Course of Study General Engineering Science (English program) (Study Cohort w15)

Sample course plan - Bachelor General Engineering Science (English program) (GESBS) Specialisation Bioprocess Engineering

Legend:

Core qualification Compulsory

Core qualification Elective

Specialisation Elective

Compulsory

Compulsory

Compulsory

Compulsory

Compulsory

Compulsory

Compulsory

Focus Elective Compulsory

Interdisciplinary complement

							Compulsory	Con	ipulsory			
LP	Semester 1	FormHrs/wk	Semester 2	FormHrs/wl	Semester 3	FormHrs/w	k Semester 4	FormHrs/w	Semester 5	FormHrs/wk	Semester 6	FormHrs/wk
1	Chemistry (GES)		Physics for Engineers (GES) (part 2)	Technical Thermodynamics II		Foundations of Management		Introduction to Control Systems		Thermal Separation Processes (par	rt 2)
	Chemistry I	VL 2	Physics-Lab for ET/ AIW/ GES	PR 1	Technical Thermodynamics II	VL 2	Introduction to Management	VL 4	Introduction to Control Systems	VL 2	Separation Processes	PR 1
2	Chemistry II	VL 2			Technical Thermodynamics II	HÜ 1	Project Entrepreneurship	POL 2	Introduction to Control Systems	UE 2	Chemical Reaction Engineering (pa	rt 2)
3	Chemistry II	HÜ 1 HÜ 1	Fundamentals of Mechanical Engine Design	ering	Technical Thermodynamics II	UE 1					Experimental Course Chemical Engineering	PR 2
4			Fundamentals of Mechanical	VL 2							Process and Plant Engineering I	
5			Engineering Design								Process and Plant Engineering I	VL 2
6			Fundamentals of Mechanical Engineering Design	HÜ 2							Process and Plant Engineering I	HÜ 1
7	Linear Algebra		Engineering Design		Computer Engineering		Fundamentals of Fluid Mechanics		Heat and Mass Transfer		Process and Plant Engineering I	UE 1
-	Linear Algebra	VL 4			Computer Engineering	VL 3	Fundamentals of Fluid Mechanics	VL 2	Heat and Mass Transfer	VL 2		
8	Linear Algebra	HÜ 2			Computer Engineering	UE 1	Exercises in Fluid Mechanics for	HÜ 1	Heat and Mass Transfer	UE 1		
9	Linear Algebra	UE 2	Technical Thermodynamics I				Process Engineering					
10			Technical Thermodynamics I Technical Thermodynamics I	VL 2 HÜ 1							Particle Technology and Solids Pro	cess
11			Technical Thermodynamics I	UE 1							Engineering	\(\(\text{\tint{\text{\tin}\text{\ti}\\ \tint{\text{\text{\tin}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tex{\tex
12			,								Particle Technology I Particle Technology I	VL 2 UE 1
13					Mathematics III		Phase Equilibria Thermodynamics		Thermal Separation Processes (pa	rt 1)	Particle Technology I	PR 2
14					Analysis III	VL 2	Thermodynamics III	VL 2	Thermal Separation Processes	VL 3		
_					Analysis III	UE 1	Thermodynamics III	UE 1	Thermal Separation Processes	UE 2		
15	Electrical Engineering I	VL 3	Mathematical Analysis Mathematical Analysis	VL 4	Analysis III	HÜ 1	Thermodynamics III	HÜ 1	Thermal Separation Processes	HÜ 1		
16	Electrical Engineering I	UE 2	Mathematical Analysis	VL 4 HÜ 2	Differential Equations 1	VL 2 UE 1					Bachelor Thesis	
17	g .		Mathematical Analysis	UE 2	Differential Equations 1 Differential Equations 1	HÜ 1						
18									Chemical Reaction Engineering (pa	ırt 1)		
19							Signals and Systems		Chemical Reaction Engineering	VL 2		
20							Signals and Systems	VL 3	Chemical Reaction Engineering	HÜ 2		
21	Mechanics I (GES)				Mechanics III (GES)		Signals and Systems	HÜ 1				
	Mechanics I	VL 2			Mechanics III	HÜ 1			· · · · · · · · · · · · · · · · ·			
22	Mechanics I	HÜ 3			Mechanics III	UE 2			Bioprocess Engineering - Advance Bioprocess Engineering - Advance			
23			Electrical Engineering II		Mechanics III	VL 3			Bioprocess Engineering - Advanced			
24			Electrical Engineering II Electrical Engineering II	VL 3 UE 2					J. 1. 3			
25			Electrical Engineering II	UE 2			Biochemistry and Microbiology					
26							Biochemistry	VL 2				
27	Physics for Engineers (GES) (part 1))			Fundamentals of Process Engineer	ina	Biochemistry	POL 1				
28	Physics for Engineers	VL 2			Environmental Technologie	VL 2	Microbiology Microbiology	VL 2 POL 1				
_	Physics for Engineers	UE 1			Introduction into Process	VL 2	Wildiobiology	I OL I				
29			Mechanics II (GES) Mechanics II	VL 2	Engineering/Bioprocess Engineerin							
30			Mechanics II Mechanics II	VL 2 HÜ 2	Fundamentals of Technical Drawing and Materials	VL 1						
31				_	Fundamentals of Technical Drawing	HÜ 1	Bioprocess Engineering - Fundamer	ntals				
32					and Materials		Bioprocess Engineering -	VL 2				
33	†						Fundamentals Bioprocess Engineering-	HÜ 2				
- 33	1						biopiocess Engineering-	HU 2				

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5	Programming in C	
3	Programming in C	VL 1
	Programming in C	PR 1

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.