

Course of Study Process Engineering (Study Cohort w21)

Legend:
 Core qualification Compulsory
 Specialisation Compulsory
 Focus Compulsory
 Thesis Compulsory
 Core qualification Elective Compulsory
 Specialisation Elective Compulsory
 Focus Elective Compulsory
 Interdisciplinary complement

Sample course plan B Bachelor Process Engineering (VTBS)			Semester 3		Semester 4		Semester 5		Semester 6		
Year	Course	Form Hrs/wk	Form Hrs/wk	Form Hrs/wk	Form Hrs/wk	Form Hrs/wk	Form Hrs/wk	Form Hrs/wk	Form Hrs/wk	Form Hrs/wk	
1	Mathematics I		Technical Thermodynamics I		Basics of Electrical Engineering		Fundamentals of Fluid Mechanics		Heat and Mass Transfer		Process and Plant Engineering I
2	Linear Algebra I VL 2		Technical Thermodynamics I VL 2		Basics of Electrical Engineering VL 3		Fundamentals of Fluid Mechanics VL 2		Heat and Mass Transfer VL 2		Process and Plant Engineering I VL 2
3	Linear Algebra I GÜ 1		Technical Thermodynamics I HÜ 1		Basics of Electrical Engineering GÜ 2		Fluid Mechanics for Process Engineering HÜ 2		Heat and Mass Transfer GÜ 1		Process and Plant Engineering I HÜ 1
4	Linear Algebra I HÜ 1		Technical Thermodynamics I GÜ 1						Heat and Mass Transfer HÜ 1		Process and Plant Engineering I GÜ 1
5	Analysis I VL 2										
6	Analysis I GÜ 1										
7	Analysis I HÜ 1										
8			Mechanics II: Mechanics of Materials		Technical Thermodynamics II		Phase Equilibria Thermodynamics		Thermal Separation Processes		Particle Technology and Solids Process Engineering
9	General and Inorganic Chemistry		Mechanics II VL 2		Technical Thermodynamics II VL 2		Phase Equilibria Thermodynamics VL 2		Thermal Separation Processes VL 2		Particle Technology I VL 2
10	General and Inorganic Chemistry VL 3		Mechanics II GÜ 2		Technical Thermodynamics II HÜ 1		Phase Equilibria Thermodynamics GÜ 1		Thermal Separation Processes GÜ 2		Particle Technology I GÜ 1
11	Fundamentals in Inorganic Chemistry PR 3		Mechanics II HÜ 2		Technical Thermodynamics II GÜ 1		Phase Equilibria Thermodynamics HÜ 1		Thermal Separation Processes HÜ 1		Particle Technology I PR 2
12	Fundamentals in Inorganic Chemistry GÜ 1								Separation Processes PR 1		
13			Mathematics II		Construction and Apparatus Engineering		Renewables Energy Systems		Foundations of Management		Environmental Technology (part 2)
14			Linear Algebra II VL 2		Construction and Apparatus Engineering VL 2		Renewable Energy VL 2		Introduction to Management VL 3		Practical Exercise Environmental Technology PR 1
15	Fundamentals of Process Engineering and Material Engineering		Linear Algebra II GÜ 1		Construction and Apparatus Engineering GÜ 2		Energy Systems and Energy Industry VL 2		Management Tutorial GÜ 2		Bachelor Thesis
16	Introduction into Process Engineering/Bioprocess Engineering VL 2		Linear Algebra II HÜ 1				Power Industry VL 1				
17	Engineering HÜ 1		Analysis II VL 2				Renewable Energy GÜ 1				
18	Fundamentals of material engineering VL 2		Analysis II HÜ 1								
19	Mechanics I (Statics)		Analysis II GÜ 1								
20	Mechanics I VL 2				Mathematics III		Bioprocess Engineering - Fundamentals		Introduction to Control Systems		
21	Mechanics I GÜ 2				Analysis III VL 2		Bioprocess Engineering - Fundamentals VL 2		Introduction to Control Systems VL 2		
22	Mechanics I HÜ 1		Organic Chemistry		Analysis III GÜ 1		Bioprocess Engineering - Fundamentals HÜ 2		Introduction to Control Systems GÜ 2		
23			Organic Chemistry VL 4		Analysis III HÜ 1		Bioprocess Engineering - Fundamental Practical Course PR 2				
24	Measurement Technology for VT/ BVT		Organic Chemistry PR 3		Differential Equations 1 VL 2						
25	Measurement Technology VL 2				Differential Equations 1 GÜ 1						
26	Physical Fundamentals of Measurement Technology VL 2				Differential Equations 1 HÜ 1						
27	Practical Course Measurement Technology PR 2		Fundamentals of technical drawing				Computer Science for Engineers - Programming Concepts, Data Handling & Communication		Practice of Process Engineering		
28			Fundamentals of Technical Drawing VL 1		Chemical Reaction Engineering (part 1)		Computer Science for Engineers - Programming VL 3		Practice in Process Engineering PS 2		
29			Fundamentals of Technical Drawing HÜ 1		Chemical Reaction Engineering VL 2		Computer Science for Engineers - Programming GÜ 2		Lectures for Practice of Process Engineering SE 1		
30					Chemical Reaction Engineering HÜ 2		Concepts, Data Handling & Communication				
31									Environmental Technology (part 1)		
32							Chemical Reaction Engineering (part 2)		Environmental Technologie VL 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.

