

## Course of Study Bioprocess Engineering (Study Cohort w17)

Sample course plan B Master Bioprocess Engineering (BVTMS)  
Specialisation B - Industrial 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	<b>Transport Processes</b>			<b>Advanced Chemical Reaction Engineering</b>			<b>Process Design Project</b>			<b>Master Thesis</b>		
2	Heat & Mass Transfer in Process	VL	2	Chemical Reaction Engineering	VL	2	Process Design Project	PK	6			
3	Engineering			Chemical Reaction Engineering	HÜ	2						
4	Multiphase Flows	VL	2	Experimental Course Chemical Engineering	PR	2						
5	Reactor Design Using Local Transport	PBL	2									
6	Processes											
7	<b>Process and Plant Engineering II</b>			<b>Bioprocess and Biosystems Engineering</b>			<b>Bioprocess Engineering Advanced Practical Course</b>					
8	Process and Plant Engineering II	VL	2	Bioreactor Design and Operation	VL	2	Advanced Practical Course in Microbiology	PR	3			
9	Process and Plant Engineering II	HÜ	1	Bioreactor Design and Operation	PR	1	Bioprocess Engineering Advanced Practical	PR	3			
10	Process and Plant Engineering II	UE	1	Biosystems Engineering	VL	2	Course					
11				Biosystems Engineering	PBL	1						
12												
13	<b>Separation Technologies for Life Sciences</b>			<b>Technical Microbiology</b>			<b>Synthesis and Design of Industrial Processes</b>					
14	Chromatographic Separation Processes	VL	2	Applied Molecular Biology	VL	2	Synthesis and Design of Industrial Facilities	VL	1			
15	Unit Operations for Bio-Related Systems	VL	2	Technical Microbiology	VL	2	Industrial Plant Design and Economics	PBL	3			
16	Unit Operations for Bio-Related Systems	PBL	2	Technical Microbiology	HÜ	1						
17												
18												
19	<b>Biocatalysis</b>			<b>Cell and Tissue Engineering</b>			<b>Industrial Bioprocess Engineering</b>					
20	Technical Biocatalysis	VL	2	Fundamentals of Cell and Tissue	VL	2	Biotechnical Processes	PBL	2			
21	Biocatalysis and Enzyme Technology	VL	2	Engineering			Trends in Industrial Biocatalysis	SE	2			
22				Bioprocess Engineering for Medical	VL	2						
23				Applications								
24												
25							<b>Study work Bioprocess Engineering</b>					
26							Study Work Bioprocess Engineering	PR	6			
27												
28												
29												
30												
	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.