

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 A Bachelor Process Engineering (VTBS)			Semester 3		Semester 4		Semester 5		Semester 6		
Year	Course	Form Hrs/wk	Course	Form Hrs/wk	Course	Form Hrs/wk	Course	Form Hrs/wk	Course	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											
14			Mathematics II		Construction and Apparatus Engineering		Renewables Energy Systems		Foundations of Management		Bachelor Thesis
15	Fundamentals of Process Engineering and Material Engineering		Linear Algebra II VL 2		Construction and Apparatus Engineering VL 2		Renewable Energy VL 2		Introduction to Management VL 3		
16	Introduction into Process Engineering/Bioprocess Engineering VL 2		Linear Algebra II GÜ 1		Construction and Apparatus Engineering GÜ 2		Energy Systems and Energy Industry VL 2		Management Tutorial GÜ 2		
17	Engineering VL 2		Linear Algebra II HÜ 1				Power Industry VL 1				
18	Fundamentals of material engineering VL 2		Analysis II VL 2				Renewable Energy GÜ 1				
19			Analysis II HÜ 1								
20			Analysis II GÜ 1								
21					Mathematics III		Bioprocess Engineering - Fundamentals		Introduction to Control Systems		
22			Organic Chemistry		Analysis III VL 2		Bioprocess Engineering - Fundamentals VL 2		Introduction to Control Systems VL 2		
23			Organic Chemistry VL 4		Analysis III GÜ 1		Bioprocess Engineering - Fundamentals HÜ 2		Introduction to Control Systems GÜ 2		
24			Organic Chemistry PR 3		Analysis III HÜ 1		Bioprocess Engineering - Fundamental Practical PR 2				
25	Measurement Technology for VT/ BVT				Differential Equations 1 VL 2		Course				
26	Measurement Technology VL 2				Differential Equations 1 GÜ 1						
27	Physical Fundamentals of Measurement Technology VL 2				Differential Equations 1 HÜ 1						
28	Practical Course Measurement Technology PR 2		Fundamentals of technical drawing				Computer Science for Engineers - Programming Concepts, Data Handling & Communication		Practice of Process Engineering		
29			Fundamentals of Technical Drawing VL 1		Chemical Reaction Engineering (part 1)		Computer Science for Engineers - Programming Concepts, Data Handling & Communication VL 3		Practice in Process Engineering PS 2		
30			Fundamentals of Technical Drawing HÜ 1		Chemical Reaction Engineering VL 2		Computer Science for Engineers - Programming Concepts, Data Handling & Communication GÜ 2		Lectures for Practice of Process Engineering SE 1		
31					Chemical Reaction Engineering HÜ 2						
32							Chemical Reaction Engineering (part 2)		Environmental Technology		
							Experimental Course Chemical Engineering PR 2		Environmental Assessment VL 2		
									Environmental Assessment GÜ 1		

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.

