## Course of Study Green Technologies: Energy, Water, Climate (Study Cohort w21)

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 **Basics of Electrical Engineering** Fundamentals of Fluid Mechanics Heat and Mass Transfer Fundamentals of Mechanical Engineering Design Linear Algebra I Technical Thermodynamics I Basics of Electrical Engineering Fundamentals of Fluid Mechanics Heat and Mass Transfer Fundamentals of Mechanical Engineering Design VL 2 GÜ 1 H0 1 GÜ 1 GÜ 2 HÜ 2 Heat and Mass Transfer Fundamentals of Mechanical Engineering Design HÜ 2 Linear Algebra L Technical Thermodynamics I Basics of Electrical Engineering Fluid Mechanics for Process Engineering 3 HŪ 1 Technical Thermodynamics I Fundamentals on Fluid Mechanics Heat and Mass Transfer Linear Algebra I GÜ 1 Analysis I HÜ 1 Mechanics II: Mechanics of Materials Technical Thermodynamics II Sanitary Engineering I Introduction to Control Systems **Electrical Machines and Actuators** Machanice II Technical Thermodynamics II Wastewater Disposal Introduction to Control Systems Electrical Machines and Actuators //1 3 HÜ 1 GÜ 2 HÜ 1 Electrical Machines and Actuators HÜ 2 Mechanics II Technical Thermodynamics II Wastewater Disposal Introduction to Control Systems General and Inorganic Chemistry Mechanics II Technical Thermodynamics II Drinking Water Supply VL 2 General and Inorganic Chemistry VL 3 Drinking Water Supply 10 Fundamentals in Inorganic Chemistry Fundamentals in Inorganic Chemistry GÜ 1 12 13 Mathematics II Mathematics III Conventional Energy Systems and Energy Industry Economic and environmental project assessment Linear Algebra II Analysis III Power Industry VI 1 Basics of Environmental Project Assessment VL 2 14 GÜ 1 GÜ 1 VI 2 Linear Algebra II Analysis III Energy markets and energy trading Case studies economic and environmental 15 Mechanics I (Statics) HÜ 1 Analysis III HÜ 1 Fossil Energy Systems VL 2 Linear Algebra II Mechanics I Analysis II Differential Equations 1 Fossil Energy Systems Basics of economic project assement 16 Mechanics I Differential Equations 1 GÜ 1 Analysis II Differential Equations 1 18 19 Renewable Energies Green maritime energy conversion Renewable Energies I Green maritime energy conversion VI 4 VI 2 GÜ 2 Renewable Energies II Green maritime energy conversion 21 Computer Science for Engineers - Introduction and Organic Chemistry Measurement Technology for Chemical and Bioprocess HŪ 1 Renewable Energies I Organic Chemistry 22 Computer Science for Engineers - Introduction VL 3 Measurement Technology Organic Chemistry 23 Physical Fundamentals of Measurement VI 2 and Overview Practical Course Measurement Technology 25 Green Technologies II (part 2) Green maritime resources Practical Exercise Environmental Technology Green maritime resources VI 3 Green maritime resources GÜ 3 26 27 Green Technologies I Green Technologies II (part 1) Meteorology and Climate Systems - Introduction VL 2 Environmental Technologie 28 Introduction to Green Technologies Pollutant analysis VI 2 29 Meteorology and Climate Systems - Introduction GÜ 2 30 31 Fundamentals of renewable ocean utilization Fundamentals of renewable ocean utilization 32 Fundamentals of renewable ocean utilization GÜ 3 33 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.