Course of Study Bioprocess Engineering (Study Cohort w19)

ample course plan A Master Bioprocess	Engineering (BVTMS)		Core Qualification Elective Compulsory Special	alisation Compu alisation Elective	
pecialisation A - General Bioprocess Eng		Semester 2	Form Hrs/wk	Semester 3 Fo	orm Hrs/wk	Semester 4 Form Hrs/wk
Transport Processes Heat & Mass Transfer in Process Engineering Multiphase Flows	VL 2 VL 2	Advanced Chemical Reaction Engineering Chemical Reaction Engineering	VL 2 HÜ 2	Process Design Project Process Design Project	PK 6	Dimensioning and Assessment of Renewable Energy Systems (part 2) Heat Provision from Renewable Sources of Energy SE 2
Reactor Design Using Local Transport Processes	PBL 2	Chemical Reaction Engineering Experimental Course Chemical Engineering	PR 2			Master Thesis
Process and Plant Engineering II		Bioprocess and Biosystems Engineering		Bioprocess Engineering Advanced Practical Course		
Process and Plant Engineering II	VL 2	Bioreactor Design and Operation	VL 2		PR 3	
Process and Plant Engineering II	HÜ 1 GÜ 1	Biosystems Engineering	VL 2 PBL 1	Bioprocess Engineering Advanced Practical Course	PR 3	
LO	GU I	Bioreactors and Biosystems Engineering	PBL I			
12						
Separation Technologies for Life Sciences		Technical Microbiology		Particle Technology and Solid Matter Process Technology		
Chromatographic Separation Processes	VL 2	Applied Molecular Biology	VL 2		/L 2	
Unit Operations for Bio-Related Systems	VL 2	Technical Microbiology	VL 2		BL 1	
Unit Operations for Bio-Related Systems L6	PBL 2	Technical Microbiology	HÜ 1	Experimental Course Particle Technology F	PR 3	
17						
19 Biocatalysis		Cell and Tissue Engineering		Study work Bioprocess Engineering		
Technical Biocatalysis	VL 2	Fundamentals of Cell and Tissue Engineering	VL 2	Study Work Bioprocess Engineering	PR 6	
Biocatalysis and Enzyme Technology	VL 2	Bioprocess Engineering for Medical Applications	VL 2			
22						
23						
25				Dimensioning and Assessment of Renewable Energy Systems (part 1)		
26				Electricity Generation from Renewable Sources of Energy	SE 2	
27				Environmental Technology and Energy Economics P	BL 2	
28						
29						
30						
31						
32						
Business & Management (from catalogue) -	- 6LP					
Non-technical Courses for Master (from cat	talogue) - 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.