## Course of Study Bioprocess Engineering (Study Cohort w 17)

Sample course plan B Bachelor Bioprocess Engineering (BVTBS)

Core qualification Elective
Compulsory

Specialisation Elective
Compulsory

Focus Elective Compulsory

Interdisciplinary
complement

							Compuiso	ı y	Compulsory		complement	
LP	Semester 1 For	rn <del>h</del> irs/	wBemester 2	Formirs	/v8emester 3	Forn <b>H</b> rs/	v8emester 4	Formirs	/v8emester 5	Fornirs/	w⊌emester 6	Forn <del>h</del> rs/v
2	3	L 3 E 2	<b>Engineering Mechanics</b> Engineering Mechanics II Engineering Mechanics II	VL 3	Basics of Electrical Engineering Basics of Electrical Engineering Basics of Electrical	VL 3	Fundamentals of Fluid Mechanics Fundamentals of Fluid Mechanics Fluid Mechanics for	VL 2 HÜ 2	Heat and Mass Transfer Heat and Mass Transfer Heat and Mass Transfer Heat and Mass Transfer	VL 2 UE 1 HÜ 1	Chemical Reaction Engineering (part 2) Experimental Course Chemical Engineering	PR 2
4 5 6					Engineering	02 2	Process Engineering	110 2			Process and Plant Engi I Process and Plant Engineering I	VL 2
8	3	L 2 E 1	<b>Technical Thermodynan</b> Technical Thermodynamics I	VL 2	Technical Thermodynam Technical Thermodynamics II	VL 2	Phase Equilibria Thermodynamics Phase Equilibria Thermodynamics	VL 2	Thermal Separation Pro Thermal Separation Processes	VL 2	Process and Plant Engineering I Process and Plant Engineering I	HÜ 1 UE 1
9 10 11	Analysis I VL Analysis I UE	Ü 1 L 2 E 1 Ü 1	Technical Thermodynamics I Technical Thermodynamics I	HÜ 1 UE 1	Technical Thermodynamics II Technical Thermodynamics II	HÜ 1 UE 1	Phase Equilibria Thermodynamics Phase Equilibria Thermodynamics	UE 1 HÜ 1	Thermal Separation Processes Thermal Separation Processes	UE 2 HÜ 1	Particle Technology an Solids Process Enginee Particle Technology I	
12 13 14	Allalysis i	<i>J</i> 1	<b>Biochemistry and Micro</b> Biochemistry	<b>biology</b> VL 2	Mathematics III Analysis III	VL 2	Foundations of Manage	ment VL 3	Separation Processes  Introduction to Control Systems	PR 1	Particle Technology I Particle Technology I	UE 1 PR 2
15 16 17 18	General and Inorganic Chemistry Fundamentals in Inorganic VL Chemistry	L 4	Biochemistry Microbiology Microbiology	PBL 1 VL 2 PBL 1	Analysis III Analysis III Differential Equations 1	UE 1 HÜ 1 VL 2	Management Management Tutorial	HÜ 2	Introduction to Control Systems Introduction to Control Systems	VL 2 UE 2	Bachelor Thesis	
19 20 21	Fundamentals in Inorganic PR Chemistry	3	Mathematics II Linear Algebra II	VL 2	Differential Equations 1 Differential Equations 1	UE 1 HÜ 1	Informatics for Process Engineers Numeric and Matlab	PR 2	Chemical Reaction Engineering (part 1) Chemical Reaction	VL 2		
22	Engineering/Bioprocess	L 2	Linear Algebra II Linear Algebra II Analysis II Analysis II	UE 1 HÜ 1 VL 2 HÜ 1	Fundamentals in Molecu Biology Genetics and Molecular Biology	VL 2	Informatics for Process Engineers Informatics for Process	VL 2	Engineering Chemical Reaction Engineering	HÜ 2		
23	Engineering Fundamentals of material VL engineering	L 2	Analysis II	UE 1	Genetics and Molecular Biology Lab Course in Microbiology and Biochemistry	PBL 1	Engineers		Bioprocess Engineering Advanced Bioprocess Engineering -			
25 26 27	<b>7</b>	L 2 E 1					Bioprocess Engineering Fundamentals		Advanced Bioprocess Engineering - Advanced	UE 2		
28 29	Physics-Lab for VT/ BVT/ PR EUT	R 2	Organic Chemistry Organic Chemistry Organic Chemistry	VL 4 PR 3	Physical Chemistry Physical Chemistry Physical Chemistry	VL 2 PR 2	Bioprocess Engineering - Fundamentals Bioprocess Engineering- Fundamentals	VL 2 HÜ 2				
30							Bioprocess Engineering - Fundamental Practical	PR 2				

Course

31 32

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.