## Course of Study Process Engineering (Study Cohort w24)

Sample course plan D Master Process Engineering (VTMS)								Interdisciplinary complement
Specialisation Process Engineering								
1	Particle Technology and Solid Matter Process Technology		Advanced Chemical Reaction Engineering		Process Design Project	Master 1	Thesis	
2	Advanced Particle Technology II	VL 2	Chemical Reaction Engineering	VL 2	Process Design Project PK	6		
-	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								
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 under consideration of local transport processes	PBL 2	Bioreactors and Biosystems Engineering	PBL 1	Unit Operations for Bio-Related Systems PBL	2		
11								
12								
13	Eluid Mechanics in Process Engineering		Applied optimization in operay and process opgineering		Brocoss Modeling in Water Technology			
1.5	Fluid Mechanics II	VL 2	Applied optimization in energy and process engineering	IV 2	Process Modeling in Drinking Water Treatment PBL	2		
14	Applications of Fluid Mechanics in Process Engineering	HŪ 2	Applied optimization in energy and process engineering	GÜ 3	Process Modelling of Wastewater Treatment PBL	2		
15								
16								
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19	Process modeling and control		Process Simulation and Process Safety		Synthesis and Design of Industrial Processes			
20	Process modeling and control	VL 2	CAPE with Computer Exercises	IV 3	Synthesis and Design of Industrial Facilities VL	1		
21	Process modeling and control	GÜ 3	Methods of Process Safety and Dangerous Substances	VL 2	Industrial Plant Design and Economics PBL	3		
22								
23								
24								
25					Research Project Process Engineering			
26					Research Project in Process Engineering PBL	6		
27								
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20								
30								
	Business & Management (from catalogue) - 6LP							
	Non-technical Courses for Master (from catalogue) - 6LP							

Focus Compulsory

ion Compulsory

Thesis Compulsory

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