Course of Study Mechanical Engineering and Management (Study Cohort w22)

Core Qualification Elective Compulsory Specialisation Elective Compulsory Focus Elective Compulsory Sample course plan A Master Mechanical Engineering and Management (IMPMEM) Dual study program Specialisation Product Development and Production, Specialisation Materials Structure and properties of fibre-polymer-composites Research Project IMPMEM Master thesis (dual study program) Robotics: Modelling and Control Structure and properties of fibre-polymer-composites VL 2 2 Robotics: Modelling and Control Structure and properties of fibre-polymer-composites ΗÜ 1 Structure and properties of fibre-polymer-composites PBL 5 6 Computer Aided Design and Computation Practical module 2 (dual study program, Master's degree) Computer Aided Design and Computation 8 Computer Aided Design and Computation GÜ 2 10 11 12 13 Practical module 1 (dual study program, Master's degree) Practical module 3 (dual study program, Master's degree) Practical term 3 14 15 16 17 Selected Topics of Mechanical Engineering and Management (Alternative A: 12 CP) 18 Selection from a catalog 19 20 21 22 23 High-Order FEM Selected Topics of Mechanical Engineering and Management (Alternative A: 12 CP) Laser Systems and Metallic Materials High-Order FEM Laser Systems and Process Technologies VL VL 2 24 Selection from a catalog High-Order FEM Structural Metallic Materials 25 26 27 28 29 Advanced Functional Materials Applied Design Methodology in Mechatronics Interfaces and interface-dominated Materials (part 2) Advanced Functional Materials Applied Design Methodology in Mechatronics VL Nature's Hierarchical Materials 30 Applied Design Methodology in Mechatronics 31 32 33 34 35 Interfaces and interface-dominated Materials (part 1) Interfaces 36 37 38 Processing of fibre-polymer-composites From Molecule to Composites Part 39 Processing of fibre-polymer-composites 40 41 Business & Management (from catalogue) - 6LP Linking theory and practice (dual study program, Master's degree) (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.