Course of Study Bioprocess Engineering (Study Cohort w14)

Engineering Mechanics II

Engineering Mechanics II

Engineering Mechanics II

Technical Thermodynamics I Technical Thermodynamics I

Technical Thermodynamics I

Technical Thermodynamics I

Biochemistry and Microbiology

Biochemistry

Biochemistry

Microbiology

Microbiology

Mathematics II Linear Algebra II

Linear Algebra II

Linear Algebra II

Organic Chemistry

Organic Chemistry

Organic Chemistry

Analysis II

Analysis II

Analysis II

VL 4

PR 3

Sample course plan - Bachelor Bioprocess Engineering (BVTBS)

VL 3

VL 2

UE 1

HÜ 1

VL 2

UE 1

HÜ 1

FormHrs/wk Semester 2

ΙP

8

9

11

12 13

14

15

16

17 18 19

20

21

22

23

24 25

26

27

28

29

30 31 32 Semester 1

Mathematics I

Linear Algebra I

Linear Algebra I

Linear Algebra I

Analysis I

Analysis I

Analysis I

Fundamentals in Inorganic Chemistry

Fundamentals of Process Engineering

Engineering/Bioprocess Engineering

Physics for VT/BVT/EUT-Engineers

Physics for VT/BVT/EUT-Engineers

Physics-Lab for VT/BVT/EUT-

Fundamentals of Technical Drawing VL 1

Fundamentals of Technical Drawing HÜ 1

Physics for VT/BVT/EUT-Engineers VL 2

Environmental Technologie

Introduction into Process

and Materials

Engineers

Fundamentals in Inorganic Chemistry VL 4

Fundamentals in Inorganic Chemistry PR 3

Engineering Mechanics I

Engineering Mechanics I

Engineering Mechanics I

Bioprocess Engineering

Bioprocess Engineering-

Bioprocess Engineering

Fundamental Practical Course

Fundamentals

Fundamentals

			Core qualit	ication Compulso	ry Spe	cialisation Compulsory	Focus Compulsory		Thesis Compulsory		
VTBS)				Core qualification Elective Spec		cialisation Elective Focus Elective Computation					
FormHrs/wk	Semester 3	FormHrs/wk	Semester 4		FormHrs/wl	k Semester 5	FormHrs/wk	Semester 6		Form	Hrs/\
	Basics of Electrical Engineering		Fundamentals of Fluid Mechanics			Heat and Mass Transfer		Thermal Separation Processes (part 2)			
VL 3	Basics of Electrical Engineering	VL 3	Fundamentals of Flu	id Mechanics	VL 2	Heat and Mass Transfer	VL 2	Separation P	rocesses	PR	1
UE 2			Exercises in Fluid M	exercises in Fluid Mechanics for HÜ 1		Heat and Mass Transfer	UE 1	Chemical Reaction Engineering (part 2)			
			Process Engineering	9				Experimental Engineering	Course Chemical	PR	2
								Process and	Plant Engineering I		
								Process and	Plant Engineering I	VL	2
								Process and	Plant Engineering I	ΗÜ	1
								Process and	Plant Engineering I	UE	1
	echnical Thermodynamics II		Phase Equilibria Thermodynamics		Thermal Separation Processes (part 1)						
VL 2	Technical Thermodynamics II	VL 2	Thermodynamics III		VL 2	Thermal Separation Process					
HÜ 1 UE 1	Technical Thermodynamics II Technical Thermodynamics II	HÜ 1 UE 1	Thermodynamics III Thermodynamics III		UE 1 HÜ 1	Thermal Separation Processor Thermal Separation Processor					
32 .		52 ·				Thomas Coparation 1 100000		Particle Tech Engineering	nnology and Solids Pro	ocess	2
						Introduction to Control Syste	ems	Particle Tech		UE	
	Mathematics III		Foundations of Mana	agement		Introduction to Control System	ms VL 2	Particle Tech		PR	2
VL 2	Analysis III	VL 2	Introduction to Mana	gement	VL 4	Introduction to Control System	ms UE 2				
OL 1	Analysis III	UE 1	Project Entrepreneur	rship	POL 2						
/L 2	Analysis III	HÜ 1									
POL 1	Differential Equations 1	VL 2						Bachelor The	esis		
	Differential Equations 1	UE 1									
	Differential Equations 1	HÜ 1				Chemical Reaction Engineering (part 1)					
			Informatics for Proc	ess Engineers		Chemical Reaction Engineer					
VL 2			Numeric and Matlab		PR 2	Chemical Reaction Engineer	ring HÜ 2				
UE 1			Informatics for Proce		VL 2						
JÜ 1	Fundamentale in Malecular Pielegy			natics for Process Engineers UE 2							
VL 2	Genetics and Molecular Biology	VL 2		, , ,		Bioprocess Engineering - Ad	dvanced				
⊣Ü 1	Genetics and Molecular Biology	POL 1				Bioprocess Engineering - Ad					
UE 1	Lab Course in Microbiology and Biochemistry	PR 3				Bioprocess Engineering - Ad					
			Bioprocess Engine	ering - Fundament	als						

HÜ 2

PR 2

Nontechnical Complementary Courses for Bachelors (from catalogue) - 6LP

