

Specification for the book of courses

Study program		Electrical Power Engineering		
Module		Electrical Power Engineering		
Type and level of studies		Master studies		
The name of the course		Master Thesis – Study and Research Work		
Lecturer (for lectures)				
Lecturer/associate (for exercises)				
Lecturer/associate (for OFE)				
Number of ECTS	6	Course status (obligatory/elective)	Obligatory	
Prerequisites				
Course objectives				
Application of basic, theoretical-methodological, scientific-professional and expert-applied knowledge and methods for solving concrete problems. The student studies the problem, its structure and complexity, and on the basis of conducted analyses, concludes the possible ways of solving the problem. By studying literature, a student is acquainted with methods that are intended for solving similar tasks and engineering practice that is used to solve the problem under consideration.				
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 make conclusions about possible directions of problem solving. Through self-use of literature, students expand their knowledge by studying various methods that apply to similar problems. In this way, students develop the ability to conduct analyses and identify problems within the given issues. In this way, students develop the ability to conduct analyses and identify problems within the given issues. The practical application of acquired knowledge among students develops the ability to perceive the place and role of engineers in the selected area, as well as the need for cooperation with experts from other professions and for teamwork.				
Course outline				
Theoretical teaching				
It is formed individually in accordance with the needs of the concrete Master Thesis, its complexity and structure. According to his/her affinities and preferences, the student chooses the field of study-research work and the corresponding subject teacher from the list of teachers in the study program that defines the specific task. The student studies professional literature, professional and scientific papers dealing with similar topics, performs analyses in order to find a solution for a concrete task, or perform certain experiments in the laboratory. The study includes active study of primary knowledge, organization and performance of experiments, computer simulation and statistical data processing, and finally the preparation of seminar paper from the narrow study and scientific area, which is covered by the topic of study-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
			12	
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		