Course of Study Bioprocess Engineering (Study Cohort w14) Compulsory

Sample course plan D Bachelor Bioprocess Engineering (BVTBS)

Sample	e course plan D Bachelor Blopi						Core qualification E Compulsory	ective Specialisation Elective Compulsory	Focus Elec	tive Compulsory Interdisciplinar	y complement
LP	Semester 1	Forn h irs/	w& we mester 2	FormHrs	w& semester 3	Forn h irs/	w&neemester4 FormH	rs/w&emester 5	FormHrs	/w& we mester 6	Forn h irs/w
1 2 3 4 5 6	Engineering Mechanics I Engineering Mechanics I Engineering Mechanics I	VL 3 UE 2	Engineering Mechanics II Engineering Mechanics II Engineering Mechanics II	VL 3 UE 2	Engineering	vring VL 3 UE 2	Fundamentals of Fluid Mechanic Fundamentals of Fluid VL 2 Mechanics Exercises in Fluid Mechanics HÜ 1 for Process Engineering		VL 2 UE 1	Thermal Separation Pro (part 2) Separation Processes Chemical Reaction Engli (part 2) Experimental Course Chemical Engineering Process and Plant Engline Process and Plant Engineering I	PR 1 ineering PR 2
7 8 9 10 11	Mathematics I Linear Algebra I Linear Algebra I Linear Algebra I Analysis I Analysis I Analysis I	VL 2 UE 1 HÜ 1 VL 2 UE 1 HÜ 1	Technical Thermodynamic Technical Thermodynamics I Technical Thermodynamics I Technical Thermodynamics I	I VL 2 I HÜ 1	Technical Thermodynamics II Phase Equilibria Thermodynamics Thermal Separation Processes Process and Engineering Technical Thermodynamics VL 2 Thermodynamics III VL 2 Thermodynamics III VL 2 Technical Thermodynamics HÜ 1 Thermodynamics III UE 1 Thermodynamics III Process and Engineering Technical Thermodynamics UE 1 Thermodynamics III UE 1 Thermodynamics III UE 1 Technical Thermodynamics UE 1 Thermodynamics III HÜ 1 Thermal Separation UE 2 Technical Thermodynamics UE 1 Thermodynamics III HÜ 1 Thermal Separation UE 2 Processes Thermal Separation UE 2 Process Engineering Thermal Separation UE 2 Process Engineering Thermal Separation HÜ 1 P	Process and Plant Engineering I Process and Plant Engineering I Particle Technology and Process Engineering Particle Technology I Particle Technology I	HÜ 1 UE 1 d Solids VL 2 UE 1				
13 14 15 16 17	Fundamentals in Inorganic Chemistry Fundamentals in Inorganic	; VL 4	Biochemistry and Microbio Biochemistry Biochemistry Microbiology	VL 2 PBL 1 VL 2	Analysis III Analysis III	VL 2 UE 1 HÜ 1	Foundations of Management Introduction to Management VL 4 Project Entrepreneurship PBL 2		VL 2 UE 2	Particle Technology I Bachelor Thesis	PR 2
18 19 20 21	Chemistry Fundamentals in Inorganic Chemistry Fundamentals of Process	PR 3	MicrobiologyPBL 1Differential Equations 1VL 2Chemical Reaction EngineeringMathematics IIVL 2Differential Equations 1UE 1Informatics for Process EngineersChemical Reaction VL 2Linear Algebra IIVL 2Fundamentals in MolecularInformatics for ProcessVL 2Chemical Reaction MultiplicationLinear Algebra IIVL 2Fundamentals in MolecularVL 2Informatics for ProcessVL 2Chemical ReactionVL 2Analysis IIVL 2Genetics and MolecularVL 2Informatics for ProcessVL 2BiologyBiologyInformatics for ProcessVL 2Analysis IIHÜ 1Genetics and MolecularPBL 1PBL 1Informatics for ProcessVL 2Bioprocess Engineering - AdvancedMathematics IIVL 2Genetics and MolecularPBL 1PBL 1Informatics for ProcessVL 2Bioprocess Engineering - VL 2								
22 23 24	Engineering Environmental Technologie Introduction into Process Engineering/Bioprocess Engineering	VL 2 VL 2		VL 2 HÜ 1	Genetics and Molecular VL 2 Biology Genetics and Molecular PBL 1	Informatics for Process UE 2	Bioprocess Engineering - Advanced				
25 26	Fundamentals of Technical Drawing and Materials Fundamentals of Technical Drawing and Materials	VL 1 HÜ 1			Lab Course in Microbiology and Biochemistry	PR 3	Bioprocess Engineering - Fundamentals Bioprocess Engineering - VL 2 Fundamentals	Advanced Bioprocess Engineering - Advanced	UE 2		
27 28	Physics for VT/BVT/EUT- Engineers		Organic Chemistry				Bioprocess Engineering- HÜ 2 Fundamentals				

Specialisation Compulsory

Focus Compulsory

Thesis Compulsory

30	Engineers Physics for VT/BVT/EUT- UE	1	Fundamental Practical Course
31	Engineers		
32	Physics-Lab forPRVT/BVT/EUT-Engineers	2	
	Nontechnical Complementary Cou	rses 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.