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 S Bachelor Green Technologies: Energy, Water, Climate (GTBS) Dual study program Specialisation Energy Systems / Renewable Energies **Basics of Electrical Engineering** Fundamentals of Fluid Mechanics Heat and Mass Transfer System Integration Renewable Energies (part 2) Mathematics I Technical Thermodynamics I Basics of Electrical Engineering Fundamentals of Fluid Mechanics Heat and Mass Transfer System Integration Renewable Energies II HÜ 2 Mathematics I Technical Thermodynamics I HÜ 1 GÜ 2 HÜ 2 Heat and Mass Transfer GÜ 1 System Integration Renewable Energies II Basics of Electrical Engineering Fluid Mechanics for Process Engineering 3 Mathematics I Technical Thermodynamics I Fundamentals on Fluid Mechanics Heat and Mass Transfer Climate change impact & mitigation Technical measures to mitigate greenhouse gas VL 2 6 Mathematics II Technical Thermodynamics II Sanitary Engineering I Introduction to Control Systems Basics of climate change and its effects Mathematics II Technical Thermodynamics II Wastewater Disposal Introduction to Control Systems VI 2 HÜ 1 GÜ 2 HÜ 2 HÜ 1 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 Bachelor thesis (dual study program) 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 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 Computer Science for Engineers - Introduction GÜ 2 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 Practical module 4 (dual study program, Bachelor's Electrical Power Systems I: Introduction to Electrical Power Systems degree) 26 Electrical Power Systems I: Introduction to 27 Practical module 1 (dual study program, Bachelor's Engineering Mechanics II (Elastostatics) Green Technologies II (part 1) Electrical Power Systems Environmental Technologie Electrical Power Systems I: Introduction to Engineering Mechanics II VL 2 28 Practical term 1 GÜ 2 Electrical Power Systems Engineering Mechanics II 29 Engineering Mechanics II 30 31 Green Technologies II (part 2) Green Technologies III Practical Exercise Environmental Technology Scientific Work and Writing SF 2 Study Work Green Technologies 32 Computer Science for Engineers - Programming Practical module 3 (dual study program, Bachelor's Concepts, Data Handling & Communication 33 Engineering Mechanics I (Stereostatics) Practical term 3 Computer Science for Engineers - Programming VL 3 Engineering Mechanics I VI 2 34 Concepts, Data Handling & Communication Engineering Mechanics I GÜ 2 Computer Science for Engineers - Programming GÜ 2 35 HÜ 1 Engineering Mechanics I Concepts. Data Handling & Communication 36 37 System Integration Renewable Energies (part 1) System Integration Renewable Energies I 38 System Integration Renewable Energies I 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.