

Course of Study Process Engineering (Study Cohort w19)

Sample course plan C Master Process Engineering (VTMS)

Specialisation Environmental Process Engineering

| | | Semester 2 | | Semester 3 | | Semester 4 | |
|---|--|------------|--------|---|--------|---|--------|
| | | Form | Hrs/wk | Form | Hrs/wk | Form | Hrs/wk |
| 1 | Particle Technology and Solid Matter Process Technology | | | Advanced Chemical Reaction Engineering | | Process Design Project | |
| 2 | Advanced Particle Technology II | VL | 2 | Chemical Reaction Engineering | VL | Process Design Project | PK 6 |
| 3 | Advanced Particle Technology II | PBL | 1 | Chemical Reaction Engineering | HÜ | | |
| 4 | Experimental Course Particle Technology | PR | 3 | Experimental Course Chemical Engineering | PR | | |
| 5 | | | | | | | |
| 6 | | | | | | | |
| 7 | Transport Processes | | | Bioprocess and Biosystems Engineering | | Process Modeling in Water Technology | |
| 8 | Heat & Mass Transfer in Process Engineering | VL | 2 | Bioreactor Design and Operation | VL | Process Modeling in Drinking Water Treatment | PBL 2 |
| 9 | Multiphase Flows | VL | 2 | Biosystems Engineering | VL | Process Modelling of Wastewater Treatment | PBL 2 |
| 10 | Reactor Design Using Local Transport Processes | PBL | 2 | Bioreactors and Biosystems Engineering | PBL | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | Process and Plant Engineering II | | | System Aspects of Renewable Energies | | Aquatic Chemistry | |
| 14 | Process and Plant Engineering II | VL | 2 | Energy Trading | VL | Chemistry of Drinking Water Treatment | VL 2 |
| 15 | Process and Plant Engineering II | HÜ | 1 | Energy Trading | GÜ | Chemistry of Drinking Water Treatment | HÜ 1 |
| 16 | Process and Plant Engineering II | GÜ | 1 | Fuel Cells, Batteries, and Gas Storage: New Materials for Energy Production and Storage | VL | Practical Course Aquatic Chemistry | PR 4 |
| 17 | | | | Deep Geothermal Energy | VL | | |
| 18 | | | | | | | |
| 19 | Fluid Mechanics in Process Engineering | | | Computer Aided Process Engineering (CAPE) | | Wastewater Treatment and Air Pollution Abatement | |
| 20 | Fluid Mechanics II | VL | 2 | CAPE with Computer Exercises | VL | Air Pollution Abatement | VL 2 |
| 21 | Applications of Fluid Mechanics in Process Engineering | HÜ | 2 | Methods of Process Safety and Dangerous Substances | VL | Biological Wastewater Treatment | 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.

