Curriculum

| Modules / Courses | Semest | er Credit U | nits ECTS- | Credits |
|--|--------------|--------------|--------------|---------------|
| CORE AREA MECHATRONICS | 1 | 2 | 3 | 4 |
| Higher Mathematics | 3 4 | 3 4 | | |
| Control Engineering | 3 4 | 2 3 | | |
| Sensors & Actuators | 4 5 | | | |
| Simulation & Optimization | 2 3 | | | |
| Robotics | | 4 6 | | |
| Computational Fluid Dynamics | | | 2 3 | |
| Process Management & Logistics | | | 2 2 | |
| PROJECTS & TECHNICAL CASE STUDIES | 1 | 2 | 3 | 4 |
| Project I | | 2 5 | | |
| Project II | | | 4 10 | |
| MAJOR ELECTRICAL ENGINEERING | 1 | 2 | 3 | 4 |
| Electrodynamics | 4 6 | | | |
| Measurement Methods | 3 4 | | | |
| Drive Systems | | 3 4 | | |
| Embedded Computing | | 3 4 | | |
| Simulation | | | 5 7 | |
| Industrial Electronics | | | 2 3 | |
| | | | | |
| MAJOR MECHANICAL ENGINEERING | 1 | 2 | 3 | 4 |
| Higher Mechanics | 4 6 | | | |
| Material Sciences | 3 4 | | | |
| Hydraulics & Pneumatics | | 3 4 | | |
| Machine Dynamics | | 3 4 | | |
| Simulation | | | 5 7 | |
| Handling Technology | | | 2 3 | |
| MANAGEMENT & KEY COMPETENCIES | 1 | 2 | 3 | 4 |
| Strategic Management & Marketing | 1 1 | 1 1 | | |
| Communication & Sales Techniques | 1 1 | | | |
| Innovation & Technology Management | | 1 1 | | |
| Business Planning | | | 1 1 | |
| Leadership Development | | | 1 1 | |
| Career Coaching | | | | 1 1 |
| MASTER THESIS / ACADEMIC WRITING / R&D | 1 | 2 | 3 | 4 |
| Current Research Areas | 1 2 | 1 2 | 1 2 | |
| Academic Writing | | | 1 1 | |
| Master Thesis & Seminar | | | | 2 29 |
| SEMESTER CREDIT UNITS ECTS-CREDITS | 22 30 | 20 30 | 19 30 | 3 30 |