

Course of Study Process Engineering (Study Cohort w17)

Sample course plan A Master Process Engineering (VTMS)
Specialisation Process Engineering

Legend:

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

LP	Semester 1	Form Hrs/wk	Semester 2	Form Hrs/wk	Semester 3	Form Hrs/wk	Semester 4	Form Hrs/wk		
1	Particle Technology and Solid Matter Process Technology		Advanced Chemical Reaction Engineering		Process Design Project		Master Thesis			
2										
3		Advanced Particle Technology II		VL 2		Chemical Reaction Engineering		VL 2	Process Design Project	PK 6
4		Advanced Particle Technology II		UE 1		Chemical Reaction Engineering		HÜ 2		
5		Experimental Course Particle Technology		PR 3		Experimental Course Chemical Engineering		PR 2		
6										
7	Transport Processes		Bioprocess and Biosystems Engineering		Separation Technologies for Life Sciences					
8		Heat & Mass Transfer in Process Engineering		VL 2		Bioreactor Design and Operation		VL 2	Chromatographic Separation Processes	VL 2
9						Bioreactor Design and Operation		PR 1	Unit Operations for Bio-Related Systems	VL 2
10		Multiphase Flows		VL 2		Biosystems Engineering		VL 2	Unit Operations for Bio-Related Systems	PBL 2
11		Reactor Design Using Local Transport Processes		PBL 2		Biosystems Engineering		PBL 1		
12										
13	Process and Plant Engineering II		High Pressure Chemical Engineering		Thermal Engineering					
14		Process and Plant Engineering II		VL 2		Advanced Separation Processes		VL 2	Thermal Engineering	VL 3
15		Process and Plant Engineering II		HÜ 1		Industrial Processes Under High Pressure		VL 2	Thermal Engineering	HÜ 1
16		Process and Plant Engineering II		UE 1		High Pressure Technique for Apparatus Engineering		VL 2		
17										
18										
19	Fluid Mechanics in Process Engineering		Computer Aided Process Engineering (CAPE)		Research Project Process Engineering					
20		Fluid Mechanics II		VL 2		CAPE with Computer Exercises		VL 2	Research Project in Process Engineering	PBL 6
21		Applications of Fluid Mechanics in Process Engineering		HÜ 2		Methods of Process Safety and Dangerous Substances		VL 2		
22										
23										
24										
25					Food Technology					
26						Food Technology		VL 2		
27						Experimental Course: Brewing Technology		PR 2		
28										
29										
30										
Business & Management (from catalogue) - 6LP										
Nontechnical Elective Complementary Courses for Master (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.