Course of Study Green Technologies: Energy, Water, Climate (Study Cohort w23)

Core Qualification Compulsory Specialisation Compulsory Focus Compulsory Thesis Compulsory Core Qualification Elective Compulsory Specialisation Elective Compulsory Focus Elective Compulsory Interdisciplinary complement Sample course plan B Bachelor Green Technologies: Energy, Water, Climate (GTBS) Dual study program Specialisation Biotechnologies Mathematics I Technical Thermodynamics I Basics of Electrical Engineering Fundamentals of Fluid Mechanics Heat and Mass Transfer Chemical Reaction Engineering (part 2) Mathematics I Technical Thermodynamics I Basics of Electrical Engineering Fundamentals of Fluid Mechanics Heat and Mass Transfer Experimental Course Chemical Engineering HÜ 2 GÜ 1 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 Phase Equilibria Thermodynamics Mathematics I Technical Thermodynamics I Fundamentals on Fluid Mechanics Heat and Mass Transfer Phase Equilibria Thermodynamics Phase Equilibria Thermodynamics GŪ 1 Phase Equilibria Thermodynamics 6 Mathematics II Technical Thermodynamics II Sanitary Engineering I Introduction to Control Systems Mathematics II Technical Thermodynamics II Wastewater Disposal Introduction to Control Systems V/I 2 HÜ 1 HÜ 2 HÜ 1 GÜ 2 Mathematics II Technical Thermodynamics II Wastewater Disposal Introduction to Control Systems General and Inorganic Chemistry Bioprocess Engineering - Fundamentals Technical Thermodynamics II Drinking Water Supply VL 2 Bioprocess Engineering - Fundamentals General and Inorganic Chemistry Drinking Water Supply 10 Fundamentals in Inorganic Chemistry Bioprocess Engineering- Fundamentals Fundamentals in Inorganic Chemistry Bioprocess Engineering - Fundamental Practical PR 2 12 13 Mathematics III Conventional Energy Systems and Energy Industry Practical module 5 (dual study program, Bachelor's Analysis III Power Industry VI 1 degree) 14 Practical term 5 GÜ VI 2 Analysis III Energy markets and energy trading 15 Computer Science for Engineers - Introduction and Organic Chemistry Bachelor thesis (dual study program) 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 17 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 Green Technologies I 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 Chemical Reaction Engineering (part 1) degree) Chemical Reaction Engineering VI 2 26 Chemical Reaction Engineering HÜ 2 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 Practical term 1 GÜ 2 Engineering Mechanics II 29 Green Technologies III Engineering Mechanics II 30 Study Work Green Technologies 31 Green Technologies II (part 2) Practical Exercise Environmental Technology 32 Riochemistry and Microbiology Practical module 3 (dual study program, Bachelor's 33 Engineering Mechanics I (Stereostatics) Practical term 3 Engineering Mechanics I VI 2 34 Microbiology VL 2 Engineering Mechanics I GÜ 2 PBL 1 35 HÜ 1 Engineering Mechanics I 36 37

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

Linking theory and practice (dual study program, Bachelor's degree) (from catalogue) - 6LP