

# Course of Study Process Engineering (Study Cohort w24)

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			
1	<b>Particle Technology and Solid Matter Process Technology</b>		<b>Advanced Chemical Reaction Engineering</b>
2	Advanced Particle Technology II VL 2		Chemical Reaction Engineering VL 2
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>
8	Heat & Mass Transfer in Process Engineering VL 2		Bioreactor Design and Operation VL 2
9	Multiphase Flows VL 2		Biosystems Engineering VL 2
10	Reactor design under consideration of local transport processes PBL 2		Bioreactors and Biosystems Engineering PBL 1
11			
12			
13	<b>Fluid Mechanics in Process Engineering</b>		<b>High Pressure Chemical Engineering</b>
14	Fluid Mechanics II VL 2		Advanced Separation Processes VL 2
15	Applications of Fluid Mechanics in Process Engineering HÜ 2		Industrial Processes Under High Pressure VL 2
16			High pressure plant and vessel design VL 2
17			
18			
19	<b>Process modeling and control</b>		<b>Process Simulation and Process Safety</b>
20	Process modeling and control VL 2		CAPE with Computer Exercises IV 3
21	Process modeling and control GÜ 3		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.

