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) 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 H0 1 GÜ 1 Mathematics I Basics of Electrical Engineering GÜ 2 HÜ 2 Heat and Mass Transfer Technical Thermodynamics I Fluid Mechanics for Process Engineering 3 Phase Equilibria Thermodynamics Technical Thermodynamics I Fundamentals on Fluid Mechanics Heat and Mass Transfer Phase Equilibria Thermodynamics Phase Equilibria Thermodynamics GÜ 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 Economic and environmental project assessment Analysis III Power Industry VI 1 Basics of Environmental Project Assessment 14 GÜ 1 VI 2 GÜ 1 Analysis III Energy markets and energy trading Case studies economic and environmental 15 Computer Science for Engineers - Introduction and Organic Chemistry Bachelor Thesis 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 Computer Science for Engineers - Introduction GÜ 2 and Overview 19 Renewable Energies Chemical Reaction Engineering (part 1) Renewable Energies I Chemical Reaction Engineering VL 2 20 VI 2 Chemical Reaction Engineering HÜ 2 Renewable Energies II 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 SE 2 Measurement Technology Introduction Green Technologies Engineering Mechanics II 23 Green Technologies III Physical Fundamentals of Measurement Meteorology and Climate Systems - Introduction GÜ 2 Engineering Mechanics II VI 2 Scientific Work and Writing SE 2 24 Practical Course Measurement Technology Study Work Green Technologies 25 Green Technologies II (part 2) Practical Exercise Environmental Technology 26 Biochemistry and Microbiology 27 Engineering Mechanics I (Stereostatics) Green Technologies II (part 1) Biochemistry PBL 1 Engineering Mechanics I Environmental Technologie 28 VL 2 GÜ 2 Engineering Mechanics I Pollutant analysis PBL 1 Engineering Mechanics I HÜ 1 30 31 32 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.