

Course of Study Bioprocess Engineering (Study Cohort w17)

Sample course plan A Master Bioprocess Engineering (BVTMS)
Specialisation A - General Bioprocess Engineering

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/wk	Semester 2	Form	Hrs/wk	Semester 3	Form	Hrs/wk	Semester 4	Form	Hrs/wk					
1	Transport Processes	VL	2	Advanced Chemical Reaction Engineering	VL	2	Process Design Project	PK	6	Dimensioning and Assessment of Renewable Energy Systems (part 2)	SE	2					
2													Heat & Mass Transfer in Process Engineering	Chemical Reaction Engineering	Chemical Reaction Engineering	Process Design Project	Heat Provision from Renewable Sources of Energy
													Multiphase Flows	Chemical Reaction Engineering			
3													Reactor Design Using Local Transport Processes	Experimental Course Chemical Engineering			
4																	
5																	
6										Master Thesis							
7	Process and Plant Engineering II	VL	2	Bioprocess and Biosystems Engineering	VL	2	Bioprocess Engineering Advanced Practical Course	PR	3								
8											Process and Plant Engineering II	Bioreactor Design and Operation	Advanced Practical Course in Microbiology				
9											Process and Plant Engineering II	Bioreactor Design and Operation	Bioprocess Engineering Advanced Practical Course				
10											Process and Plant Engineering II	Biosystems Engineering					
11											Process and Plant Engineering II	Biosystems Engineering					
12																	
13	Separation Technologies for Life Sciences	VL	2	Technical Microbiology	VL	2	Particle Technology and Solid Matter Process Technology	VL	2								
14											Chromatographic Separation Processes	Applied Molecular Biology	Advanced Particle Technology II				
15											Unit Operations for Bio-Related Systems	Technical Microbiology	Advanced Particle Technology II				
16											Unit Operations for Bio-Related Systems	Technical Microbiology	Experimental Course Particle Technology				
17																	
18																	
19	Biocatalysis	VL	2	Cell and Tissue Engineering	VL	2	Study work Bioprocess Engineering	PR	6								
20											Technical Biocatalysis	Fundamentals of Cell and Tissue Engineering	Study Work Bioprocess Engineering				
21											Biocatalysis and Enzyme Technology	Bioprocess Engineering for Medical Applications					
22																	
23																	
24																	
25							Dimensioning and Assessment of Renewable Energy Systems (part 1)	SE	2								
26																	
27																	
28																	
29								PBL	2								
30																	
31																	
32																	
	Business & Management (from catalogue) - 6LP																
	Nontechnical Elective Complementary Courses for Master (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.