

# Course of Study Process Engineering (Study Cohort w23)

Sample course plan A Master Process Engineering (VTMS) Dual study program

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 Using Local Transport Processes PBL 2		Bioreactors and Biosystems Engineering PBL 1
11			
12			
13	<b>Process and Plant Engineering II</b>		<b>Practical module 2 (dual study program, Master's degree)</b>
14	Process and Plant Engineering II VL 2		Practical term 2 0
15	Process and Plant Engineering II HÜ 2		
16			
17			
18			<b>Separation Technologies for Life Sciences</b>
19	<b>Fluid Mechanics in Process Engineering</b>		Chromatographic Separation Processes VL 2
20	Fluid Mechanics II VL 2		Unit Operations for Bio-Related Systems VL 2
21	Applications of Fluid Mechanics in Process Engineering HÜ 2		Unit Operations for Bio-Related Systems PBL 2
22			
23			<b>High Pressure Chemical Engineering</b>
24			Advanced Separation Processes VL 2
25	<b>Practical module 1 (dual study program, Master's degree)</b>		Industrial Processes Under High Pressure VL 2
26	Practical term 1 0		High pressure plant and vessel design VL 2
27			
28			
29			<b>Process Simulation and Process Safety</b>
30			CAPE with Computer Exercises IV 3
31			Methods of Process Safety and Dangerous Substances VL 2
32			
33			
34			
35			<b>Food Technology</b>
36			Food Technology VL 2
37			Experimental Course: Brewing Technology PR 2
38			
39			
40			
Business & Management (from catalogue) - 6LP			
Linking theory and practice (dual study program, Master's degree) (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.

