Course of Study Bioprocess Engineering (Study Cohort w15)

Sample course plan B Bachelor Bioprocess Engineering (BVTBS)

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Drawing and Materials

Organic Chemistry

VL 4

PR 3

Organic Chemistry

Organic Chemistry

VL 2

Physics

Physics

Physics

Specialisation Compulsory Focus Compulsory Thesis Compulsory Core qualification Elective Specialisation Elective Focus Elective Compulsory Interdisciplinary complement Compulsory Compulsory Formirs/w8/emester 2 FornHrs/w8emester 4 FormHrs/w8kemester 5 Formers/w8emester 6 Semester 1 Fornhirs/w8emester 3 FornHrs/wk **Engineering Mechanics I Engineering Mechanics II** Heat and Mass Transfer Thermal Separation Processes **Basics of Electrical Engineering Fundamentals of Fluid Mechanics** (part 2) Engineering Mechanics I VL 3 VL 3 Fundamentals of Fluid VL 2 Engineering Mechanics II VL 3 Basics of Electrical Heat and Mass Transfer Separation Processes PR 1 Engineering Engineering Mechanics I UE 2 Engineering Mechanics II UE 2 Heat and Mass Transfer UE 1 Basics of Electrical UE 2 Fluid Mechanics for Process HÜ 2 Heat and Mass Transfer HÜ 1 **Chemical Reaction Engineering** Engineering Engineering (part 2) Experimental Course PR 2 Chemical Engineering Process and Plant Engineering I Process and Plant VL 2 Engineering I HÜ 1 Process and Plant Mathematics I Technical Thermodynamics I Technical Thermodynamics II Phase Equilibria Thermodynamics **Thermal Separation Processes** Engineering I (part 1) VL 2 VL 2 Technical Thermodynamics VL 2 Linear Algebra I Technical Thermodynamics I VL 2 Thermodynamics III Thermal Separation Process and Plant UE 1 UE Linear Algebra I UE 1 Technical Thermodynamics I HÜ 1 Thermodynamics III Engineering I Processes Technical Thermodynamics HÜ 1 HÜ 1 Technical Thermodynamics I UE 1 Thermodynamics III HÜ 1 Linear Algebra I Thermal Separation UE 2 VL 2 Particle Technology and Solids Analysis I **Processes** Technical Thermodynamics UE 1 **Process Engineering** UE 1 Analysis I Thermal Separation HÜ 1 Particle Technology I VL 2 HÜ 1 Analysis I Processes UE 1 Particle Technology I **Introduction to Control Systems** Particle Technology I PR 2 **Biochemistry and Microbiology** Mathematics III Foundations of Management Introduction to Control VL 2 Systems Biochemistry Analysis III VL 2 Introduction to Management UE 2 General and Inorganic Chemistry Introduction to Control PBL 1 UE 1 PBL 2 Biochemistry Analysis III Project Entrepreneurship Systems **Bachelor Thesis** Fundamentals in Inorganic Microbiology VL 2 Analysis III HÜ 1 Chemistry PBL 1 Differential Equations 1 VL 2 Microbiology Fundamentals in Inorganic PR 3 Chemical Reaction Engineering Differential Equations 1 UE 1 Chemistry (part 1) Mathematics II Informatics for Process Engineers HÜ 1 Differential Equations 1 **Chemical Reaction** VL 2 Numeric and Matlab PR 2 Linear Algebra II VL 2 Engineering **Fundamentals of Process** Fundamentals in Molecular VL 2 Linear Algebra II UE 1 Informatics for Process HÜ 2 Chemical Reaction Engineering Biology Engineers HÜ 1 Linear Algebra II Engineering Environmental Technologie VL 2 Genetics and Molecular VL 2 Informatics for Process UE 2 VL 2 Analysis II Biology Engineers Introduction into Process VL 2 Analysis II HÜ 1 Bioprocess Engineering -Genetics and Molecular PBL 1 Engineering/Bioprocess Advanced UE 1 Analysis II Engineering Biology Bioprocess Engineering -VL 2 Fundamentals of Technical Lab Course in Microbiology PR 3 Advanced Bioprocess Engineering -Drawing and Materials and Biochemistry **Fundamentals** Bioprocess Engineering -UE 2 Fundamentals of Technical

Bioprocess Engineering -

Bioprocess Engineering-

Bioprocess Engineering -

Fundamentals

Fundamentals

Advanced

VL 2

HÜ 2

PR 2

0 Physics-Lab for VT/ BVT/ EUT	PR 2	Fundamental Practica Course
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Nontechnical Complementary 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.