

Course of Study Bioprocess Engineering (Study Cohort w19)

Sample course plan B Master Bioprocess Engineering (BVTMS)

Specialisation B - Industrial Bioprocess Engineering

		Semester 2		Semester 3		Semester 4		
	Form	Hrs/wk	Form	Hrs/wk	Form	Hrs/wk	Form	Hrs/wk
1	Transport Processes		Advanced Chemical Reaction Engineering		Process Design Project		Master Thesis	
2	Heat & Mass Transfer in Process Engineering VL 2		Chemical Reaction Engineering VL 2		Process Design Project PK 6			
3	Multiphase Flows VL 2		Chemical Reaction Engineering HÜ 2					
4	Reactor Design Using Local Transport Processes PBL 2		Experimental Course Chemical Engineering PR 2					
5								
6								
7	Process and Plant Engineering II		Bioprocess and Biosystems Engineering		Bioprocess Engineering Advanced Practical Course			
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		Biosystems Engineering VL 2		Bioprocess Engineering Advanced Practical Course PR 3			
10	Process and Plant Engineering II GÜ 1		Bioreactors and Biosystems Engineering PBL 1					
11								
12								
13	Separation Technologies for Life Sciences		Technical Microbiology		Synthesis and Design of Industrial Processes			
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	Biocatalysis		Cell and Tissue Engineering		Industrial Bioprocess Engineering			
20	Technical Biocatalysis VL 2		Fundamentals of Cell and Tissue Engineering VL 2		Biotechnical Processes PBL 2			
21	Biocatalysis and Enzyme Technology VL 2		Bioprocess Engineering for Medical Applications VL 2		Development of bioprocess engineering processes in industrial practice SE 2			
22								
23								
24								
25					Study work Bioprocess Engineering			
26					Study Work Bioprocess Engineering PR 6			
27								
28								
29								
30								
Business & Management (from catalogue) - 6LP								
Non-technical 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.

