General and Inorganic Chemistry VL 3 Fundamentals in Inorganic Chemistry PR 3 Fundamentals in Inorganic Chemistry GÜ 1					**Bioprocess Engineering - Fundamentals** Bioprocess Engineering - Fundamentals VL 2 Bioprocess Engineering- Fundamentals HÜ 2 Bioprocess Engineering - Fundamental Practical Course PR 2
10						
11						
12						
13		**Mathematics II** Linear Algebra II VL 2 Linear Algebra II GÜ 1 Linear Algebra II HÜ 1 Analysis II VL 2 Analysis II HÜ 1 Analysis II GÜ 1	**Mathematics III** Analysis III VL 2 Analysis III GÜ 1 Analysis III HÜ 1 Differential Equations 1 VL 2 Differential Equations 1 GÜ 1 Differential Equations 1 HÜ 1	**Conventional Energy Systems and Energy Industry** Power Industry VL 1 Energy markets and energy trading VL 2 Fossil Energy Systems VL 2 Fossil Energy Systems HÜ 1	**Economic and environmental project assessment** Basics of Environmental Project Assessment VL 2 Case studies economic and environmental project assessment GÜ 1 Basics of economic project assement VL 2	
14						
15	**Mechanics I (Statics)** Mechanics I VL 2 Mechanics I GÜ 2 Mechanics I HÜ 1					**Bachelor Thesis**
16						
17						
18						
19				**Renewable Energies** Renewable Energies I VL 2 Renewable Energies II VL 2 Renewable Energies I HÜ 1 Renewable Energies II HÜ 1	**Chemical Reaction Engineering (part 1)** Chemical Reaction Engineering VL 2 Chemical Reaction Engineering HÜ 2	
20						
21	**Computer Science for Engineers - Introduction and Overview** Computer Science for Engineers - Introduction and Overview VL 3 Computer Science for Engineers - Introduction and Overview GÜ 2	**Organic Chemistry** Organic Chemistry VL 4 Organic Chemistry PR 3	**Measurement Technology for Chemical and Bioprocess Engineering** Measurement Technology VL 2 Physical Fundamentals of Measurement Technology VL 2 Practical Course Measurement Technology PR 2		**Green Technologies III** Scientific Work and Writing SE 2 Study Work Green Technologies PS 2	
22						
23						
24						
25				**Green Technologies II (part 2)** Practical Exercise Environmental Technology PR 1		
26				**Biochemistry and Microbiology** Biochemistry VL 2 Biochemistry PBL 1 Microbiology VL 2 Microbiology PBL 1		
27	**Green Technologies I** Meteorology and Climate Systems - Introduction VL 2 Introduction to Green Technologies SE 2 Meteorology and Climate Systems - Introduction GÜ 2		**Green Technologies II (part 1)** Environmental Technologie VL 2 Pollutant analysis VL 2			
28						
29						
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.