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 W Bachelor Green Technologies: Energy, Water, Climate (GTBS) Specialisation Water Technologies Mathematics I Technical Thermodynamics I **Basics of Electrical Engineering** Fundamentals of Fluid Mechanics Heat and Mass Transfer Sanitary Engineering II Mathematics I Technical Thermodynamics I Basics of Electrical Engineering Fundamentals of Fluid Mechanics Heat and Mass Transfer Drinking Water Treatment SF 2 HÜ 2 H0 1 Basics of Electrical Engineering GÜ 1 Management of Wastewater Infrastructure Mathematics I GÜ 2 HÜ 2 Heat and Mass Transfer Technical Thermodynamics I Fluid Mechanics for Process Engineering 3 Technical Thermodynamics I Fundamentals on Fluid Mechanics Heat and Mass Transfer 6 Mathematics II Technical Thermodynamics II Sanitary Engineering I Introduction to Control Systems Applied Water Management Mathematics II Technical Thermodynamics II Wastewater Disposal Introduction to Control Systems Numerical modelling of soil water dynamics HÜ 1 HÜ 2 HÜ 1 Numerical modelling of soil water dynamics PBI 2 Mathematics II Technical Thermodynamics II Wastewater Disposal Introduction to Control Systems General and Inorganic Chemistry Technical Thermodynamics II Drinking Water Supply VL 2 Nature-oriented Hydraulic Engineering General and Inorganic Chemistry Drinking Water Supply 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 VI 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 Hydrology and Geoinformation Systems (part 2) Renewable Energies I Hydrology VI 1 20 VI 2 PRI 1 Renewable Energies II Hydrology 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 Green Technologies III SE 2 Measurement Technology Introduction Green Technologies Engineering Mechanics II Scientific Work and Writing SF 2 23 Physical Fundamentals of Measurement Meteorology and Climate Systems - Introduction GÜ 2 Engineering Mechanics II VI 2 Study Work Green Technologies 24 Practical Course Measurement Technology 25 Green Technologies II (part 2) Practical Exercise Environmental Technology 26 Hydrology and Geoinformation Systems (part 1) Introduction to Geoinformation Science 27 Engineering Mechanics I (Stereostatics) Green Technologies II (part 1) Engineering Mechanics I Environmental Technologie 28 New Trends in Water and Environmental Research GÜ 2 VI 2 Engineering Mechanics I Pollutant analysis Introduction to Microplastics in Environment IV 2 Engineering Mechanics I HÜ 1 Research Methods VL 1 30 Research Trends SE 2 31 32 33 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.