## Course of Study Bioprocess Engineering (Study Cohort w15)

P	Semester 1	FormHrs/wk	Semester 2	FormHrs/wk	Semester 3	FormHrs/wk	Compulsory Semester 4		pulsory Semester 5	FormHrs/wk	Semester 6	FormHrs/
	Engineering Mechanics I		Engineering Mechanics II		Basics of Electrical Engineering		Fundamentals of Fluid Mechanics		Heat and Mass Transfer		Thermal Separation Processes	(part 2)
		VL 3 UE 2	Engineering Mechanics II Engineering Mechanics II	VL 3 UE 2	Basics of Electrical Engineering Basics of Electrical Engineering	VL 3 UE 2	Fundamentals of Fluid Mechanics Exercises in Fluid Mechanics for Process Engineering	VL 2 HÜ 1	Heat and Mass Transfer Heat and Mass Transfer	VL 2 UE 1	Separation Processes Chemical Reaction Engineering Experimental Course Chemical Engineering	PR 1 (part 2) PR 2
											Process and Plant Engineering I Process and Plant Engineering I Process and Plant Engineering I Process and Plant Engineering I	VL 2 HÜ 1
	Mathematics I		Technical Thermodynamics I		Technical Thermodynamics II		Phase Equilibria Thermodynamics		Thermal Separation Process	es (part 1)		
	Linear Algebra I	VL 2 UE 1 HÜ 1	Technical Thermodynamics I Technical Thermodynamics I Technical Thermodynamics I	VL 2 HÜ 1 UE 1	Technical Thermodynamics II Technical Thermodynamics II Technical Thermodynamics II	VL 2 HÜ 1 UE 1	Thermodynamics III Thermodynamics III Thermodynamics III	VL 2 UE 1 HÜ 1	Thermal Separation Processe Thermal Separation Processe Thermal Separation Processe	es UE 2		
D 1	Analysis I	VL 2 UE 1 HÜ 1									Particle Technology and Solids I Engineering Particle Technology I	VL 2
2									Introduction to Control System		Particle Technology I	UE 1
3			Biochemistry and Microbiology		Mathematics III		Foundations of Management		Introduction to Control System Introduction to Control System		Particle Technology I	PR 2
4			Biochemistry	VL 2	Analysis III	VL 2	Introduction to Management	VL 4	Introduction to Control System	115 UE 2		
5	General and Inorganic Chemistry		Biochemistry Microbiology	POL 1 VL 2	Analysis III Analysis III	UE 1 HÜ 1	Project Entrepreneurship	POL 2				
6 7	Fundamentals in Inorganic Chemistry Fundamentals in Inorganic Chemistry	VL 4	Microbiology	POL 1	Differential Equations 1 Differential Equations 1	VL 2 UE 1					Bachelor Thesis	
8					Differential Equations 1	HÜ 1			Chemical Reaction Engineeri	ing (part 1)		
9 0			Mathematics II Linear Algebra II	VL 2			Informatics for Process Engineers Numeric and Matlab	PR 2	Chemical Reaction Engineerin Chemical Reaction Engineerin	ng VL 2		
1	Fundamentals of Process Engineering		Linear Algebra II	UE 1	Fundamentals in Molecular Biology		Informatics for Process Engineers	VL 2				
2	Environmental Technologie VL 2 Introduction into Process VL 2		Linear Algebra II Analysis II	HÜ 1 VL 2	Genetics and Molecular Biology Genetics and Molecular Biology	VL 2 POL 1	Informatics for Process Engineers	UE 2	Bioprocess Engineering - Adv			
3 4	Engineering/Bioprocess Engineering	VL 1	Analysis II Analysis II	HÜ 1 UE 1	Lab Course in Microbiology and Biochemistry	PR 3			Bioprocess Engineering - Adv Bioprocess Engineering - Adv			
5	and Materials						Bioprocess Engineering - Fundament	als				
26	Fundamentals of Technical Drawing and Materials	HÜ 1					Bioprocess Engineering -	VL 2				
7	Physics		Organic Chemistry				Fundamentals Bioprocess Engineering-	HÜ 2				
8 9	Physics	VL 2 UE 1 PR 2	Organic Chemistry Organic Chemistry	VL 4 PR 3			Fundamentals Bioprocess Engineering - Fundamental Practical Course	PR 2				
0 1 2												

Legend:

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