|  |
| --- |
| **Mechatronics** |
| CODE | COURSE | ECTS |
| I SEMESTER (WINTER) |
| P 01 | Maths | 4 |
| P 02 | Physics | 4 |
| P 03 | Materials science | 4 |
| K 01 | Mechanics | 4 |
| K 03 | Introduction to programming in C++ language | 2 |
| K 05 | Engineering graphics and construction record | 3 |
| K 06 | Informatics | 4 |
| K 22 | TQM quality standards and systems | 2 |
| O 01 | English language | 2 |
| O 02 | Gym | 0 |
| II SEMESTER (SUMMER) |
| P 01 | Maths | 4 |
| K 01 | Mechanics | 4 |
| K 02 | Introduction to mechatronics | 3 |
| K 04 | Numerical Methods | 3 |
| K 07 | Electrical engineering and electronics | 5 |
| K 08 | Basics of machine and mechanism construction | 4 |
| K 20 | Production economics | 2 |
| O 01 | English language | 2 |
| O 02 | Gym | 0 |
| O 03 | Information technology | 2 |
| O 04 | Social Communication | 1 |
| III SEMESTR (WINTER) |
| P 03 | Materials science | 5 |
| P 04 | Basics of automation | 5 |
| K 02 | Introduction to mechatronics | 4 |
| K 09 | CAD / CAM systems | 3 |
| K 10 | Strength of materials | 4 |
| K 12 | Production engineering | 4 |
| K 13 | Electric drives | 3 |
| O 01 | English language | 2 |
| IV SEMESTER (SUMMER) |
| P 03 | Materials science | 1 |
| P 05 | Theory of control | 3 |
| P 06 | Basics of robotics | 2 |
| **Mechatronics** |
| CODE | COURSE | ECTS |
| K 11 | Fluid mechanics | 4 |
| K 15 | Theory of machines and languages | 3 |
| K 16 | Sensory and signal processing | 4 |
| O 01 | English language | 2 |
| V SEMESTR (WINTER) |
| P 07 | Processing technique | 2 |
| K 17 | Measuring systems | 4 |
| K 18 | Microprocessor systems and controllers | 4 |
| KW 01 | Computer aided vehicle design | 5 |
| KW 02 | Designing echatronics devices | 5 |
| KW 03 | Programming of numerical machines | 4 |
| KW 04 | Computer support in mechatronics | 4 |
| VI SEMESTR (SUMMER) |
| K 19 | Industrial robots | 2 |
| K 14 | Metrology and measurement techniques | 3 |
| K 20 | The economics of production | 2 |
| KW 05 | Basics of process engineering | 4 |
| KW 06 | Mechatronic autonomous vehicles | 3 |
| KW 07 | Robot programming | 4 |
| KW 08 | Electronic systems | 3 |
| VII SEMESTR (WINTER) |
| O 05 | Humanistic subject II: Philosophy / Ethics | 1 |
| O 06 | Law and protection of intellectual property | 1 |
| K 21 | Management engineering | 3 |
| K 22 | TQM quality standards and systems | 2 |
| K 23 | Software engineering | 3 |