

Course of Study Process Engineering (Study Cohort w23)

Sample course plan C Master Process Engineering (VTMS)

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

Specialisation Environmental Process Engineering

Year	Course	Mode	Credits	Course	Mode	Credits	Course	Mode	Credits	Category
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	2	Process Design Project	PK	6	
3	Advanced Particle Technology II	PBL	1	Chemical Reaction Engineering	HÜ	2				
4	Experimental Course Particle Technology	PR	3	Experimental Course Chemical Engineering	PR	2				
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	2	Process Modeling in Drinking Water Treatment	PBL	2	
9	Multiphase Flows	VL	2	Biosystems Engineering	VL	2	Process Modelling of Wastewater Treatment	PBL	2	
10	Reactor Design Using Local Transport Processes	PBL	2	Bioreactors and Biosystems Engineering	PBL	1				
11										
12										
13	Process and Plant Engineering II			System Aspects of Renewable Energies			Research Project Process Engineering			
14	Process and Plant Engineering II	VL	2	Energy Trading	VL	1	Research Project in Process Engineering	PBL	6	
15	Process and Plant Engineering II	HÜ	2	Energy Trading	GÜ	1				
16				Fuel Cells, Batteries, and Gas Storage: New Materials for Energy Production and Storage	VL	2				
17				Deep Geothermal Energy	VL	2				
18										
19	Fluid Mechanics in Process Engineering			Process Simulation and Process Safety			Biological Waste Treatment			
20	Fluid Mechanics II	VL	2	CAPE with Computer Exercises	IV	3	Biological Waste Treatment	PBL	3	
21	Applications of Fluid Mechanics in Process Engineering	HÜ	2	Methods of Process Safety and Dangerous Substances	VL	2	Waste and Environmental Chemistry	PR	2	
22										
23										
24										
25							Waste Treatment and Recycling			
26							Recycling technologies and thermal waste treatment	VL	2	
27							Recycling technologies and thermal waste treatment	GÜ	1	
28							Planning of waste treatment plants	PBL	3	
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.

