

Course of Study Bioprocess Engineering (Study Cohort w16)

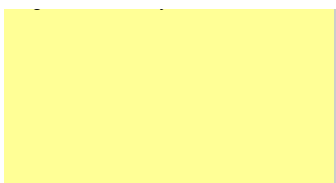
Sample course plan C Bachelor Bioprocess Engineering (BVTBS)

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

30
31
32
33



Fundamentals		
Bioprocess Engineering - Fundamental Practical Course	PR	2
Environmental Technology		
Environmental Assessment	VL	2
Environmental Assessment	UE	1

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.