

# Course of Study Process Engineering (Study Cohort w23)

Sample course plan A 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   | <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>High Pressure Chemical Engineering</b>               |
| 14  | Process and Plant Engineering II VL 2                          |  | Advanced Separation Processes VL 2                      |
| 15  | Process and Plant Engineering II HÜ 2                          |  | Industrial Processes Under High Pressure VL 2           |
| 16  |  |  | High pressure plant and vessel design VL 2              |
| 17  |  |  |   |
| 18  |  |  |   |
| 19  | <b>Fluid Mechanics in Process Engineering</b>                  |  | <b>Process Simulation and Process Safety</b>            |
| 20  | Fluid Mechanics II VL 2  |  | CAPE with Computer Exercises IV 3                       |
| 21  | Applications of Fluid Mechanics in Process Engineering HÜ 2    |  | Methods of Process Safety and Dangerous Substances VL 2 |
| 22  |  |  |   |
| 23  |  |  |   |
| 24  |  |  |   |
| 25  |  |  | <b>Food Technology</b>                                  |
| 26  |  |  | Food Technology VL 2                                    |
| 27  |  |  | Experimental Course: Brewing Technology PR 2            |
| 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.

