Course of Study Bioprocess Engineering (Study Cohort w15) Compulsory

Sample course plan C Bachelor Bioprocess Engineering (BVTBS)

Sampio	Course plan C bachelor blop						Core qualificat Compulsory	tion Electiv	e Specialisation Elective Compulsory	Focus Elect	tive Compulsory Interdisciplina	ry complement
LP	Semester 1	Forn h irs/	w& we mester 2	FormHrs	w&veemester 3	Forn h irs	w&neester 4 F	orn h irs/w	Bremester 5	Forn h lrs/	w&semester 6	Forn h irs/wi
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	Basics of Electrical Enginee Basics of Electrical Engineering Basics of Electrical Engineering	ering 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 Proc (part 2) Separation Processes Chemical Reaction Eng (part 2) Experimental Course Chemical Engineering Process and Plant Engineering I	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 Thermodynamic Technical Thermodynamics Technical Thermodynamics Technical Thermodynamics	I VL 2 I HÜ 1	Technical Thermodynamics Technical Thermodynamics II Technical Thermodynamics II Technical Thermodynamics II	VL 2 HÜ 1	Thermodynamics III U	/L 2 JE 1 IÜ 1	Thermal Separation Proce (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 an Particle Technology I Particle Technology I	VL 2 UE 1
13 14 15 16 17 18	Chemistry Fundamentals of Process Engineering Environmental Technologie VL Introduction into Process Engineering/Bioprocess Engineering Fundamentals of Technical Drawing and Materials	VL 4	Biochemistry and Microbio Biochemistry Biochemistry Microbiology Microbiology	VL 2 VL 2 PBL 1 VL 2 PBL 1	Analysis III Analysis III	VL 2 UE 1 HÜ 1 VL 2	Foundations of Management Introduction to Management V Project Entrepreneurship P	/L 3 9BL 2	ntroduction to Control Systems ntroduction to Control Systems	VL 2 UE 2	Particle Technology I Bachelor Thesis	PR 2
19 20 21 22 23 24		PR 3 VL 2 VL 2	Mathematics II Linear Algebra II Linear Algebra II Linear Algebra II Analysis II	VL 2 UE 1 HÜ 1 VL 2 HÜ 1 UE 1	Differential Equations 1 UE 1 Differential Equations 1 HÜ 1 Fundamentals in Molecular Biology Genetics and Molecular VL 2 Biology Genetics and Molecular Genetics and Molecular PBL 1 Biology PBL 1	Informatics for Process V Engineers	Process Engineers (part 1) Matlab PR 2 Process VL 2 Process VL 2 Process UE 2 Bioprocess Advanced		n HÜ 2 ineering -			
25 26 27					Lab Course in Microbiology and Biochemistry	PR 3	Fundamentals		Bioprocess Engineering - Advanced Bioprocess Engineering - Advanced	UE 2		
28 29	Physics Physics	VL 2 UE 1	Organic Chemistry Organic Chemistry	VL 4 PR 3			Fundamentals	PR 2				

Specialisation Compulsory

Specialisation Elective

Core qualification Elective

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.