**DESCRIPTION OF A STUDY COURSE – SYLLABUS**

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| **Title of a course** | **Project in Telematics** | | | | |
| **Study programme** | **Professional undergraduate study Telematics** | | | | |
| **Status of a course** | Obligatory | | | | |
| **Year of study** | 3 | **Semester** | W | **ECTS credits** | 4 |
| **Goals of a course** | | | | | |
| Acquire competencies for project definition, drafting of project documentation, development of software, hardware or software-hardware system, and development of commercial presentation. | | | | | |
| **Conditions for enrolling course** | | | | | |
| Courses: Programming II, Databases, Mobile Communication, Project Management, Software Engineering, Operating System Concepts, TC Networks and Services, and Systems and Telematics Design | | | | | |
| **Learning outcomes on a level of a study programme which includes course** | | | | | |
| Outcome 4: Use computer principles and methods related to the architecture and organization of computers and computer networks.  Outcome 5: Use computer principles and methods related to programming languages, databases, and operating systems.  Outcome 6: Design and implement desktop, web and mobile computer applications and computer programs for microcomputers and microcontrollers, with or without a database.  Outcome 7: Describe the development and implementation of communications systems, switching systems, and local and broadband networks.  Outcome 8: Design and implement communications and computer networks, as well as network services.  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 11: Design and develop solutions for components, circuits and software for application in signal processing and telecommunications, with the preparation of supporting project documentation.  Outcome 12: Design and develop solutions for components, circuits and software for application in computer networks and information systems, with the preparation of supporting project documentation.  Outcome 13: Design and develop solutions for components, circuits and software for application in regulation systems and production processes, with the preparation of supporting project documentation.  Outcome 14: Apply methods of organizing business systems and marketing of products and services in the context of entrepreneurship in 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. Develop a project work plan that includes project activities, an estimate of the completion time, start and end dates, and the expected outcome of project activities 2. Create appropriate models for each stage of system development (analysis, design and implementation) 3. Create a software, hardware or hardware-software system from the field of telematics 4. Compile project documentation 5. Create a commercial presentation of project results | | | | | |
| **Content of a course** | | | | | |
| Problems in telematics structured in a task. Developing a project (HW, SW or an ideal solution). Individual and team work. Developing weekly reports and respecting the set deadlines. Adjusting solutions to demands Developing a detailed project documentation. Developing a project presentation. | | | | | |