

Course of Study Process Engineering (Study Cohort w24)

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			
1	Particle Technology and Solid Matter Process Technology		Advanced Chemical Reaction Engineering
2	Advanced Particle Technology II VL 2		Chemical Reaction Engineering VL 2
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
8	Heat & Mass Transfer in Process Engineering VL 2		Bioreactor Design and Operation VL 2
9	Multiphase Flows VL 2		Biosystems Engineering VL 2
10	Reactor design under consideration of local transport processes PBL 2		Bioreactors and Biosystems Engineering PBL 1
11			
12			
13	Fluid Mechanics in Process Engineering		System Aspects of Renewable Energies
14	Fluid Mechanics II VL 2		Energy Trading VL 1
15	Applications of Fluid Mechanics in Process Engineering 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	Process modeling and control		Process Simulation and Process Safety
20	Process modeling and control VL 2		CAPE with Computer Exercises IV 3
21	Process modeling and control GÜ 3		Methods of Process Safety and Dangerous Substances VL 2
22			
23			
24			
25			Biological Waste Treatment
26			Biological Waste Treatment PBL 3
27			Waste and Environmental Chemistry PR 2
28			
29			
30			Waste Treatment and Recycling
			Recycling technologies and thermal waste treatment VL 2
			Recycling technologies and thermal waste treatment GÜ 1
			Planning of waste treatment plants PBL 3
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.

