

# Course of Study Bioprocess Engineering (Study Cohort w17)

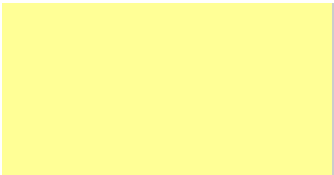
Sample course plan D Bachelor Bioprocess Engineering (BVTBS)

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	<b>Engineering Mechanics I</b>	VL 3	<b>Engineering Mechanics II</b>	VL 3	<b>Basics of Electrical Engineering</b>	VL 3	<b>Fundamentals of Fluid Mechanics</b>	VL 2	<b>Heat and Mass Transfer</b>	VL 2	<b>Chemical Reaction Engineering (part 2)</b>	PR 2															
2													Engineering Mechanics I	Engineering Mechanics II	Basics of Electrical Engineering	Fundamentals of Fluid Mechanics	Heat and Mass Transfer	Experimental Course Chemical Engineering									
3													Engineering Mechanics I	Engineering Mechanics II	Basics of Electrical Engineering	Fluid Mechanics for Process Engineering	Heat and Mass Transfer	<b>Process and Plant Engineering I</b>									
4																	HÜ 1										
5																											
6																											
7													<b>Mathematics I</b>	VL 2	<b>Technical Thermodynamics I</b>	VL 2	<b>Technical Thermodynamics II</b>	VL 2	<b>Phase Equilibria Thermodynamics</b>	VL 2	<b>Thermal Separation Processes</b>	VL 2	HÜ 1	HÜ 1			
8	Linear Algebra I	Technical Thermodynamics I	Technical Thermodynamics II	Phase Equilibria Thermodynamics	Thermal Separation Processes	Process and Plant Engineering I																					
9	Linear Algebra I	Technical Thermodynamics I	Technical Thermodynamics II	Phase Equilibria Thermodynamics	Thermal Separation Processes	Process and Plant Engineering I																					
10	Linear Algebra I	Technical Thermodynamics I	Technical Thermodynamics II	Phase Equilibria Thermodynamics	Thermal Separation Processes	<b>Particle Technology and Solids Process Engineering</b>																					
11	Analysis I	Technical Thermodynamics I	Technical Thermodynamics II	Phase Equilibria Thermodynamics	Thermal Separation Processes																						
12	Analysis I	Technical Thermodynamics I	Technical Thermodynamics II	Phase Equilibria Thermodynamics	Thermal Separation Processes																						
13	Analysis I	Technical Thermodynamics I	Technical Thermodynamics II	Phase Equilibria Thermodynamics	Thermal Separation Processes																						
14	<b>General and Inorganic Chemistry</b>	VL 4	<b>Biochemistry and Microbiology</b>	VL 2	<b>Mathematics III</b>	VL 2	<b>Foundations of Management</b>	VL 3	<b>Introduction to Control Systems</b>	VL 2	<b>Environmental Technology (part 2)</b>	PR 1															
15													Fundamentals in Inorganic Chemistry	Biochemistry	Analysis III	Introduction to Management	Introduction to Control Systems										
16													Fundamentals in Inorganic Chemistry	Biochemistry	Analysis III	Management Tutorial	Introduction to Control Systems										
17													Fundamentals in Inorganic Chemistry	Microbiology	Analysis III		Introduction to Control Systems										
18													Fundamentals in Inorganic Chemistry	Microbiology	Differential Equations 1		Introduction to Control Systems										
19													Fundamentals in Inorganic Chemistry	Microbiology	Differential Equations 1												
20													Fundamentals in Inorganic Chemistry	Microbiology	Differential Equations 1												
21	<b>Fundamentals of Process Engineering</b>	VL 2	<b>Mathematics II</b>	VL 2	<b>Fundamentals in Molecular Biology</b>	VL 2	<b>Informatics for Process Engineers</b>	PR 2	<b>Chemical Reaction Engineering (part 1)</b>	VL 2	PR 1	<b>Bachelor Thesis</b>															
22													Introduction into Process Engineering/Bioprocess Engineering	Linear Algebra II	Genetics and Molecular Biology	Numeric and Matlab	Chemical Reaction Engineering										
23													Fundamentals of material engineering	Linear Algebra II	Genetics and Molecular Biology	Informatics for Process Engineers	Chemical Reaction Engineering										
24													<b>Physics</b>	VL 2	<b>Organic Chemistry</b>	VL 4	PBL 1	PBL 1	<b>Bioprocess Engineering - Advanced</b>	VL 2	<b>Bioprocess Engineering - Advanced</b>	VL 2					
25																							Physics	Analysis II	Genetics and Molecular Biology	Informatics for Process Engineers	Bioprocess Engineering - Advanced
26																							Physics	Analysis II	Genetics and Molecular Biology	Informatics for Process Engineers	Bioprocess Engineering - Advanced
27																							Physics	Analysis II	Genetics and Molecular Biology	Informatics for Process Engineers	Bioprocess Engineering - Advanced
28	Physics-Lab for VT/ BVT/ EUT	Analysis II	Genetics and Molecular Biology	Informatics for Process Engineers	Bioprocess Engineering - Advanced																						
29			Lab Course in Microbiology and Biochemistry	Bioprocess Engineering - Fundamentals	Bioprocess Engineering - Advanced																						
30			Organic Chemistry	Bioprocess Engineering - Fundamentals	Bioprocess Engineering - Advanced																						
			Organic Chemistry	Bioprocess Engineering - Fundamentals	Bioprocess Engineering - Advanced	<b>Environmental Technology</b>																					

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Fundamentals Bioprocess Engineering - Fundamental Practical Course	PR 2	<b>(part 1)</b> Environmental Technologie	VL 2
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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.