Course of Study Bioprocess Engineering (Study Cohort w16)

Sample course plan D Bachelor Bioprocess Engineering (BVTBS)

Legend:

Core qualification Compulsory	Specialisation Compulsory	Focus Compulsory	Thesis Compulsory
Core qualification Elective Compulsory	Specialisation Elective Compulsory	Focus Elective Compulsory	Interdisciplinary complement

LP	Semester 1	FormHrs	w& we mester 2	Forn h irs	w&neemester3 Form	nHrs/w&so	æmester 4	Forn h irs/	w&neemester 5	Forn h irs/	w& semester 6	Forn h irs/w
1	Engineering Mechanics I Engineering Mechanics I	VL 3	Engineering Mechanics II Engineering Mechanics II	VL 3	Basics of Electrical Engineering Basics of Electrical VL		undamentals of Fluid Mech undamentals of Fluid	n <mark>anics</mark> VL 2	Heat and Mass Transfer Heat and Mass Transfer	VL 2	Thermal Separation Proce (part 2)	esses
	Engineering Mechanics I	UE 2	Engineering Mechanics II	UE 2	Engineering		lechanics		Heat and Mass Transfer	UE 1	Separation Processes	PR 1
2 3					Basics of Electrical UE Engineering		luid Mechanics for Process	HÜ 2	Heat and Mass Transfer	HÜ 1	Chemical Reaction Engine (part 2)	eering
											Experimental Course Chemical Engineering	PR 2
4											Process and Plant Engineering I	
5 6											Process and Plant Engineering I	VL 2
7 8	Mathematics I	VL 2	Technical Thermodynamics		Technical Thermodynamics II Technical Thermodynamics VL			namics VL 2	Thermal Separation Proce (part 1)	sses	Process and Plant Engineering I	HÜ 1
9	Linear Algebra I Linear Algebra I	UE 1 HÜ 1	Technical Thermodynamics I Technical Thermodynamics I	HÜ 1	II Technical Thermodynamics HÜ	Т	hermodynamics	UE 1	Thermal Separation Processes	VL 2	Process and Plant Engineering I	UE 1
10 11	Analysis I Analysis I	VL 2 UE 1			II Technical Thermodynamics UE	1 P		HÜ 1	Thermal Separation Processes	UE 2	Particle Technology and S Process Engineering	Solids
	Analysis I	UE I HÜ 1			Ш	T	hermodynamics		Thermal Separation Processes	HÜ 1	Particle Technology I	VL 2
12	, indigene i										Particle Technology I	UE 1
13			Biochemistry and Microbio	logy	Mathematics III	E	oundations of Managemen	•	Introduction to Control Sy		Particle Technology I	PR 2
14			Biochemistry	VL 2	Analysis III VL		ntroduction to Management		Introduction to Control Systems	VL 2		
15 16	General and Inorganic Ch	emistry	Biochemistry	PBL 1	Analysis III UE		-	PBL 2	Introduction to Control	UE 2		
10	Fundamentals in Inorganic	VL 4	Microbiology	VL 2	Analysis III HÜ	1			Systems		Environmental Technolog 2)	y (part
	Chemistry Fundamentals in Inorganic Chemistry	PR 3	Microbiology	PBL 1	Differential Equations 1 VL Differential Equations 1 UE	1					Practical Exercise Environmental Technology	PR 1
17					Differential Equations 1 HÜ	1					Bachelor Thesis	
18 19 20			Mathematics II			In	nformatics for Process Eng	ineers	Chemical Reaction Engine (part 1)	ering	Dachelor mesis	
20 21			Linear Algebra II	VL 2				PR 2	Chemical Reaction Engineering	VL 2		
	Fundamentals of Process Engineering Introduction into Process	VL 2	Linear Algebra II Linear Algebra II	UE 1 HÜ 1	Fundamentals in Molecular Biology Genetics and Molecular VL	E	ngineers	VL 2	Chemical Reaction Engineering	HÜ 2		
22 23	Engineering/Bioprocess Engineering		Analysis II Analysis II	VL 2 HÜ 1	Biology Genetics and Molecular PBL	E	nformatics for Process ingineers	UE 2	Bioprocess Engineering - Advanced			
	Fundamentals of material engineering	VL 2	Analysis II	UE 1	Biology Lab Course in Microbiology PR	3			Bioprocess Engineering - Advanced	VL 2		
24	Physics				and Biochemistry				Bioprocess Engineering -	UE 2		
25	Physics	VL 2				В	ioprocess Engineering -		Advanced			
26	Physics	UE 1				F	undamentals					

VT/ PR 2 Organic Chemistry VL 4 Organic Chemistry VL 4 Organic Chemistry PR 3 Bioprocess Engineering- HÜ 2 Fundamentals Bioprocess Engineering- PR 2 Bioprocess Engineering- VL 2 2 Fundamentals PR 2 2 2 Fundamental Practical Course PR 2 2

The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.