Course of Study Bioprocess Engineering (Study Cohort w14)

Sample course plan D Bachelor Bioprocess Engineering (BVTBS)

Nontechnical Complementary Courses for Bachelors (from catalogue) - 6LP

32

Legend:

Core qualification Compulsory

Core qualification Elective

Specialisation Compulsory

Focus Compulsory

Thesis Compulsory

Interdisciplinary complement

Compulsory Compulsory ΙP Semester 1 FormHrs/wk Semester 2 FormHrs/wk Semester 3 FormHrs/wk Semester 4 FormHrs/wk Semester 5 FormHrs/wk Semester 6 FormHrs/wk **Engineering Mechanics I** Engineering Mechanics II Basics of Electrical Engineering **Fundamentals of Fluid Mechanics** Heat and Mass Transfer Thermal Separation Processes (part 2) Engineering Mechanics II Engineering Mechanics I VL 3 VL 3 Basics of Electrical Engineering VL 3 Fundamentals of Fluid Mechanics VL 2 Heat and Mass Transfer VL 2 Separation Processes PR 1 Engineering Mechanics I Engineering Mechanics II Basics of Electrical Engineering Exercises in Fluid Mechanics for Heat and Mass Transfer UE 1 2 Chemical Reaction Engineering (part 2) Process Engineering Experimental Course Chemical PR 2 3 Engineering 4 Process and Plant Engineering I Process and Plant Engineering I VI 2 5 Process and Plant Engineering I HÜ 1 6 Process and Plant Engineering I 7 Mathematics I Technical Thermodynamics I Technical Thermodynamics II Phase Equilibria Thermodynamics Thermal Separation Processes (part 1) Linear Algebra I VL 2 Technical Thermodynamics I VL 2 Technical Thermodynamics II VL 2 Thermodynamics III VL 2 Thermal Separation Processes VL 3 8 Linear Algebra I UE 1 Technical Thermodynamics I HÜ 1 Technical Thermodynamics II HÜ 1 Thermodynamics III UE 1 Thermal Separation Processes UE 2 9 Linear Algebra I HÜ 1 Technical Thermodynamics I UE 1 Technical Thermodynamics II UE 1 Thermodynamics III HÜ 1 Thermal Separation Processes HÜ 1 Analysis I VL 2 Particle Technology and Solids Process Analysis I UE 1 Engineering 11 HÜ 1 Analysis I Particle Technology I VL 2 12 Introduction to Control Systems Particle Technology I UE 1 Introduction to Control Systems VL 2 Particle Technology I PR 2 13 Biochemistry and Microbiology Mathematics III Foundations of Management Introduction to Control Systems UE 2 VL 2 Analysis III VL 2 Introduction to Management VL 4 Biochemistry 14 Biochemistry POL 1 Analysis III UE 1 Project Entrepreneurship POL 2 15 **Fundamentals in Inorganic Chemistry** Microbiology HÜ 1 VL 2 Analysis III Fundamentals in Inorganic Chemistry VL 4 VL 2 Microbiology Differential Equations 1 16 **Bachelor Thesis** Fundamentals in Inorganic Chemistry PR 3 Differential Equations 1 UE · 17 Differential Equations 1 HÜ 1 18 Chemical Reaction Engineering (part 1) Chemical Reaction Engineering Mathematics II 19 Informatics for Process Engineers Chemical Reaction Engineering HÜ 2 Linear Algebra II VL 2 Numeric and Matlah PR 2 20 UE Linear Algebra II Informatics for Process Engineers VL 2 21 **Fundamentals of Process Engineering** Fundamentals in Molecular Biology ΗÜ Linear Algebra II Informatics for Process Engineers Environmental Technologie Genetics and Molecular Biology 22 Analysis II VL 2 **Bioprocess Engineering - Advanced** Introduction into Process Genetics and Molecular Biology POL 1 ΗÜ Analysis II Bioprocess Engineering - Advanced VL 2 23 Engineering/Bioprocess Engineering Lab Course in Microbiology and PR 3 Analysis II Bioprocess Engineering - Advanced UE 2 24 Fundamentals of Technical Drawing VL 1 Biochemistry 25 **Bioprocess Engineering - Fundamentals** Fundamentals of Technical Drawing HÜ 1 Bioprocess Engineering and Materials 26 Fundamentals 27 Physics for VT/BVT/EUT-Engineers **Organic Chemistry** Bioprocess Engineering-HÜ 2 Physics for VT/BVT/EUT-Engineers VL 2 Organic Chemistry VL 4 Fundamentals 28 Physics for VT/BVT/EUT-Engineers UE 1 Organic Chemistry PR 3 Bioprocess Engineering PR 2 29 Physics-Lab for VT/BVT/EUT-Fundamental Practical Course Engineers 30 31

