Course of Study Process Engineering (Study Cohort w19)

Sample course plan A Master Process Engineering (VTMS)

Specialisation Process Engineering

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	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**			**Separation Technologies for Life Sciences**					
8	Heat & Mass Transfer in Process Engineering	VL	2	Bioreactor Design and Operation	VL	2	Chromatographic Separation Processes	VL	2			
9	Multiphase Flows	VL	2	Biosystems Engineering	VL	2	Unit Operations for Bio-Related Systems	VL	2			
10	Reactor Design Using Local Transport Processes	PBL	2	Bioreactors and Biosystems Engineering	PBL	1	Unit Operations for Bio-Related Systems	PBL	2			
11												
12												
13	**Process and Plant Engineering II**			**High Pressure Chemical Engineering**			**Process Modeling in Water Technology**					
14	Process and Plant Engineering II	VL	2	Advanced Separation Processes	VL	2	Process Modeling in Drinking Water Treatment	PBL	2			
15	Process and Plant Engineering II	HÜ	1	Industrial Processes Under High Pressure	VL	2	Process Modelling of Wastewater Treatment	PBL	2			
16	Process and Plant Engineering II	GÜ	1	High Pressure Technique for Apparatus Engineering	VL	2						
17												
18												
19	**Fluid Mechanics in Process Engineering**			**Computer Aided Process Engineering (CAPE)**			**Research Project Process Engineering**					
20	Fluid Mechanics II	VL	2	CAPE with Computer Exercises	VL	2	Research Project in Process Engineering	PBL	6			
21	Applications of Fluid Mechanics in Process Engineering	HÜ	2	Methods of Process Safety and Dangerous Substances	VL	2						
22												
23												
24												
25							**Food Technology**					
26							Food Technology	VL	2			
27							Experimental Course: Brewing Technology	PR	2			
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.