Course of Study Process Engineering (Study Cohort w17)

Sample course plan B Master Process Engineering (VTMS)
Specialisation Chemical Process Engineering

Legend:

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	UE	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**			**Applied Thermodynamics: Thermodynamic Properties for Industrial Applications**					
8	Heat & Mass Transfer in Process Engineering	VL	2	Bioreactor Design and Operation	VL	2	Applied Thermodynamics: Thermodynamic Properties for Industrial Applications	VL	4			
9				Bioreactor Design and Operation	PR	1						
10	Multiphase Flows	VL	2	Biosystems Engineering	VL	2	Applied Thermodynamics: Thermodynamic Properties for Industrial Applications	UE	2			
11												
12	Reactor Design Using Local Transport Processes	PBL	2	Biosystems Engineering	PBL	1						
13	**Process and Plant Engineering II**			**Computer Aided Process Engineering (CAPE)**			**Synthesis and Design of Industrial Processes**					
14	Process and Plant Engineering II	VL	2	CAPE with Computer Exercises	VL	2	Synthesis and Design of Industrial Facilities	VL	1			
15	Process and Plant Engineering II	HÜ	1	Methods of Process Safety and Dangerous Substances	VL	2	Industrial Plant Design and Economics	PBL	3			
16	Process and Plant Engineering II	UE	1									
17												
18												
19	**Fluid Mechanics in Process Engineering**			**Heterogeneous Catalysis**			**Examples in Solid Process Engineering**					
20	Fluid Mechanics II	VL	2	Analysis and Design of Heterogeneous Catalytic Reactors	VL	2	Fluidization Technology	VL	2			
21							Technical Applications of Particle Technology	VL	2			
22	Applications of Fluid Mechanics in Process Engineering	HÜ	2	Modern Methods in Heterogeneous Catalysis	VL	2						
23							Practical Course Fluidization Technology	PR	1			
24				Modern Methods in Heterogeneous Catalysis	PR	2	Exercises in Fluidization Technology	UE	1			
25							**Research Project Process Engineering**					
26												
27							Research Project in Process Engineering	PBL	6			
28												
29												
30												
	Business & Management (from catalogue) - 6LP											
	Nontechnical Elective Complementary 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.