

| Offered as: 1-professional | | | | | |
|---|-------------|------|-----------------------|----------------------|------------------------------|
| Module name | Course type | ECTS | Applied grading scale | Evaluation method | Assessment method |
| 1 SEMESTER | | | | | |
| Technological Project Work | Project | 5 | Passed/Not Passed | Internal examination | Oral exam based on a project |
| Monitoring & Programming | Project | 10 | 7-point grading scale | Internal examination | Oral exam based on a project |
| Imperative Programming | Course | 5 | Passed/Not Passed | Internal examination | Written and oral exam |
| Problem-based Learning in Science, Technology and Society | Course | 5 | Passed/Not Passed | Internal examination | Written exam |
| Calculus | Course | 5 | 7-point grading scale | Internal examination | Written or oral exam |
| 2 SEMESTER | | | | | |
| Analog Instrumentation | Project | 15 | 7-point grading scale | External examination | Oral exam based on a project |
| Linear Algebra | Course | 5 | 7-point grading scale | Internal examination | Written or oral exam |
| Basic Electrical Engineering | Course | 5 | 7-point grading scale | Internal examination | Written exam |
| Digital Design & Sensors | Course | 5 | Passed/Not Passed | Internal examination | Written or oral exam |
| 3 SEMESTER | | | | | |
| Micro Processor Based Systems | Project | 15 | 7-point grading scale | External examination | Oral exam based on a project |
| AC-Circuits & Electro Physics | Course | 5 | 7-point grading scale | Internal examination | Written or oral exam |
| Advanced Calculus | Course | 5 | 7-point grading scale | Internal examination | Written exam |
| Micro Processors & Programming | Course | 5 | Passed/Not Passed | Internal examination | Written or oral exam |
| 4 SEMESTER | | | | | |
| Control Engineering | Project | 15 | 7-point grading scale | Internal examination | Oral exam based on a project |
| Modelling and Simulation | Course | 5 | 7-point grading scale | Internal examination | Written or oral exam |
| Control Theory | Course | 5 | 7-point grading scale | Internal examination | Written or oral exam |
| Power Electronics and Networks | Course | 5 | 7-point grading scale | Internal examination | Written and oral exam |

| 5 SEMESTER | | | | | |
|--|---------|----|-----------------------|----------------------|----------------------|
| Elective Projects 5th Semester One project must be chosen | Project | 15 | | | |
| Numerical Methods | Course | 5 | 7-point grading scale | Internal examination | Oral exam |
| Signal Processing | Course | 5 | Passed/Not Passed | Internal examination | Written or oral exam |
| Real-time Embedded Systems | Course | 5 | Passed/Not Passed | Internal examination | Written or oral exam |
| 6 SEMESTER | | | | | |
| Elective Projects 6th Semester One project must be chosen | Project | 20 | | | |
| Introduction to Probability Theory and Statistics | Course | 5 | Passed/Not Passed | Internal examination | Written or oral exam |
| Matrix Computation and Convex Optimization | Course | 5 | Passed/Not Passed | Internal examination | Written or oral exam |

| Elective Projects 5th Semester One project must be chosen | | | | | |
|--|-------------|------|-----------------------|----------------------|------------------------------|
| Module name | Course type | ECTS | Applied grading scale | Evaluation Method | Assessment method |
| Automation | Project | 15 | 7-point grading scale | External examination | Oral exam based on a project |
| Digital Filtering | Project | 15 | 7-point grading scale | External examination | Oral exam based on a project |

| Elective Projects 6th Semester One project must be chosen | | | | | |
|--|-------------|------|-----------------------|----------------------|------------------------------|
| Module name | Course type | ECTS | Applied grading scale | Evaluation Method | Assessment method |
| BSc Project (Automation and Control) | Project | 20 | 7-point grading scale | External examination | Oral exam based on a project |
| BSc Project (Embedded Real-Time Signal Processing) | Project | 20 | 7-point grading scale | External examination | Oral exam based on a project |