## Course of Study Bioprocess Engineering (Study Confusion Study Specialisation Elective Compulsory Specialisation Elective

	course plan C Bachelor Bioprocess	3 3 1								
1 2 3 4 5	Mathematics	Technical Thermodynamics I Technical Thermodynamics I Technical Thermodynamics I Technical Thermodynamics I G0	Basics of Electrical Engineering	VL 3 GÛ 2	Fundamentals of Fluid Mechanics Fundamentals of Fluid Mechanics VL Fluid Mechanics for Process Engineering HÜ Fundamentals on Fluid Mechanics GÜ	2	Heat and Mass Transfer Heat and Mass Transfer Heat and Mass Transfer Heat and Mass Transfer	VL 2 GÜ 1 HÜ 1	Process and Plant Engineering I	VL 2 HÜ 1 GÜ 1
6 7 8		Mechanics II: Mechanics of Materials  Mechanics II VL	Technical Thermodynamics II 2 Technical Thermodynamics II	VL 2	Phase Equilibria Thermodynamics Phase Equilibria Thermodynamics VL	2	Thermal Separation Processes Thermal Separation Processes	VL 2	Particle Technology and Solids Proces Particle Technology I	ss Engineering VL 2
9 10 11 12	General and Inorganic Chemistry General and Inorganic Chemistry VL 3 Fundamentals in Inorganic Chemistry PR 3 Fundamentals in Inorganic Chemistry GÜ 1	Mechanics II GÜ Mechanics II HÜ	Technical Thermodynamics II     Technical Thermodynamics II	HÜ 1 GÜ 1	Phase Equilibria Thermodynamics GÜ Phase Equilibria Thermodynamics HÜ		Thermal Separation Processes Thermal Separation Processes Separation Processes	GÜ 2 HÜ 1 PR 1	Particle Technology I Particle Technology I	GŪ 1 PR 2
13 14		Biochemistry and Microbiology Biochemistry VL Biochemistry PBL		VL 2 GÜ 1	Foundations of Management Introduction to Management VL Management Tutorial GÜ		Introduction to Control Systems Introduction to Control Systems Introduction to Control Systems	VL 2 GÜ 2	Bachelor Thesis	
15 16 17	Fundamentals of Process Engineering and Material Engineering Introduction into Process Engineering/Bioprocess VL 2 Engineering Fundamentals of material engineering VL 2	Microbiology VL Microbiology PBL	· ·	HÜ 1 VL 2 GÜ 1 HÜ 1						
18 19 20 21 22 23	Mechanics I (Statics)           Mechanics I         VL         2           Mechanics I         GÜ         2           Mechanics I         HÜ         1	Mathematics II Linear Algebra II VL Linear Algebra II GÜ Linear Algebra II HÜ Analysis II VL Analysis II HÖ	1 1 Fundamentals in Molecular Biology 2 Genetics and Molecular Biology 1 Genetics and Molecular Biology	VL 2 PBL 1	Bioprocess Engineering - Fundamentals Bioprocess Engineering - Fundamentals VL Bioprocess Engineering - Fundamentals HÜ Bioprocess Engineering - Fundamental Practical PR Course	2	Bioprocess Engineering - Advanced Bioprocess Engineering - Advanced Bioprocess Engineering - Advanced	VL 2 GÜ 2		
24 25 26	Measurement Technology for VT/ BVT  Measurement Technology VL 2  Physical Fundamentals of Measurement VL 2  Technology	. Analysis II GÜ	1 Lab Course in Microbiology and Biochemistry	PR 3	Computer Science for Engineers - Programming Concepts, Data Handling & Communication Computer Science for Engineers - Programming VL	3				
27 28 29	Practical Course Measurement Technology PR 2	Organic Chemistry Organic Chemistry VL Organic Chemistry PR		VL 2 HÜ 2	Concepts, Data Handling & Communication Computer Science for Engineers - Programming GÜ Concepts, Data Handling & Communication					
30 31 32					Chemical Reaction Engineering (part 2) Experimental Course Chemical Engineering PR	2				

Non-technical 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.