

Specification for the book of courses

Study program		Control Systems		
Module		Common		
Type and level of studies		Master studies		
The name of the course		Master Thesis		
Lecturer (for lectures)				
Lecturer/associate (for exercises)				
Lecturer/associate (for OFE)				
Number of ECTS	15	Course status (obligatory/elective)	Obligatory	
Prerequisites				
The Master's work is aimed at consolidating, validating and practical application of acquired knowledge during Master Academic Studies. The student is given the opportunity to demonstrate the ability to independently perform a project, which can be practical, research or theoretical-methodological character. The student also acquires experience in presenting his work through written form and oral presentation during the defense of work.				
Course objectives				
Ability to lead a standalone project, the ability to formulate and analyze problems, critically review possible solutions, review literature from the given area. Application of acquired engineering and design skills and problem solving skills, given the complexity, cost, reliability and efficiency of the solution. Ability to write work in a given form. Ability to clearly explain the project through an oral defense of work.				
Course outcomes				
Ability to lead a standalone project, the ability to formulate and analyze problems, critically review possible solutions, review literature from the given area. Application of acquired engineering and design skills and problem solving skills, given the complexity, cost, reliability and efficiency of the solution. Ability to write work in a given form. Ability to clearly explain the project through an oral defense of work.				
Course outline				
Master work is the independent research, practical or theoretical methodological work of the student in accordance with the level of studies, in which he becomes acquainted with a certain area through a literature review and adopts methodology of research, ie design, necessary for the production of work. By making the work, the student applies the practical and theoretical knowledge acquired during the studies. In written form, as a rule, the paper contains an introductory chapter, a definition of the problem, an overview of the areas and existing solutions, a proposal and a description of the solution, the conclusion and the literature. A public oral defense of work is organized before a commission of three members, one of which is a mentor of work. During the oral defense, the candidate explains the results of his work, and then answers the questions of the members of the commission, whereby the candidate demonstrates the ability to oral presentation of his project.				
Theoretical teaching				
Practical teaching (exercises, OFE, study and research)				
Textbooks/references				
1				
2				
3				
4				
5				
Number of classes of active education per week during semester/trimester/year				
Lectures	Exercises	OFE	Study and research work	Other classes
Teaching methods				
Grade (maximum number of points 100)				
Pre-exam duties	Points	Final exam	Points	
Activity during lectures		Written exam	70	
Exercises		Oral exam	30	
Colloquia				
Projects				