Course of Study Bioprocess Engineering (Study Cohort w24)

Sample course plan B Master Bioprocess Engineering (BVTMS)

ecialisation B - Industrial Bioprocess Engineerin	ng							
Transport Processes Heat & Mass Transfer in Process Engineering Multiphase Flows Reactor design under consideration of local transport processes	VL	2 2 2	Advanced Chemical Reaction Engineering Chemical Reaction Engineering Chemical Reaction Engineering Experimental Course Chemical Engineering	VL 2 HÜ 2 PR 2	Process Design Project Process Design Project	PK	6	Master Thesis
Separation Technologies for Life Sciences Chromatographic Separation Processes Unit Operations for Bio-Related Systems Unit Operations for Bio-Related Systems 0 1 2	VL	2 2 2	Bioprocess and Biosystems Engineering Bioreactor Design and Operation Biosystems Engineering Bioreactors and Biosystems Engineering	VL 2 VL 2 PBL 1	Bioprocess Engineering Advanced Practical Course Advanced Practical Course in Microbiology Bioprocess Engineering Advanced Practical Course	PR PR	3	
3 Biocatalysis 4 Technical Biocatalysis 5 Biocatalysis and Enzyme Technology 6 7 8 8		2 2	Technical Microbiology Applied Molecular Biology Technical Microbiology Technical Microbiology	VL 2 VL 2 HÜ 1	Cell and Tissue Engineering Fundamentals of Cell and Tissue Engineering Bioprocess Engineering for Medical Applications		2 2	
9 Process modeling and control Process modeling and control		2 3	Industrial Bioprocess Engineering Biotechnical Processes Development of bioprocess engineering processes in industrial practice	PBL 2 SE 2	Industrial Bioprocesses in Practice Practice in bioprocess engineering Industrial biotechnology in Chemical Industriy		2 2	
15 16 17 18 19 10					Study work Bioprocess Engineering Study Work Bioprocess Engineering	PR	6	
Business & Management (from catalogue) - 6LP								
Non-technical Courses for Master (from catalogue) -	6LP							

Focus Compulsory

Core Qualification Elective Compulsory Specialisation Elective Compulsory Focus Elective Compulsory

Thesis Compulsory

Interdisciplinary complement

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