

Course of Study Process Engineering (Study Cohort w24)

Sample course plan D 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 | Particle Technology and Solid Matter Process Technology | | Advanced Chemical Reaction Engineering |
| 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 | Transport Processes | | Bioprocess and Biosystems Engineering |
| 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 | Fluid Mechanics in Process Engineering | | Applied optimization in energy and process engineering |
| 14 | Fluid Mechanics II VL 2 | | Applied optimization in energy and process engineering IV 2 |
| 15 | Applications of Fluid Mechanics in Process Engineering HÜ 2 | | Applied optimization in energy and process engineering GÜ 3 |
| 16 | | | |
| 17 | | | |
| 18 | | | |
| 19 | Process modeling and control | | Process Simulation and Process Safety |
| 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 | | | Research Project Process Engineering |
| 26 | | | Research Project in Process Engineering PBL 6 |
| 27 | | | |
| 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.

