## Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w16)

Sample course plan B Bachelor General Engineering Science (German program, 7 semester) (AIWBS(7)) Specialisation Bioprocess Engineering

Core qualification Compulsory Specialisation Compulsory Focus Compulsory Thesis Compulsory

Core qualification Elective

Core qualification Elective

Specialisation Elective

Compulsory Focus Elective Compulsory

Interdisciplinary complement

LP	Semester 1 For	ormHrs/	w‰emester 2 Formidirs	Welemester 3 Formers	/wSemester 4	Formers	/wSkemester 5 Formilis	/w&mester6 Forming	s/wSwemester7 Formirs/wi
1 2 3 4 5 6	Chemistry II VL Chemistry I HÜ		Electrical Engineering II: Alternating Current Networks and Basic Devices Electrical Engineering II: VL 3 Alternating Current Networks and Basic Devices Electrical Engineering II: UE 2 Alternating Current Networks and Basic Devices	Technical Thermodynamics II  Technical VL 2 Thermodynamics II  Technical HÜ 1 Thermodynamics II  Technical UE 1 Thermodynamics II	Fundamentals of Fluid Mechanics Fundamentals of Fluid Mechanics Fluid Mechanics for Process Engineering	VL 2	Introduction to Control Systems Introduction to Control VL 2 Systems Introduction to Control UE 2 Systems	Foundations of Management Introduction to VL 3 Management Management Tutorial HÜ 2	Advanced Internship GES
7 8 9 10 11 12 13	Electrical Engineering I: Direct Current Networks at Electromagnetic Fields  Electrical Engineering I: VL Direct Current Networks and Electromagnetic Fields  Electrical Engineering I: UE Direct Current Networks and Electromagnetic Fields  Mathematics I	L 3	Fundamentals of Mechanical Engineering Design  Fundamentals of VL 2  Mechanical Engineering Design  Fundamentals of HÜ 2  Mechanical Engineering Design  Technical Thermodynamics I	Mathematics III  Analysis III VL 2  Analysis III UE 1  Analysis III HÜ 1  Differential Equations 1 VL 2  Differential Equations 1 UE 1  Differential Equations 1 HÜ 1	Phase Equilibria Thermodynamics	VL 2 UE 1 HÜ 1	Heat and Mass Transfer Heat and Mass Transfer VL 2 Heat and Mass Transfer UE 1 Heat and Mass Transfer HÜ 1  Thermal Separation	Thermal Separation Processes (part 2) Separation Processes PR 1  Chemical Reaction Engineering (part 2) Experimental Course Chemical Engineering  Process and Plant Engineering I  Process and Plant Engineering I	
14 15 16 17	Linear Algebra I VL Linear Algebra I UE Linear Algebra I HÜ Analysis I VL Analysis I UE		Technical Thermodynamics I Technical VL 2 Thermodynamics I Technical HÜ 1 Thermodynamics I Technical UE 1 Thermodynamics I	Mechanics III (Hydrostatics, Kinematics, Kinetics I)  Mechanics III VL 3  Mechanics III UE 2  Mechanics III HÜ 1	Signals and Systems Signals and Systems Signals and Systems	VL 3 HÜ 1	Thermal Separation Processes (part 1) Thermal Separation Processes Thermal Separation Processes Thermal Separation Processes Thermal Reparation Processes Chemical Reaction	Process and Plant HÜ 1 Engineering I  Process and Plant UE 1 Engineering I  Particle Technology and Solids Process Engineering Particle Technology I VL 2 Particle Technology I UE 1	
19 20 21	Mechanics I UE	E 2	Mechanics II: Mechanics of Materials  Mechanics II VL 2  Mechanics II UE 2  Mechanics II HÜ 2	Computer Engineering Computer Engineering VL 3 Computer Engineering UE 1	Biochemistry and Microbiology Biochemistry Biochemistry Microbiology	VL 2 PBL1 VL 2	Engineering (part 1)  Chemical Reaction VL 2  Engineering  Chemical Reaction HÜ 2  Engineering	Particle Technology I PR 2	Bachelor Thesis
	Mechanics I HÜ	Ü 1			Microbiology	PBL1	Bioprocess Engineering - Advanced Bioprocess Engineering VL 2 - Advanced Bioprocess Engineering UE 2	Environmental	

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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.