**Course of Study Process Engineering (Study Cohort w23)** 

Core Qualification Elective Compulsory Specialisation Elective Compulsory Focus Elective Compulsory Sample course plan B Master Process Engineering (VTMS) Dual study program Interdisciplinary complement Specialisation Chemical Process Engineering Particle Technology and Solid Matter Process Technology Advanced Chemical Reaction Engineering Process Design Project Master thesis (dual study program) Process Design Project Advanced Particle Technology II 2 Advanced Particle Technology II Chemical Reaction Engineering ΗÜ 2 3 Experimental Course Particle Technology Experimental Course Chemical Engineering 5 6 Transport Processes Bioprocess and Biosystems Engineering Practical module 3 (dual study program, Master's degree) Bioreactor Design and Operation 8 VL 2 9 Reactor Design Using Local Transport Processes PBI - 1 Bioreactors and Biosystems Engineering 10 11 12 Process and Plant Engineering II Practical module 2 (dual study program, Master's degree) 14 Process and Plant Engineering II ΗÜ 2 15 16 17 Applied Thermodynamics: Thermodynamic Properties for Industrial Applications Applied Thermodynamics: Thermodynamic Properties for Industrial 18 19 Fluid Mechanics in Process Engineering Applied Thermodynamics: Thermodynamic Properties for Industrial Applications of Fluid Mechanics in Process Engineering 21 22 23 Heterogeneous Catalysis Synthesis and Design of Industrial Processes Analysis and Design of Heterogeneous Catalytic Reactors VL 2 Synthesis and Design of Industrial Facilities VL 1 24 Modern Methods in Heterogeneous Catalysis VL 2 Industrial Plant Design and Economics Practical module 1 (dual study program, Master's degree) Modern Methods in Heterogeneous Catalysis 27 28 29 Process Simulation and Process Safety Examples in Solid Process Engineering CAPE with Computer Exercises Fluidization Technology 30 Methods of Process Safety and Dangerous Substances Technical Applications of Particle Technology 31 Practical Course Fluidization Technology PR 1 32 Exercises in Fluidization Technology GÜ 1 33 34 35 Research Project Process Engineering Research Project in Process Engineering PBL 6 36 37 38 39 40 Business & Management (from catalogue) - 6LP Linking theory and practice (dual study program, Master's degree) (from catalogue) - 6LP

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.