Course of Study Process Engineering (Study Cohort w23)

Core Qualification Elective Compulsory Specialisation Elective Compulsory Focus Elective Compulsory Sample course plan C Master Process Engineering (VTMS) Dual study program Interdisciplinary complement Specialisation Environmental 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 Process Modeling in Water Technology Process Modeling in Drinking Water Treatment PBI 2 18 Process Modelling of Wastewater Treatment 19 Fluid Mechanics in Process Engineering Applications of Fluid Mechanics in Process Engineering 21 22 23 System Aspects of Renewable Energies Research Project Process Engineering Energy Trading VL 1 Research Project in Process Engineering PBL 6 24 Energy Trading GÜ 1 Practical module 1 (dual study program, Master's degree) Fuel Cells, Batteries, and Gas Storage: New Materials for Energy Production VL 2 and Storage Deep Geothermal Energy 27 28 29 Process Simulation and Process Safety **Biological Waste Treatment** CAPE with Computer Exercises Biological Waste Treatment PBL 3 30 Methods of Process Safety and Dangerous Substances Waste and Environmental Chemistry 31 32 33 34 35 Waste Treatment and Recycling Recycling technologies and thermal waste treatment 36 Recycling technologies and thermal waste treatment GÜ 1 37 Planning of waste treatment plants 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.