

Summer term:

Master-level:

| Course Title | Credit Points | Type | Study Program |
|--|---------------|--------------------------|--|
| Machining Technology II | 5,0 | Lecture + Exercise | Master Manufact. Technology MMT |
| Materials Technology II | 5,0 | Lecture + Exercise | Master Manufact. Technology MMT |
| Forming Technology II | 5,0 | Lecture + Exercise | Master Manufact. Technology MMT |
| Automation and Handling Systems | 5,0 | Lecture + Exercise | Master Manufact. Technology MMT |
| Introduction to Finite Element Method II | 5,0 | Lecture + Exercise | Master Manufact. Technology MMT |
| Fatigue Behavior | 5,0 | Lecture + Exercise | Master Manufact Technology MMT. |
| Selected Topics in Computational Mechanics I | 4,0 | Lecture + Exercise | Mechanical Engineering M.Sc. |
| 3D Computer Vision | 5,0 | Lecture + Exercise | Industrial Engineering M.Sc./ Electro- and Infromationtechnik |
| Local Networks – Communication and Control | 5,0 | Lecture + Exercise | Industrial Engineering M.Sc. |
| Smart Grids | 5,0 | Lecture + Exercise | Industrial Engineering M.Sc. |
| Automation and Robotics | 3,0 | Lecture | Automation and Robotics M.Sc. |
| Scheduling Problems and Solutions | 10,0 | Lecture + Tutorial + Lab | Automation and Robotics M.Sc. |
| Logic Control (LC) | 6,0 | Lecture + Tutorial | Automation and Robotics M.Sc. |
| Process Control Lab | 4,0 | Lab | Automation and Robotics M.Sc. |
| Data-Based Dynamic Modeling (DDM) | 3,0 | Lecture + Tutorial | Automation and Robotics M.Sc. |
| Process Optimization | 4,0 | Lecture + Tutorial + Lab | Automation and Robotics M.Sc. |
| Computer Vision (CV) | 6,0 | Lecture + Tutorial | Automation and Robotics M.Sc. |
| 3D Computer Vision | 5,0 | Lecture + Tutorial | Automation and Robotics M.Sc. |
| Aspects of Mathematical Modeling | 5,0 | Lecture + Tutorial | Automation and Robotics M.Sc. |
| Cyber-Physical System Fundamentals (CPSF) | 5,0 | Lecture + Lab | Automation and Robotics M.Sc. |
| Dynamic Models (DM) | 3,0 | Lecture + Tutorial | Automation and Robotics M.Sc. |
| Logistics of Chemical Production Processes | 3,0 | Lecture + Tutorial | Automation and Robotics M.Sc. |
| Statistics for Researchers in Engineering Sciences | 5,0 | Lecture + Tutorial | Automation and Robotics M.Sc. |
| Mobile Robots (MR) | 5,0 | Lecture + Tutorial | Automation and Robotics M.Sc./ Electro- and Information Technology M.Sc. |
| Network Mobile Robot Systems | 5,0 | Lecture + Tutorial + Lab | Automation and Robotics M.Sc. |

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| Learning in Robotics | 5,0 | Lecture + Tutorial | Automation and Robotics M.Sc./ Electro- and Information Technology M.Sc. |
| Smart Grids (SG) | 6,0 | Lecture + Presentation | Automation and Robotics M.Sc./ Electro- and Information Technology M.Sc. |
| Mathematical Simulation Techniques | 5,0 | Lecture + Tutorial | Automation and Robotics M.Sc. |
| Real-Time Operating Systems Design and Implementation | 6,0 | Lecture + Tutorial | Automation and Robotics M.Sc. |
| Scheduling Problems and Solutions | 10,0 | Lecture + Tutorial + Lab | Electro- and Information Technology M.Sc. |
| Methods of Information Technology | 10,0 | Lecture + Exercise | Electro- and Information Technology M.Sc. |
| Local Networks - Communication and Control | 5,0 | Lecture + Exercise | Electro- and Information Technology M.Sc. |
| Remote Sensing | 5,0 | Lecture + Exercise | Electro- and Information Technology M.Sc. |
| Robot and Interface Mechanisms | 5,0 | Lecture + Exercise + Lab | Electro- and Information Technology M.Sc. |
| Distributed and Networked Control | 5,0 | Lecture + Exercise + Lab | Electro- and Information Technology M.Sc. |