## Course of Study Chemical and Bioprocess Engineering (Study Cohort w19)

Core Qualification Elective Compulsory Specialisation Elective Compulsory Focus Elective Compulsory Sample course plan A Master Chemical and Bioprocess Engineering (IMPCBE) Interdisciplinary complement Specialisation Chemical Process Engineering Form Hrs/wk Semester 3 Form Hrs/wk Form Hrs/wk Semester 4 Applied Thermodynamics: Thermodynamic Properties for Industrial Applications Master Thesis Bioprocess and Biosystems Engineering Process Design Project Applied Thermodynamics: Thermodynamic Properties for Industrial Bioreactor Design and Operation Process Design Project 2 VL 2 3 Applied Thermodynamics: Thermodynamic Properties for Industrial Bioreactors and Biosystems Engineering PBL Applications 5 6 Separation Technologies for Life Sciences Heterogeneous Catalysis Research project IMP Chemical and Bioprocess Engineering Analysis and Design of Heterogeneous Catalytic Reactors Research Project IMP Chemical and Bioprocess Engineering 8 Unit Operations for Bio-Related Systems Modern Methods in Heterogeneous Catalysis VL 2 9 2 Unit Operations for Bio-Related Systems Modern Methods in Heterogeneous Catalysis 10 11 12 Biocatalysis Technical Microbiology Industrial Process Automation Applied Molecular Biology 14 Biocatalysis and Enzyme Technology Technical Microbiology VL Industrial Process Automation GÜ 2 15 Technical Microbiology 16 17 18 High Pressure Chemical Engineering Process Systems Engineering and Transport Processes Membrane Technology GÜ 1 VL 2 Industrial Processes Under High Pressure VL Membrane Technology 21 High Pressure Technique for Apparatus Engineering Process Systems Engineering Membrane Technology 23 24 Particle Technology for International Master Programs Practicle Course Particle Technology for IMP 27 Excercise Particle Technology for International Master Program 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.