Specification for the book of courses

Study program		Control Systems	
Module		Common	
Type and level of studies		Master studies	
The name of the course		Study and Research Work	
Lecturer (for lectures)			
Lecturer/associate (for exercises)			
Lecturer/associate (for OFE)			
Number of ECTS	3	**Course status (obligatory/elective)**	Obligatory
Prerequisites			
Course objectives	Application of basic, theoretical-methodological, scientific-professional and expert-applied knowledge and methods to solve concrete problems. The student studies the problem, its structure and complexity, and on the basis of conducted analyzes, concludes the possible ways of solving it. By studying literature students are introduced to methods that are designed for solving similar tasks and engineering practice in their solving.		
Course outcomes	Training students to independently apply previously acquired knowledge from different areas they have studied to examine the structure of the given problem and its systemic analysis in order to draw conclusions about possible directions of its resolution. Through self-use of literature, students expand their knowledge by studying various methods and papers related to similar issues. In this way, students develop the ability to conduct analyzes and identify problems within the given issues. Practical application of acquired knowledge among students develops the ability to see the place and role of engineers in the selected area, the need for cooperation with other professions and teamwork.		
Course outline			
Theoretical teaching	It is formed individually in accordance with the needs of a concrete graduate-master work, its complexity and structure. According to his affinities and preferences, the student chooses the field of study work or the subject teacher from the list of teachers in the study program, which defines the specific task. The student studies professional literature, professional and scientific papers dealing with similar topics, performs analyzes in order to find a solution for a concrete task, or perform certain experiments in the laboratory. The study includes active monitoring of primary knowledge, organization and performance of experiments, numerical simulations and statistical data processing, preparation of seminar work from the narrow scientific-scientific field, which is the topic of independent research work.		
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**
			6	
Teaching methods				

Grade (maximum number of points 100)			
Pre-exam duties	**Points**	**Final exam**	**Points**
Activity during lectures		**Written exam**	
Exercises		**Oral exam**	50
Colloquia			
Projects	50		