

Course of Study Process Engineering (Study Cohort w17)

Sample course plan C Master Process Engineering (VTMS)
Specialisation Environmental 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		Membrane Technology								
8													
9		Heat & Mass Transfer in Process Engineering		VL		2		Bioreactor Design and Operation	VL	2	Membrane Technology	VL	2
10		Multiphase Flows		VL		2		Bioreactor Design and Operation	PR	1	Membrane Technology	UE	1
11		Reactor Design Using Local Transport Processes		PBL		2		Biosystems Engineering	VL	2	Membrane Technology	PR	1
12				Biosystems Engineering	PBL	1							
13	Process and Plant Engineering II		System Aspects of Renewable Energies		Aquatic Chemistry								
14													
15		Process and Plant Engineering II		VL		2		Energy Trading	VL	1	Chemistry of Drinking Water Treatment	VL	2
16		Process and Plant Engineering II		HÜ		1		Energy Trading	UE	1	Chemistry of Drinking Water Treatment	HÜ	1
17		Process and Plant Engineering II		UE		1		Fuel Cells, Batteries, and Gas Storage: New Materials for Energy Production and Storage	VL	2	Practical Course Aquatic Chemistry	PR	4
18				Deep Geothermal Energy	VL	2							
19	Fluid Mechanics in Process Engineering		Computer Aided Process Engineering (CAPE)		Wastewater Treatment and Air Pollution Abatement								
20													
21		Fluid Mechanics II		VL		2		CAPE with Computer Exercises	VL	2	Air Pollution Abatement	VL	2
22		Applications of Fluid Mechanics in Process Engineering		HÜ		2		Methods of Process Safety and Dangerous Substances	VL	2	Biological Wastewater Treatment	VL	2
23													
24													
25					Research Project Process Engineering								
26													
27						Research Project in Process Engineering		PBL	6				
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.