Course of Study Bioprocess Engineering (Study Cohort w15) Compulsory

Sample course plan D Bachelor Bioprocess Engineering (BVTBS)

Jampie	e course plan D Bachelor Blop						Core qualificat Compulsory	ion Elect	tive Specialisation Elective Compulsory	Focus Elec	tive Compulsory Interdisciplinar	y complement
LP	Semester 1	FornHrs	wBremester 2	FornHirs	w&kemester 3 F	Forn h irs/	w&neemester 4 F	orn h irs/	w& semester 5	FormHrs	w&vermester 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	ring VL 3 UE 2	Fundamentals of Fluid Mecha Fundamentals of Fluid V Mechanics Fluid Mechanics for Process H Engineering	′L 2	Heat and Mass Transfer Heat and Mass Transfer Heat and Mass Transfer Heat and Mass Transfer	VL 2 UE 1 HÜ 1	Thermal Separation Pro (part 2) Separation Processes Chemical Reaction Engli (part 2) Experimental Course Chemical Engineering Process and Plant Engineering 1	PR 1 ineering PR 2
7 8 9 10 11 12	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 Thermodynamics Technical Thermodynamics Technical Thermodynamics Technical Thermodynamics	IVL2 IHÜ1	Technical Thermodynamics Technical Thermodynamics II Technical Thermodynamics II Technical Thermodynamics II	VL 2 HÜ 1	Thermodynamics III U	amics ′L 2 ′E 1 Ü 1	Thermal Separation Proceed (part 1) Thermal Separation Processes Thermal Separation Processes Thermal Separation Processes	VL 2 UE 2 HÜ 1	Process and Plant Engineering I Process and Plant Engineering I Particle Technology and Process Engineering Particle Technology I Particle Technology I	VL 2 UE 1
13 14 15 16 17 18	General and Inorganic Che Fundamentals in Inorganic Chemistry	VL 4	Biochemistry and Microbi Biochemistry Biochemistry Microbiology Microbiology	ology VL 2 PBL 1 VL 2 PBL 1	Analysis III I Analysis III H	VL 2 UE 1 HÜ 1 VL 2	Foundations of ManagementIntroduction to ManagementVProject EntrepreneurshipP	'L 3 BL 2	Introduction to Control S Introduction to Control Systems Introduction to Control Systems	VL 2 UE 2	Particle Technology I Bachelor Thesis	PR 2
19 20 21 22 22 23	Chemistry Fundamentals of Process Engineering Environmental Technologie Introduction into Process Engineering/Bioprocess Engineering Fundamentals of Technical Drawing and Materials	PR 3 VL 2 VL 2	Linear Algebra II Linear Algebra II Analysis II Analysis II	VL 2 UE 1 HÜ 1 VL 2 HÜ 1	Differential Equations 1	UE 1 HÜ 1 VL 2 PBL 1	Informatics for Process VL 2	VL 2 HÜ 2				
24 25 26		VL 1 HÜ 1		UE 1	Biology Lab Course in Microbiology and Biochemistry		Bioprocess Engineering - Fundamentals Bioprocess Engineering - V Fundamentals	′L 2	Advanced	VL 2 UE 2		
27 28 29	Physics Physics Physics	VL 2 UE 1	Organic Chemistry Organic Chemistry Organic Chemistry	VL 4 PR 3			Bioprocess Engineering- H Fundamentals	Ü 2 R 2				

Specialisation Compulsory

Focus Compulsory

Thesis Compulsory

30	Physics-Lab for VT/ BVT/ EUT	PR 2	
31			
32			

Fundamental Practical Course

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.