# Course of Study Mechanical Engineering and Management (Study Cohort w17)

Sample course plan B Master Mechanical Engineering and Management (IMPMEM)
Specialisation Mechatronics, Specialisation Product Development and Production

Legend:

| | | | |
|---|---|---|---|
| Core qualification Compulsory | Specialisation Compulsory | Focus Compulsory | Thesis Compulsory |
| Core qualification Elective Compulsory | Specialisation Elective Compulsory | Focus Elective Compulsory | Interdisciplinary complement |

| LP | Semester 1 | Form | Hrs/wk | Semester 2 | Form | Hrs/wk | Semester 3 | Form | Hrs/wk | Semester 4 | Form | Hrs/wk |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | **Robotics** | | | **Fibre-polymer-composites** | | | **Research Project IMPMEM** | | | **Master Thesis** | | |
| 2 | Robotics: Modelling and Control | VL | 3 | Design with fibre-polymer-composites | VL | 2 | | | | | | |
| 3 | Robotics: Modelling and Control | UE | 2 | Structure and properties of fibre-polymer-composites | VL | 2 | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | **Computer Aided Design and Computation** | | | **Selected Topics of Business Administration (IPM) (part 2)** | | | | | | | | |
| 8 | Computer Aided Design and Computation | VL | 2 | Human Resource Management and Organization Design | VL | 2 | | | | | | |
| 9 | Computer Aided Design and Computation | UE | 2 | Project Management Methods | VL | 1 | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | **Selected Topics of Mechanical Engineering and Management (part 2)** | | | | | | | | |
| 12 | | | | Selection from a catalog | | | | | | | | |
| 13 | **Selected Topics of Business Administration (IPM) (part 1)** | | | | | | **Industrial Process Automation** | | | | | |
| 14 | Corporate Finance | VL | 2 | **Nonlinear Dynamics** | | | Industrial Process Automation | VL | 2 | | | |
| 15 | | | | Nonlinear Dynamics | VL | 4 | Industrial Process Automation | UE | 2 | | | |
| 16 | **Selected Topics of Mechanical Engineering and Management (part 1)** | | | | | | | | | | | |
| 17 | Selection from a catalog | | | | | | | | | | | |
| 18 | **Vibration Theory (GES)** | | | | | | **3D Printing Laboratory** | | | | | |
| 19 | Vibration Theory | VL | 2 | | | | 3D Printing Laboratory | PR | 3 | | | |
| 20 | Vibration Theory | HÜ | 1 | **Rapid Production** | | | | | | | | |
| 21 | | | | Rapid Production | VL | 2 | | | | | | |
| 22 | | | | Rapid Production | SE | 2 | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | **Laser Systems and Metallic Materials** | | | | | |
| 25 | | | | | | | Laser Systems and Process Technologies | VL | 2 | | | |
| 26 | | | | | | | Structural Metallic Materials | VL | 2 | | | |
| 27 | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | |

Business & Management (from catalogue) - 6LP

Nontechnical Elective Complementary 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.