

Course of Study Bioprocess Engineering (Study Cohort w18)

Semester	Semester 1		Semester 2		Semester 3		Semester 4		Semester 5		Semester 6	
	Form	Hrs/wk	Form	Hrs/wk	Form	Hrs/wk	Form	Hrs/wk	Form	Hrs/wk	Form	Hrs/wk
1	Engineering Mechanics I		Engineering Mechanics II		Basics of Electrical Engineering		Fundamentals of Fluid Mechanics		Heat and Mass Transfer		Chemical Reaction Engineering (part 2)	
2	Engineering Mechanics I	VL 3	Engineering Mechanics II	VL 3	Basics of Electrical Engineering	VL 3	Fundamentals of Fluid Mechanics	VL 2	Heat and Mass Transfer	VL 2	Experimental Course Chemical Engineering	PR 2
3	Engineering Mechanics I	GÜ 2	Engineering Mechanics II	GÜ 2	Basics of Electrical Engineering	GÜ 2	Fluid Mechanics for Process Engineering	HÜ 2	Heat and Mass Transfer	GÜ 1	Process and Plant Engineering I	
4									Heat and Mass Transfer	HÜ 1	Process and Plant Engineering I	VL 2
5											Process and Plant Engineering I	HÜ 1
6											Process and Plant Engineering I	GÜ 1
7	Mathematics I		Technical Thermodynamics I		Technical Thermodynamics II		Phase Equilibria Thermodynamics		Thermal Separation Processes			
8	Linear Algebra I	VL 2	Technical Thermodynamics I	VL 2	Technical Thermodynamics II	VL 2	Phase Equilibria Thermodynamics	VL 2	Thermal Separation Processes	VL 2		
9	Linear Algebra I	GÜ 1	Technical Thermodynamics I	HÜ 1	Technical Thermodynamics II	HÜ 1	Phase Equilibria Thermodynamics	GÜ 1	Thermal Separation Processes	GÜ 2		
10	Linear Algebra I	HÜ 1	Technical Thermodynamics I	GÜ 1	Technical Thermodynamics II	GÜ 1	Phase Equilibria Thermodynamics	HÜ 1	Thermal Separation Processes	HÜ 1	Particle Technology and Solids Process Engineering	
11	Analysis I	VL 2							Separation Processes	PR 1	Particle Technology I	VL 2
12	Analysis I	GÜ 1									Particle Technology I	GÜ 1
13											Particle Technology I	PR 2
14			Biochemistry and Microbiology		Mathematics III		Foundations of Management		Introduction to Control Systems			
15	General and Inorganic Chemistry		Biochemistry	VL 2	Analysis III	VL 2	Introduction to Management	VL 3	Introduction to Control Systems	VL 2		
16	General and Inorganic Chemistry	VL 3	Biochemistry	PBL 1	Analysis III	GÜ 1	Management Tutorial	HÜ 2	Introduction to Control Systems	GÜ 2		
17	Fundamentals in Inorganic Chemistry	PR 3	Microbiology	VL 2	Analysis III	HÜ 1						
18	Fundamentals in Inorganic Chemistry	GÜ 1	Microbiology	PBL 1	Differential Equations 1	VL 2						
19					Differential Equations 1	GÜ 1						
20					Differential Equations 1	HÜ 1						
21	Fundamentals of Process Engineering and Material Engineering		Mathematics II		Fundamentals in Molecular Biology		Informatics for Process Engineers		Chemical Reaction Engineering (part 1)			
22	Introduction into Process Engineering/Bioprocess Engineering	VL 2	Linear Algebra II	VL 2	Genetics and Molecular Biology	VL 2	Numeric and Matlab	PR 2	Chemical Reaction Engineering	VL 2		
23	Engineering		Linear Algebra II	GÜ 1	Genetics and Molecular Biology	PBL 1	Informatics for Process Engineers	VL 2	Chemical Reaction Engineering	HÜ 2		
24	Fundamentals of material engineering	VL 2	Linear Algebra II	HÜ 1	Genetics and Molecular Biology	GÜ 1	Informatics for Process Engineers	GÜ 2				
25	Physics		Analysis II	VL 2	Lab Course in Microbiology and Biochemistry	PR 3			Bioprocess Engineering - Advanced			
26	Physics	VL 2	Analysis II	HÜ 1					Bioprocess Engineering - Advanced	VL 2		
27	Physics-Lab for VT/ BVT/ EUT	PR 2	Analysis II	GÜ 1					Bioprocess Engineering - Advanced	GÜ 2		
28			Organic Chemistry									
29			Organic Chemistry	VL 4								
30			Organic Chemistry	PR 3								
31												
32												
33												

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.

