

# Course of Study Process Engineering (Study Cohort w18)

Legend:  
 Focus Elective 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)	Form Hrs/wk	Semester 3	Form Hrs/wk	Semester 4	Form Hrs/wk	Semester 5	Form Hrs/wk	Semester 6	Form Hrs/wk
1	<b>Engineering Mechanics I</b>	<b>Engineering Mechanics II</b>	<b>Basics of Electrical Engineering</b>	<b>Fundamentals of Fluid Mechanics</b>	<b>Heat and Mass Transfer</b>	<b>Chemical Reaction Engineering (part 2)</b>			
2	Engineering Mechanics I VL 3	Engineering Mechanics II VL 3	Basics of Electrical Engineering VL 3	Fundamentals of Fluid Mechanics VL 2	Heat and Mass Transfer VL 2	Experimental Course Chemical Engineering PR 2			
3	Engineering Mechanics I GÜ 2	Engineering Mechanics II GÜ 2	Basics of Electrical Engineering GÜ 2	Fluid Mechanics for Process Engineering HÜ 2	Heat and Mass Transfer GÜ 1				
4					Heat and Mass Transfer HÜ 1	<b>Process and Plant Engineering I</b>			
5						Process and Plant Engineering I VL 2			
6						Process and Plant Engineering I HÜ 1			
7	<b>Mathematics I</b>	<b>Technical Thermodynamics I</b>	<b>Technical Thermodynamics II</b>	<b>Phase Equilibria Thermodynamics</b>	<b>Thermal Separation Processes</b>				
8	Linear Algebra I VL 2	Technical Thermodynamics I VL 2	Technical Thermodynamics II VL 2	Phase Equilibria Thermodynamics VL 2	Thermal Separation Processes VL 2				
9	Linear Algebra I GÜ 1	Technical Thermodynamics I HÜ 1	Technical Thermodynamics II HÜ 1	Phase Equilibria Thermodynamics GÜ 1	Thermal Separation Processes GÜ 2				
10	Linear Algebra I HÜ 1	Technical Thermodynamics I GÜ 1	Technical Thermodynamics II GÜ 1	Phase Equilibria Thermodynamics HÜ 1	Thermal Separation Processes HÜ 1	<b>Particle Technology and Solids Process Engineering</b>			
11	Analysis I VL 2				Separation Processes PR 1	Particle Technology I VL 2			
12	Analysis I GÜ 1					Particle Technology I GÜ 1			
13	Analysis I HÜ 1					Particle Technology I PR 2			
14		<b>Construction and Apparatus Engineering</b>	<b>Foundations of Management</b>	<b>Informatics for Process Engineers</b>	<b>Introduction to Control Systems</b>				
15	<b>General and Inorganic Chemistry</b>	Construction and Apparatus Engineering VL 2	Introduction to Management VL 3	Numeric and Matlab PR 2	Introduction to Control Systems VL 2				
16	General and Inorganic Chemistry VL 3	Construction and Apparatus Engineering GÜ 2	Management Tutorial HÜ 2	Informatics for Process Engineers VL 2	Introduction to Control Systems GÜ 2	<b>Environmental Technology (part 2)</b>			
17	Fundamentals in Inorganic Chemistry PR 3			Informatics for Process Engineers GÜ 2		Practical Exercise Environmental Technology PR 1			
18	Fundamentals in Inorganic Chemistry GÜ 1					<b>Bachelor Thesis</b>			
19									
20		<b>Mathematics II</b>	<b>Mathematics III</b>	<b>Bioprocess Engineering - Fundamentals</b>	<b>Chemical Reaction Engineering (part 1)</b>				
21	<b>Fundamentals of Process Engineering and Material Engineering</b>	Linear Algebra II VL 2	Analysis III VL 2	Bioprocess Engineering - Fundamentals VL 2	Chemical Reaction Engineering VL 2				
22	Introduction into Process Engineering/Bioprocess Engineering VL 2	Linear Algebra II GÜ 1	Analysis III GÜ 1	Bioprocess Engineering - Fundamentals HÜ 2	Chemical Reaction Engineering HÜ 2				
23	Engineering HÜ 1	Linear Algebra II HÜ 1	Analysis III HÜ 1	Bioprocess Engineering - Fundamental Practical Course PR 2					
24	Fundamentals of material engineering VL 2	Analysis II VL 2	Differential Equations 1 VL 2		<b>Measurement Technology for Mechanical Engineers</b>				
25		Analysis II HÜ 1	Differential Equations 1 GÜ 1		Measurement Technology for Mechanical Engineering VL 2				
26	<b>Physics</b>	Analysis II GÜ 1	Differential Equations 1 HÜ 1		Measurement Technology for Mechanical Engineering HÜ 1				
27	Physics VL 2				Practical Course: Measurement and Control Systems PR 2				
28	Physics GÜ 1								
29	Physics-Lab for VT/ BVT/ EUT PR 2	<b>Organic Chemistry</b>	<b>Physical Chemistry</b>						
30		Organic Chemistry VL 4	Physical Chemistry VL 2		<b>Environmental Technology (part 1)</b>				
31	<b>Fundamentals of technical drawing</b>	Organic Chemistry PR 3	Physical Chemistry PR 2		Environmental Technologie VL 2				
32	Fundamentals of Technical Drawing VL 1								
	Fundamentals of Technical Drawing HÜ 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.

