**DESCRIPTION OF A STUDY COURSE – SYLLABUS**

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| **Title of a course** | **Bachelor Thesis** | | | | |
| **Study programme** | **Professional undergraduate study Telematics** | | | | |
| **Status of a course** | Obligatory | | | | |
| **Year of study** | 3 | **Semester** | S | **ECTS credits** | 17 |
| **Goals of a course** | | | | | |
| To enable students to develop deeper knowledge, understanding, abilities and attitudes in the context of the study program, and to develop the ability to integrate knowledge and present conclusions. | | | | | |
| **Conditions for enrolling course** | | | | | |
| All professional examinations passed and professional practice completed. Extended commitments to the library. Extended borrowed telematics lab equipment. | | | | | |
| **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. Define and solve a professional problem 2. Apply professional paper writing methodology 3. Apply the acquired knowledge and competences acquired through professional study 4. Apply acquired knowledge and specific competences from the associated course 5. Adhere to ethical principles and rules for citing literature 6. Present research results | | | | | |
| **Content of a course** | | | | | |
| Final thesis represents individual work and assessment of a candidate`s competence which needs to prove certain level of ability required for the independent solving of a particular professional assignment. The content of the final thesis is based upon the use of the specific competence derived from the content of the course. It can be set only as part of a particular professional course. The topic of the final thesis is chosen by a student in the VI term. It is set by the teacher mentor who will guide the student in the process of writing the final thesis. The length of the final thesis regarded as the candidate`s individual work is set up within the 225 hours workframe. | | | | | |