**DESCRIPTION OF A STUDY COURSE – SYLLABUS**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Title of a course** | **Telematics in Transport** | | | | |
| **Study programme** | **Professional undergraduate study Telematics** | | | | |
| **Status of a course** | Obligatory | | | | |
| **Year of study** | 3 | **Semester** | W | **ECTS credits** | 6 |
| **Goals of a course** | | | | | |
| Introduce students to intelligent transport systems (ITS), basic principles of intelligent traffic management. Familiarize students with ITS systems that are implemented in vehicles, garage and parking facilities, traffic control, passenger / driver information. | | | | | |
| **Conditions for enrolling course** | | | | | |
| No conditions | | | | | |
| **Learning outcomes on a level of a study programme which includes course** | | | | | |
| Outcome 9: Explain the basic methods of automatic system control and apply them to telematics systems.  Outcome 10: Analyse and implement an information system in the field of telematics.  Outcome 15: Participate in teamwork and independently present professional content in written and spoken form in Croatian and English. | | | | | |
| **Expected learning outcomes on a level of a course** | | | | | |
| 1. Define intelligent transport systems and their area that telematics in transport deals with 2. Properly describe the taxonomy and standardization of ITS services, as well as ITS services within specific areas 3. Define ITS systems used in transport management and control 4. Describe ITS systems that are in service of security, informing passengers and drivers, location services and transport terminals 5. Research and present professional topics from the field covered by the course | | | | | |
| **Content of a course** | | | | | |
| Basic structure and function of ITS. Defining the transport resources management system in a company as well as the objectives of navigating vehicles in motion. Telematic system for logistics, surveillance and protection of a vehicle fleet. PROMETHES, GALILEO and EGNOS. Integration of Standardized Technologies GPS+GMS+Internet=GTTS. EDIFACT and integrated information system used to connect all the participants in public transport in a functional and dynamic way. Systematic analysis of narrative and financial effects of ITS in transport companies. | | | | | |