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

w22) 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 Mathematics I Technical Thermodynamics I **Basics of Electrical Engineering** Fundamentals of Fluid Mechanics Heat and Mass Transfer Fundamentals of Mechanical Engineering Design Mathematics I Technical Thermodynamics I Basics of Electrical Engineering Fundamentals of Fluid Mechanics Heat and Mass Transfer Fundamentals of Mechanical Engineering Design VL 2 HÜ 2 H0 1 Basics of Electrical Engineering GÜ 1 Mathematics I GÜ 2 HÜ 2 Heat and Mass Transfer Fundamentals of Mechanical Engineering Design HÜ 2 Technical Thermodynamics I Fluid Mechanics for Process Engineering 3 Mathematics I Technical Thermodynamics I Fundamentals on Fluid Mechanics Heat and Mass Transfer 6 Mathematics II Technical Thermodynamics II Sanitary Engineering I Introduction to Control Systems **Electrical Machines and Actuators** Mathematics II Technical Thermodynamics II Wastewater Disposal Introduction to Control Systems Electrical Machines and Actuators HÜ 1 HÜ 2 HÜ 1 Electrical Machines and Actuators HÜ 2 Mathematics II Technical Thermodynamics II Wastewater Disposal Introduction to Control Systems General and Inorganic Chemistry Technical Thermodynamics II Drinking Water Supply VL 2 General and Inorganic Chemistry Drinking Water Supply 10 Fundamentals in Inorganic Chemistry Fundamentals in Inorganic Chemistry 12 13 Mathematics III Conventional Energy Systems and Energy Industry Economic and environmental project assessment Analysis III Power Industry VI 1 Basics of Environmental Project Assessment VL 2 14 GÜ 1 VI 2 Analysis III Energy markets and energy trading Case studies economic and environmental 15 Computer Science for Engineers - Introduction and Organic Chemistry HÜ 1 Fossil Energy Systems VL 2 Analysis III Organic Chemistry Basics of economic project assement 16 Computer Science for Engineers - Introduction VI 3 Organic Chemistry Differential Equations 1 GÜ 1 17 Differential Equations 1 HÜ 1 and Overview 19 Renewable Energies Green maritime energy conversion Renewable Energies I Green maritime energy conversion VI 4 20 VI 2 GÜ 2 Renewable Energies II Green maritime energy conversion 21 Green Technologies I Engineering Mechanics II (Elastostatics) Measurement Technology for Chemical and Bioprocess HŪ 1 Renewable Energies I Meteorology and Climate Systems - Introduction VL 2 Engineering Mechanics II VL 2 22 SE 2 Measurement Technology Introduction Green Technologies Engineering Mechanics II 23 Physical Fundamentals of Measurement Meteorology and Climate Systems - Introduction GÜ 2 Engineering Mechanics II VI 2 24 Practical Course Measurement Technology 25 Green Technologies II (part 2) Green maritime resources Practical Exercise Environmental Technology Green maritime resources VI 3 GÜ 3 26 27 Engineering Mechanics I (Stereostatics) Green Technologies II (part 1) Engineering Mechanics I Environmental Technologie 28 GÜ 2 Engineering Mechanics I Pollutant analysis VI 2 29 Engineering Mechanics I HÜ 1 30 31 Fundamentals of renewable ocean utilization Fundamentals of renewable ocean utilization VL 3 32 Fundamentals of renewable ocean utilization GÜ 3 33 34 35 36

The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.

Non-technical Courses for Bachelors (from catalogue) - 6LP