

Course of Study Green Technologies: Energy, Water, Climate (Study Cohort w24)

Legend:

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

