Course of Study General Engineering Science (English program, 7 semester) (Study Cohort w18)

Sample course plan A Bachelor General Engineering Science (English program, 7 semester) (GESBS(7)) Specialisation Bioprocess Engineering

Core qualification Compulsory Specialisation Compulsory Focus Compulsory Thesis Compulsory

Core qualification Elective
Core qualification Elective
Compulsory Specialisation Elective
Compulsory Focus Elective Compulsory

Interdisciplinary complement

LP	Semester 1	Formers	/wSwemester 2 Fo	ormHrs/	Ølemester 3	Formers	Welemester 4	Formers	/wSkemester 5 Formilis	/w&kemester6 F	ormHrs/	wSwemester7 FormHrs/w
1 2 3 4 5 6	Chemistry (GES) Chemistry I Chemistry II Chemistry I Chemistry I	VL 2 VL 2 HÜ 1 HÜ 1	Technical Thermodynamic Technical VL Thermodynamics I Technical HÜ Thermodynamics I Technical UE Thermodynamics I	. 2 Ü 1 ≣ 1	Thermodynamics II Technical Thermodynamics II		Fundamentals of Fluid Mechanics Fundamentals of Fluid Mechanics Fluid Mechanics for Process Engineering	VL 2 HÜ 2	Introduction to Control Systems Introduction to Control Systems Introduction to Control UE 2 Systems	Introduction to V Management	nent L 3	Advanced Internship GES
8 9	Linear Algebra Linear Algebra Linear Algebra Linear Algebra	VL 4 HÜ 2 UE 2	Mathematical Analysis HÜ		Analysis III Analysis III Differential Equations 1	VL 2 UE 1 HÜ 1 VL 2 UE 1 HÜ 1	Phase Equilibria Thermodynamics Phase Equilibria Thermodynamics Phase Equilibria Thermodynamics 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	Chemical Reaction Engineering (part 2)	R 1	
10 11 12 13 14 15	Electrical Engineering Electrical Engineering I Electrical Engineering I	VL 3	Electrical Engineering II Electrical Engineering II VL Electrical Engineering II UE		Mechanics III	HÜ 1 UE 2 VL 3	Signals and Systems Signals and Systems Signals and Systems	VL 3 UE 2	Thermal Separation Processes (part 1) Thermal Separation Processes	Engineering I Process and Plant H Engineering I Process and Plant U Engineering I Particle Technology and Solids Process Engineer	ing	
18 19 20 21	Mechanics I (GES) Mechanics I Mechanics I	VL 2 HÜ 3				VL 3 UE 1	Biochemistry and Microbiology Biochemistry Biochemistry Microbiology Microbiology	VL 2 PBL1 VL 2 PBL1	Chemical Reaction Engineering (part 1) Chemical Reaction Engineering Chemical Reaction Chemical Reaction Chemical Reaction Engineering Bioprocess Engineering -	Particle Technology I U	L 2	Bachelor Thesis
23 24 25 26 27	Programming in C Programming in C	VL 1	Fundamentals of Mechanic	cal	Fundamentals of Proces		Bioprocess Engineering Fundamentals Bioprocess Engineering - Fundamentals		Advanced Bioprocess Engineering VL 2 - Advanced Bioprocess Engineering UE 2 - Advanced			

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