

# Course of Study Green Technologies: Energy, Water, Climate (Study Cohort w22)

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

Specialisation Maritime Technologies			
1	<b>Mathematics I</b>		<b>Technical Thermodynamics I</b>
2	Mathematics I VL 4 Mathematics I HÜ 2	Technical Thermodynamics I VL 2 Technical Thermodynamics I HÜ 1	<b>Basics of Electrical Engineering</b> Basics of Electrical Engineering VL 3 Basics of Electrical Engineering GÜ 2
3	Mathematics I GÜ 2	Technical Thermodynamics I GÜ 1	<b>Fundamentals of Fluid Mechanics</b> Fundamentals of Fluid Mechanics VL 2 Fluid Mechanics for Process Engineering HÜ 2 Fundamentals on Fluid Mechanics GÜ 2
4			<b>Heat and Mass Transfer</b> Heat and Mass Transfer VL 2 Heat and Mass Transfer GÜ 2 Heat and Mass Transfer HÜ 1
5			
6			
7		<b>Mathematics II</b>	<b>Technical Thermodynamics II</b>
8		Mathematics II VL 4 Mathematics II HÜ 2 Mathematics II GÜ 2	Technical Thermodynamics II VL 2 Technical Thermodynamics II HÜ 1 Technical Thermodynamics II GÜ 1
9	<b>General and Inorganic Chemistry</b>		<b>Sanitary Engineering I</b>
10	General and Inorganic Chemistry VL 3 Fundamentals in Inorganic Chemistry PR 3		Wastewater Disposal VL 2 Wastewater Disposal HÜ 1 Drinking Water Supply VL 2 Drinking Water Supply HÜ 1
11	Fundamentals in Inorganic Chemistry GÜ 1		<b>Introduction to Control Systems</b> Introduction to Control Systems VL 2 Introduction to Control Systems GÜ 2
12			<b>Electrical Machines and Actuators</b> Electrical Machines and Actuators VL 3 Electrical Machines and Actuators HÜ 2
13			
14			<b>Mathematics III</b>
15	<b>Computer Science for Engineers - Introduction and Overview</b>	<b>Organic Chemistry</b>	<b>Conventional Energy Systems and Energy Industry</b>
16	Computer Science for Engineers - Introduction and Overview VL 3	Organic Chemistry VL 4 Organic Chemistry PR 3	Power Industry VL 1 Energy markets and energy trading VL 2 Fossil Energy Systems VL 2 Fuels I VL 1
17	Computer Science for Engineers - Introduction and Overview GÜ 2		Differential Equations 1 VL 2 Differential Equations 1 GÜ 1 Differential Equations 1 HÜ 1
18			<b>Economic and environmental project assessment</b> Basics of Environmental Project Assessment VL 2 Case studies economic and environmental project assessment GÜ 1 Basics of economic project assessment VL 2
19			
20			<b>Renewable Energies</b>
21	<b>Green Technologies I</b>	<b>Engineering Mechanics II (Elastostatics)</b>	<b>Green maritime energy conversion</b>
22	Meteorology and Climate Systems - Introduction VL 2 Introduction Green Technologies SE 2 Meteorology and Climate Systems - Introduction GÜ 2	Engineering Mechanics II VL 2 Engineering Mechanics II GÜ 2 Engineering Mechanics II HÜ 2	Renewable Energies I VL 2 Renewable Energies II VL 2 Renewable Energies I HÜ 1 Fuels II VL 1
23			<b>Measurement Technology for Chemical and Bioprocess Engineering</b> Measurement Technology VL 2 Physical Fundamentals of Measurement Technology VL 2 Practical Course Measurement Technology PR 2
24			
25			<b>Green Technologies II (part 2)</b>
26			Practical Exercise Environmental Technology PR 1
27	<b>Engineering Mechanics I (Stereostatics)</b>		<b>Green maritime resources</b>
28	Engineering Mechanics I VL 2 Engineering Mechanics I GÜ 2 Engineering Mechanics I HÜ 1		Green maritime resources VL 3 Green maritime resources GÜ 3
29			
30			
31			
32			<b>Fundamentals of renewable ocean utilization</b>
33			Fundamentals of renewable ocean utilization VL 3 Fundamentals of renewable ocean utilization GÜ 3
34			
35			
36			

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.

