

Course of Study Process Engineering (Study Cohort w21)

Sample course plan C Master Process Engineering (VTMS)

Specialisation Environmental Process Engineering

		Core qualification Compulsory		Specialisation Compulsory		Focus Compulsory		Thesis Compulsory	
		Core qualification Elective Compulsory		Specialisation Elective Compulsory		Focus Elective Compulsory		Interdisciplinary complement	
		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	Advanced Particle Technology II	VL	2	Chemical Reaction Engineering	VL	Process Design Project	PK		
3	Advanced Particle Technology II	PBL	1	Chemical Reaction Engineering	HÜ				
4	Experimental Course Particle Technology	PR	3	Experimental Course Chemical Engineering	PR				
5									
6									
7	Transport Processes			Bioprocess and Biosystems Engineering		Process Modeling in Water Technology			
8	Heat & Mass Transfer in Process Engineering	VL	2	Bioreactor Design and Operation	VL	Process Modeling in Drinking Water Treatment	PBL		
9	Multiphase Flows	VL	2	Biosystems Engineering	VL	Process Modelling of Wastewater Treatment	PBL		
10	Reactor Design Using Local Transport Processes	PBL	2	Bioreactors and Biosystems Engineering	PBL				
11									
12									
13	Process and Plant Engineering II			System Aspects of Renewable Energies		Aquatic Chemistry			
14	Process and Plant Engineering II	VL	2	Energy Trading	VL	Chemistry of Drinking Water Treatment	VL		
15	Process and Plant Engineering II	HÜ	1	Energy Trading	GÜ	Chemistry of Drinking Water Treatment	HÜ		
16	Process and Plant Engineering II	GÜ	1	Fuel Cells, Batteries, and Gas Storage: New Materials for Energy Production and Storage	VL	Practical Course Aquatic Chemistry	PR		
17				Deep Geothermal Energy	VL				
18									
19	Fluid Mechanics in Process Engineering			Computer Aided Process Engineering (CAPE)		Wastewater Treatment and Air Pollution Abatement			
20	Fluid Mechanics II	VL	2	CAPE with Computer Exercises	IV	Air Pollution Abatement	VL		
21	Applications of Fluid Mechanics in Process Engineering	HÜ	2	Methods of Process Safety and Dangerous Substances	VL	Biological Wastewater Treatment	VL		
22									
23									
24									
25						Research Project Process Engineering			
26						Research Project in Process Engineering	PBL		6
27									
28									
29									
30									
Business & Management (from catalogue) - 6LP									
Non-technical 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.

