PROGRAMME OF STUDY

**PROFESSIONAL STUDY OF TELEMATICS**

# LIST OF COURSES

## 1st year of study - Semester I (Winter Semester)

|  |  |  |
| --- | --- | --- |
| **Course unit no.** | **Title of the course unit** | **ECTS**  **credits** |
|
| 1 | Mathematics 1 | 5 |
| 2 | Fundamentals of Electrical Engineering 1 | 6 |
| 3 | Fundamentals of Procedural Programming | 6 |
| 4 | Fundamentals of Computer Use | 4 |
| 5 | Internet Communication | 5 |
| 6 | English Language 1 | 4 |
|  |  |  |
|  | **Totally per semester** | **30** |

## 1st year of study - Semester II (Summer Semester)

|  |  |  |
| --- | --- | --- |
| **Course unit no.** | **Title of the course unit** | **ECTS**  **credits** |
|
| 8 | Mathematics 2 | 5 |
| 9 | Fundamentals of Electrical Engineering 2 | 6 |
| 10 | Algorithms and Data Structures | 5 |
| 11 | Signals and Systems | 5 |
| 12 | Communication Technique | 5 |
| 13 | English Language 2 | 4 |
|  |  |  |
|  | **Totally per semester** | **30** |

2nd year of study – Semester III (Winter Semester)

|  |  |  |
| --- | --- | --- |
| **Course unit no.** | **Title of the course unit** | **ECTS**  **credits** |
|
| 25 | Internet Programming | 5 |
| 16 | Electronic Components and Devices\* | 5 |
| 17 | Fundamentals of Object Oriented Programming | 5 |
| 18 | Databases | 5 |
| 19 | Mobile Communication | 5 |
| 20 | *Developing Communication and Presentation Skills* | 5 |
| 21 | *Logistics in Transport* | 5 |
| 22 | *Telematics in Transport* | 5 |
|  |  |  |
|  | **Totally per semester** | **30** |

2nd year of study – Semester IV (Summer Semester)

|  |  |  |
| --- | --- | --- |
| **Course unit no.** | **Title of the course unit** | **ECTS**  **credits** |
|
| 23 | Digital Logic\* | 5 |
| 24 | Computer-Aided Design | 5 |
| 15 | Measurements in Electrical Engineering\* | 5 |
| 26 | Operating Systems | 5 |
| 27 | Telecommunication Networks and Services | 5 |
| 28 | *Business Organization* | 5 |
| 29 | *Multimedia Systems* | 5 |
| 30 | *Computer Graphics (s Informatike)* | 5 |
| 31 | *Database Systems (s Informatike)* | 5 |
|  |  |  |
|  | **Totally per semester** | **30** |

## 3rd year of study – Semester V (Winter Semester)

|  |  |  |
| --- | --- | --- |
| **Course unit no.** | **Title of the course unit** | **ECTS**  **credits** |
|
| 25 | Internet Programming\* | 5 |
| 26 | Systems and Process Control | 5 |
| 27 | Geographic Information Systems | 5 |
| 28 | Telematics in Transport\* | 6 |
| 40 | Project in Telematics | 4 |
| 29 | *Enterprise Information System* | 5 |
| 36 | *Automation of Facilities* | 5 |
| 21 | *Social Entrepreneurship* | 5 |
|  |  |  |
|  | **Totally per semester** | **30** |

## 3rd year of study – Semester VI (Summer Semester)

|  |  |  |
| --- | --- | --- |
| **Course unit no.** | **Title of the course unit** | **ECTS**  **credits** |
|
| 30 | Professional Internship | 13 |
| 31 | Bachelor Thesis | 17 |
|  |  |  |
|  | **Totally per semester** | **30** |

\* the course is not available in the academic year 2023/2024