## 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) Dual study program 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 GÜ 1 Management of Wastewater Infrastructure Mathematics I HÜ 1 GÜ 2 HÜ 2 Heat and Mass Transfer Technical Thermodynamics I Basics of Electrical Engineering 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 Applied Water Management Mathematics II Technical Thermodynamics II Wastewater Disposal Introduction to Control Systems Numerical modelling of soil water dynamics HŪ 1 HÜ 2 HÜ 1 Numerical modelling of soil water dynamics Mathematics II Technical Thermodynamics II Wastewater Disposal Introduction to Control Systems PBI 2 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 Practical module 5 (dual study program, Bachelor's Bachelor thesis (dual study program) Analysis III Power Industry VI 1 dearee) 14 Practical term 5 GÜ 1 VI 2 Analysis III Energy markets and energy trading 15 Computer Science for Engineers - Introduction and Organic Chemistry HÜ 1 Fossil Energy Systems VL 2 Analysis III Organic Chemistry 16 Computer Science for Engineers - Introduction VI 3 Organic Chemistry Differential Equations 1 GÜ 1 Differential Equations 1 MÜ 1 and Overview 19 Renewable Energies Economic and environmental project assessment Renewable Energies I Basics of Environmental Project Assessment VI 2 Renewable Energies II Case studies economic and environmental 21 Practical module 2 (dual study program, Bachelor's Measurement Technology for Chemical and Bioprocess HŪ 1 Renewable Energies I Meteorology and Climate Systems - Introduction VL 2 Basics of economic project assement 22 Measurement Technology Introduction Green Technologies SE 2 23 Physical Fundamentals of Measurement Meteorology and Climate Systems - Introduction GÜ 2 VI 2 24 Practical Course Measurement Technology 25 Hydrology and Geoinformation Systems (part 2) degree) Hydrology VL 1 26 Hydrology PBI 1 27 Practical module 1 (dual study program, Bachelor's Engineering Mechanics II (Elastostatics) Green Technologies II (part 1) Environmental Technologie Engineering Mechanics II VL 2 28 Green Technologies III Practical term 1 GÜ 2 Engineering Mechanics II Scientific Work and Writing SF 2 29 Engineering Mechanics II Study Work Green Technologies 30 31 Green Technologies II (part 2) Practical Exercise Environmental Technology 32 Hydrology and Geoinformation Systems (part 1) Practical module 3 (dual study program, Bachelor's Introduction to Geoinformation Science 33 Engineering Mechanics I (Stereostatics) Practical term 3 Engineering Mechanics I 34 New Trends in Water and Environmental Research Engineering Mechanics I GÜ 2 Introduction to Microplastics in Environment 35 HÜ 1 Engineering Mechanics I Research Methods VL 1 36 Research Trends SE 2 37 38 39 Linking theory and practice (dual study program, Bachelor's degree) (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.