

Course of Study Bioprocess Engineering (Study Cohort w17)

Sample course plan A Bachelor Bioprocess Engineering (BVTBS)

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	FormHrs/wk	Semester 2	FormHrs/wk	Semester 3	FormHrs/wk	Semester 4	FormHrs/wk	Semester 5	FormHrs/wk	Semester 6	FormHrs/wk
1	Engineering Mechanics I	VL 3 UE 2	Engineering Mechanics II	VL 3 UE 2	Basics of Electrical Engineering	VL 3 UE 2	Fundamentals of Fluid Mechanics	VL 2 HÜ 2	Heat and Mass Transfer	VL 2 UE 1 HÜ 1	Chemical Reaction Engineering (part 2)	PR 2
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8	Mathematics I	VL 2 UE 1 HÜ 1	Technical Thermodynamics I	VL 2 HÜ 1	Technical Thermodynamics II	VL 2 HÜ 1	Phase Equilibria Thermodynamics	VL 2 UE 1	Thermal Separation Processes	VL 2 UE 2 HÜ 1	Process and Plant Engineering I	HÜ 1 UE 1
9												
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12												
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14												
15	General and Inorganic Chemistry	VL 4 PR 3	Biochemistry and Microbiology	VL 2 PBL 1 VL 2 PBL 1	Mathematics III	VL 2 UE 1 HÜ 1	Foundations of Management	VL 3 HÜ 2	Introduction to Control Systems	VL 2 UE 2	Bachelor Thesis	
16												
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22	Fundamentals of Process Engineering	VL 2 PR 2	Mathematics II	VL 2 HÜ 1 UE 1	Fundamentals in Molecular Biology	VL 2 PBL 1	Informatics for Process Engineers	PR 2 VL 2 UE 2	Chemical Reaction Engineering (part 1)	VL 2 HÜ 2	Bioprocess Engineering - Advanced	VL 2 UE 2
23												
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29	Physics	VL 2 UE 1	Organic Chemistry	VL 4 PR 3	Lab Course in Microbiology and Biochemistry	PR 3	Bioprocess Engineering - Fundamentals	VL 2 HÜ 2	Bioprocess Engineering - Advanced	UE 2		
30												
	Fundamentals of technical drawing	VL 1					Bioprocess Engineering - Fundamentals	VL 2 HÜ 2	Bioprocess Engineering - Advanced			
							Bioprocess Engineering - Fundamental Practical Course	PR 2				

31	Drawing	
32	Fundamentals of Technical HÜ 1 Drawing	

Nontechnical Complementary Courses for Bachelors (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.