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

Sample course plan A Bachelor Bioprocess Engineering (BVTBS)

Fundamentals of Technical VL 1

Compulsory

Core qualification Elective
Compulsory

Specialisation Elective
Compulsory

Focus Elective Compulsory

Interdisciplinary
complement

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LP	Semester 1 Form	rHrs/wBemester 2	Formers	/w9emester 3 F	Forn <b>H</b> rs/	v8emester 4	Formirs	/v8emester 5	Fornirs	v <b>8</b> emester 6	Formirs
1 2 3 4 5	Engineering Mechanics I VL Engineering Mechanics I UE	3	VL 3	Engineering	VL 3 UE 2	Fundamentals of Fluid Mechanics Fundamentals of Fluid Mechanics Fluid Mechanics for Process Engineering	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 Process and Plant Engil	
6										Process and Plant Engineering I	VL 2
9 10 11 12	Mathematics I Linear Algebra I Linear Algebra I Linear Algebra I Linear Algebra I HÜ Analysis I Analysis I HÜ HÜ	1 Thermodynamics I 1 Technical Thermodynamics I 2 Technical 1 Thermodynamics I	MMICS I VL 2 HÜ 1 UE 1	Thermodynamics II  Technical Thermodynamics II	cs II VL 2 HÜ 1 UE 1	Phase Equilibria Thermodynamics Phase Equilibria Thermodynamics Phase Equilibria Thermodynamics Phase Equilibria Thermodynamics	VL 2 UE 1 HÜ 1	Thermal Separation Pro Thermal Separation Processes Thermal Separation Processes Thermal Separation Processes Separation Processes	VL 2 UE 2 HÜ 1 PR 1	Process and Plant Engineering I Process and Plant Engineering I  Particle Technology an Solids Process Engineer Particle Technology I Particle Technology I	
13 14		Biochemistry and Micr	obiology VL 2		VL 2	Foundations of Manage Introduction to	ment VL 3	Introduction to Control Systems		Particle Technology I	PR 2
15 16 17 18	General and Inorganic Chemistry Fundamentals in Inorganic VL Chemistry	Biochemistry Microbiology Microbiology	PBL 1 VL 2 PBL 1	Analysis III F 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	Fundamentals in Inorganic PR Chemistry	Mathematics II	\/I 2		UE 1 HÜ 1	Informatics for Process Engineers		Chemical Reaction Engineering (part 1)			
21 22	Fundamentals of Process Engineering Introduction into Process VL Engineering/Bioprocess Engineering	Linear Algebra II Linear Algebra II Linear Algebra II Analysis II Analysis II	VL 2 UE 1 HÜ 1 VL 2 HÜ 1	Biology	VL 2	Numeric and Matlab Informatics for Process Engineers Informatics for Process	PR 2 VL 2 UE 2	Chemical Reaction Engineering Chemical Reaction Engineering	VL 2 HÜ 2		
23	Fundamentals of material VL engineering		UE 1	Genetics and Molecular Biology Lab Course in Microbiology F and Biochemistry	PBL 1 PR 3	Engineers		Bioprocess Engineering Advanced Bioprocess Engineering -			
25 26	Physics VL Physics UE					Bioprocess Engineering Fundamentals	ı <b>-</b>	Advanced Bioprocess Engineering - Advanced	UE 2		
27 28 29 30	Physics-Lab for VT/ BVT/ PR EUT  Fundamentals of technical		VL 4 PR 3			Bioprocess Engineering - Fundamentals Bioprocess Engineering- Fundamentals	HÜ 2				
	drawing					Bioprocess Engineering - Fundamental Practical	PR 2				

Course

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.