Course title: Master Thesis

Course code: 95232 ECTS credits: 12 Requirements:

Basic information

Level of studies: Master applied studies

Year of study: 2

Trimester: 3

Goal: The aim of the final paper is to show that the student has mastered research and analytical skills in solving complex problems of applying theoretical and practical knowledge in practice. The student should get acquainted with the rules, procedures and processes of independent research work and its written and oral presentation in the field of electrical and computer engineering. As an additional goal, the student should develop the ability of critical thinking, the ability to analyze and synthesize solutions, predict the consequences of the selected solution with a clear idea of both the positive and the negative aspects of such a solution. The student should apply his knowledge to solve a specific problem in a real company that operates in the field of information technology, under the supervision and monitoring of co-advisers from the companies in which the final work is done.

Outcome: Through the creation of the final paper, the student should master the theoretical framework of the given topic, the methodology of writing the final paper, the research and data processing methodology, get familiar with relevant national and foreign literature, and acquire the ability to theoretically and practically present his work. The student should be able to focus his knowledge on solving a specific challenge of a particular company in real working conditions.

Contents of the course

General contents

The final project is an independent research work of the student in which the student is introduced to the research methodology and solutions that have been implemented so far for the defined problem. The student should make a quality selection of methods that he will use in his work and present them to the mentor. After solving a specific solution and the consent granted by mentors and coadvisers from the company in which the final work is realized, the student should start writing the final project paper. The structure of the final paper is prescribed by the School and can be found on the School's website (http://ict.edu.rs/studiranje/zavrsni rad). Depending on the topic and the narrower area in which the work is performed, the paper should contain a description of the development of the proposed solution, a description of the applied methods and the achieved results. The final paper, in addition to the obtained results related to the topic, should also contain a presentation of the basic results from the area in which the work was realized. In this way, the student demonstrates knowledge of modern solutions to the problem posed by other authors. The written part of the paper should contain: title page, contents with chapter headings and page numbers, lists of used abbreviations, pictures, graphs and tables, introduction, analysis, results, discussion, conclusion and literature cited. **Textbooks and References** Number of active classes (weekly) Lectures: Practical classes: Other types of classes: 18 (student research work) Grading (maximum number of points: 100) **Pre-exam obligations: Points** Activities during lectures:

Activities on practical exercises:

Seminary work: 70

Final exam: Points
Written exam:
Oral exam: 30

Colloquium:

Lecturer		
Associate		