

Course of Study Process Engineering (Study Cohort w21)

Sample course plan B Master Process Engineering (VTMS)

Specialisation Chemical Process Engineering

		Semester 2		Semester 3		Semester 4			
	Form	Hrs/wk	Form	Hrs/wk	Form	Hrs/wk	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		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	Multiphase Flows	VL	2	Biosystems Engineering	VL	2	Applied Thermodynamics: Thermodynamic Properties for Industrial Applications	GÜ	2
10	Reactor Design Using Local Transport Processes	PBL	2	Bioreactors and Biosystems Engineering	PBL	1			
11									
12									
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	IV	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	GÜ	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	Applications of Fluid Mechanics in Process Engineering	HÜ	2	Modern Methods in Heterogeneous Catalysis	VL	2	Technical Applications of Particle Technology	VL	2
22				Modern Methods in Heterogeneous Catalysis	PR	2	Practical Course Fluidization Technology	PR	1
23							Exercises in Fluidization Technology	GÜ	1
24									
25							Research Project Process Engineering		
26							Research Project in Process Engineering	PBL	6
27									
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.

