Course of Study Chemical and Bioprocess Engineering (Study Cohort w17)

Sample course plan C Master Chemical and Bioprocess Engineering (IMPCBE) Specialisation General Process Engineering

Nontechnical Elective Complementary Courses for Master (from catalogue) - 6LP

Legend:

Core qualification Compulsory	Specialisation Compulsory	Focus Compulsory	Thesis Compulsory
Core qualification Elective Compulsory	Specialisation Elective Compulsory	Focus Elective Compulsory	Interdisciplinary complement

LP	Semester 1	Form Hrs/v	kSemester 2	Form Hrs/w	kSemester 3	Form Hrs/w	kSemester 4 Form Hrs/w
1 2 3 4 5 6	Applied Thermodynamics: Thermodynam Properties for Industrial Applications Applied Thermodynamics: Thermodynamic Properties for Industrial Applications Applied Thermodynamics: Thermodynamic Properties for Industrial Applications	VL 4	Bioprocess and Biosystems Engineering Bioreactor Design and Operation Bioreactor Design and Operation Biosystems Engineering Biosystems Engineering	VL 2 PR 1 VL 2 PBL 1	Process Design Project Process Design Project	PK 6	Master Thesis
7 8 9 10 11 12	Separation Technologies for Life Science Chromatographic Separation Processes Unit Operations for Bio-Related Systems Unit Operations for Bio-Related Systems	vs VL 2 VL 2 VL 2 PBL 2	Heterogeneous Catalysis Analysis and Design of Heterogeneous Catalytic Reactors Modern Methods in Heterogeneous Catalysis Modern Methods in Heterogeneous Catalysis	VL 2 VL 2 PR 2	Research project IMP Chemical and Bid Engineering Research Project IMP Chemical and Bioprocess Engineering	oprocess PBL 6	
13 14 15 16 17	Biocatalysis Technical Biocatalysis Biocatalysis and Enzyme Technology	VL 2 VL 2	Technical Microbiology Applied Molecular Biology Technical Microbiology Technical Microbiology	VL 2 VL 2 HÜ 1	Industrial Process Automation Industrial Process Automation Industrial Process Automation	VL 2 UE 2	
19 20 21 22 23 24	Process Systems Engineering and Transp Processes Heat & Mass Transfer in Process Engineering Multiphase Flows Process Systems Engineering	VL 2 VL 2 VL 2	High Pressure Chemical Engineering Advanced Separation Processes Industrial Processes Under High Pressure High Pressure Technique for Apparatus Engineering	VL 2 VL 2 VL 2			
25 26 27 28 29 30	Particle Technology for International Mas Programs Particle Technology for IMP Practicle Course Particle Technology for IMP Business & Management (from catalogue) - 6	VL 2 PR 3	Numerical Treatment of Ordinary Differer Equations Numerical Treatment of Ordinary Differential Equations Numerical Treatment of Ordinary Differential Equations	VL 2			

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