Course of Study Bioprocess Engineering (Study Cohort w18) Core qualification Compulsory

Sample course plan A Master Bioprocess Engineering (BVTMS)

Specia	lisation A - General Bioprocess Engineering]				Core qualification Elective Compulsory	Specialisation E Compulsory	ective Focus Elective Compulsory	nterdisciplinary complement	
LP	Semester 1	Form Hrs/w	/kSemester 2	Form Hr	rs/wkSe	emester 3	Form Hrs/w	kSemester 4	Forn	m Hrs/wk
1 2 3 4 5 6	Transport Processes Heat & Mass Transfer in Process Engineering Multiphase Flows Reactor Design Using Local Transport Processes	VL 2 VL 2 PBL 2	Advanced Chemical Reaction Engineer Chemical Reaction Engineering Chemical Reaction Engineering Experimental Course Chemical Engineering	Pring VL 2 HÜ 2 PR 2	2 Pr 2 2	rocess Design Project rocess Design Project	РК б	Dimensioning and Assessme Energy Systems (part 2) Heat Provision from Renewable of Energy Master Thesis	nt of Renewa	able 2
7 8 9 10 11 12	Process and Plant Engineering II Process and Plant Engineering II Process and Plant Engineering II Process and Plant Engineering II	VL 2 HÜ 1 UE 1	Bioprocess and Biosystems Engineer Bioreactor Design and Operation Biosystems Engineering Bioreactors and Biosystems Engineering	i ng VL 2 VL 2 PBL 1	2 2 2 1 Bio Pr	ioprocess Engineering Advanced Pr ourse dvanced Practical Course in icrobiology ioprocess Engineering Advanced ractical Course	PR 3 PR 3 PR 3			
13 14 15 16 17 18	Separation Technologies for Life Scie Chromatographic Separation Processes Unit Operations for Bio-Related Systems Unit Operations for Bio-Related Systems	VL 2 VL 2 VL 2 PBL 2	Technical Microbiology Applied Molecular Biology Technical Microbiology Technical Microbiology	VL 2 VL 2 HÜ 3	2 Ac 2 Ac 1 Ac Ex	article Technology and Solid Matter echnology dvanced Particle Technology II dvanced Particle Technology II kperimental Course Particle Technology	VL 2 PBL 1 PR 3			
19 20 21 22 23 24	Biocatalysis Technical Biocatalysis Biocatalysis and Enzyme Technology	VL 2 VL 2	Cell and Tissue Engineering Fundamentals of Cell and Tissue Engineering Bioprocess Engineering for Medical Applications	VL 2 VL 2	2 St	tudy work Bioprocess Engineering cudy Work Bioprocess Engineering	PR 6			
25 26 27 28 29 30					Di Elu Sco Err Ecc	imensioning and Assessment of Re nergy Systems (part 1) ectricity Generation from Renewable burces of Energy nvironmental Technology and Energy conomics	newable SE 2 PBL 2			
31 32	Business & Management (from catalogue) Nontechnical Elective Complementary Cou	- 6LP urses for Mas	ster (from catalogue) - 6LP							

Specialisation Compulsory Focus Compulsory

Thesis Compulsory

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