Course of Study Chemical and Bioprocess Engineering (Study Cohort w22)

Sample course plan C Bachelor Chemical and Bioprocess Engineering (CBBS) Dual study program Core Qualification Elective Compulsory Specialisation Elective Compulsory Interdisciplinary complement Specialisation Chemical Engineering orm Hrs/wk Semester 2 Form Hrs/wk Semester 4 Form Hrs/wk Semester 5 Form Hrs/wk Semester 6 Form Hrs/wk Mathematics I Technical Thermodynamics I Technical Thermodynamics II Fundamentals of Fluid Mechanics Heat and Mass Transfer Process and Plant Engineering I Fundamentals of Fluid Mechanics Process and Plant Engineering I VL 2 2 HŪ 2 Technical Thermodynamics I Technical Thermodynamics II Fluid Mechanics for Process Engineering Heat and Mass Transfer Process and Plant Engineering I HÜ 1 Mathematics I GÜ 2 Technical Thermodynamics I Technical Thermodynamics II Fundamentals on Fluid Mechanics GÜ 2 Heat and Mass Transfer Process and Plant Engineering I GÜ 1 5 Phase Equilibria Thermodynamics Thermal Separation Processes Particle Technology and Solids Process Engineering 8 GÜ Phase Equilibria Thermodynamics GÜ 1 Thermal Separation Processes GÜ 2 Particle Technology I GÜ 1 q General and Inorganic Chemistry MO 1 H0 1 DD 2 Mathematics II Analysis III Phase Equilibria Thermodynamics Thermal Separation Processes Particle Technology I General and Inorganic Chemistry PR 1 10 Differential Equations 1 VI 2 Separation Processes PR 3 Fundamentals in Inorganic Chemistry Differential Equations 1 11 Fundamentals in Inorganic Chemistry Differential Equations 1 12 13 Computer Science for Engineers - Programming Introduction to Control Systems **Fundamentals of Chemical Kinetics** Concepts, Data Handling & Communication Fundamentals of Chemical Kinetics 14 Computer Science for Engineers - Programming VL 3 Introduction to Control Systems GÜ 2 15 Practical module 1 (dual study program, Bachelor's Organic Chemistry Chemical Reaction Engineering (part 1) Concepts, Data Handling & Communication Organic Chemistry Chemical Reaction Engineering Computer Science for Engineers - Programming GÜ 2 16 Bachelor thesis (dual study program) Practical term 1 Concepts, Data Handling & Communication HÜ 2 Organic Chemistry Chemical Reaction Engineering 17 18 19 Measurement Technology for Chemical and Bioprocess Practical module 4 (dual study program, Bachelor's Practical module 5 (dual study program, Bachelor's 20 Measurement Technology Practical term 4 Practical term 5 21 Introduction to Chemical and Bioengineering **Fundamentals of Technical Drawing** Physical Fundamentals of Measurement Introduction to Chemical and Bioengineering VL 2 Fundamentals of Technical Drawing 22 Practical Course Measurement Technology Fundamentals of Technical Drawing 23 24 Biological and Biochemical Fundamentals (part 1) Practical module 2 (dual study program, Bachelor's degree) 25 Biological and Biochemical Fundamentals Practical module 3 (dual study program, Bachelor's Chemical Reaction Engineering (part 2) Economic and environmental project assessment Experimental Course Chemical Engineering Environmental Assessment Engineering Mechanics I (Stereostatics) Practical term 3 Case studies project assessment GÜ 1 Engineering Mechanics I VI 2 27 Renewable Energies VI 2 Engineering Mechanics I GÜ 2 Renewable Energies I Engineering Mechanics I HŪ 1 Renewable Energies II VL 2 29 Renewable Energies I HŪ 1 30 **Engineering Mechanics II (Elastostatics)** Engineering Mechanics II 31 **Construction and Apparatus Engineering** GÜ 2 Engineering Mechanics II Construction and Apparatus Engineering 32 Engineering Mechanics II Construction and Apparatus Engineering 33 Bioprocess Technology I - Fundamental Practical PR 2 34 35 36 Biological and Biochemical Fundamentals (part 2) Fundamental Biological and Biochemical Practical PR 3 37 Material Engineering 38 Introduction to the Biological and Biochemical VL 1 Practical Course 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.