

# Course of Study Process Engineering (Study Cohort w21)

Sample course plan A 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 Process Engineering		Form	Hrs/wk	Semester 2		Form	Hrs/wk	Semester 3		Form	Hrs/wk	Semester 4		Form	Hrs/wk
1	<b>Particle Technology and Solid Matter Process Technology</b>			<b>Advanced Chemical Reaction Engineering</b>				<b>Process Design Project</b>				<b>Master Thesis</b>			
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	<b>Transport Processes</b>			<b>Bioprocess and Biosystems Engineering</b>				<b>Separation Technologies for Life Sciences</b>							
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	<b>Process and Plant Engineering II</b>			<b>High Pressure Chemical Engineering</b>				<b>Process Modeling in Water Technology</b>							
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 plant and vessel design	VL	2									
17															
18															
19	<b>Fluid Mechanics in Process Engineering</b>			<b>Computer Aided Process Engineering (CAPE)</b>				<b>Research Project Process Engineering</b>							
20	Fluid Mechanics II	VL	2	CAPE with Computer Exercises	IV	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								<b>Food Technology</b>							
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.

