Course of Study Process Engineering (Study Cohort w24)

Sample course plan C Master Process Engineering (VTMS) Dual study program
Specialisation Environmental Process Engineering

Specia	lisation Environmental Process Engineering			
1	Particle Technology and Solid Matter Process Technology	Advanced Chemical Reaction Engineering	Process Design Project	Master thesis (dual study program)
2	Advanced Particle Technology II VL 2	Chemical Reaction Engineering VL 2	Process Design Project PK 6	
2	Advanced Particle Technology II PBL 1	Chemical Reaction Engineering HÜ 2		
3	Experimental Course Particle Technology PR 3	Experimental Course Chemical Engineering PR 2		
4				
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/	Iransport Processes Heat & Mass Transfer in Process Engineering V/I 2	Bioprocess and Biosystems Engineering Bioreactor Design and Operation VI 2	Practical module 3 (dual study program, Master's degree) Practical term 3	
8	Multiphase Flows VL 2	Biosystems Engineering VL 2	The deal terms	
9	Reactor design under consideration of local transport processes PBL 2	Bioreactors and Biosystems Engineering PBL 1		
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13	Fluid Mechanics in Process Engineering	Practical module 2 (dual study program, Master's degree)		
14	Fluid Mechanics II VL 2	Practical term 2 0		
15	Applications of Huid Mechanics in Process Engineering HU 2			
16				
17				
1/			Process Modeling in Water Technology Process Modeling in Drinking Water Treatment PROCESS Modeling in Drinking Water Treatment PROCESS Modeling in Drinking Water Treatment PROCESS Modeling in Process Proces	
18			Process Modeling in Drinking Water Treatment PBL 2	
19	Practical module 1 (dual study program, Master's degree)			
20	Practical term 1 0			
21				
22				
22				
23		System Aspects of Renewable Energies	Research Project Process Engineering	
24		Energy Irading VL 1 Energy Trading GÜ 1	Research Project in Process Engineering PBL 6	
25		Fuel Cells, Batteries, and Gas Storage: New Materials for Energy Production VL 2		
26		and Storage		
27		Deep Geothermal Energy VL 2		
27				
28				
29	Process modeling and control	Process Simulation and Process Safety	Biological Waste Treatment	
30	Process modeling and control VL 2	CAPE with Computer Exercises IV 3	Biological Waste Treatment PBL 3	
31	Process modeling and control GU 3	Methods of Process Safety and Dangerous Substances VL 2	waste and Environmental Chemistry PR 2	
32				
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35			Waste Treatment and Recycling	
36			Recycling technologies and thermal waste treatment VL 2	
37			Recycling technologies and thermal waste treatment GÜ 1	
20			Planning or waste treatment plants PBL 3	
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	Business & Management (from catalogue) - 6LP			
	Linking theory and practice (dual study program, Master's degree) (from catalogue) - 6LP			

Focus Compulsory

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Core Qualification Elective Compulsory Specialisation Elective Compulsory Focus Elective Compulsory

Thesis Compulsory

Interdisciplinary complement

The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.