

Specification for the book of courses

Study program		Electrical Engineering and Computer Science		
Module		Electrical Power Engineering		
Type and level of studies		Undergraduate Academic Studies		
The name of the course		Power System Protection		
Lecturer (for lectures)		Janjić D. Aleksandar		
Lecturer/associate (for exercises)		Stojanović S. Miodrag		
Lecturer/associate (for OFE)		Stojanović S. Miodrag		
Number of ECTS	5	Course status (obligatory/elective)	Obligatory	
Prerequisites				
Course objectives	Introducing students to the relays and the protection principles of lines, synchronous generators, power transformers, buses, motor and capacitor. Students are trained to work on power system protection elements and the system as a whole.			
Course outcomes	Students gain the ability to work with protective relays and their application in power system			
Course outline				
Theoretical teaching	Protective relays of first, second and third generation. Protection of cables, generators, transformers, buses, motor and capacitor. Backup protection. Standard notation for the protection functions.			
Practical teaching (exercises, OFE, study and research)	Laboratory excercises.			
Textbooks/references				
1	Milenko Djuric, "Relay protection" (in serbian) Beopres, Belgrade, 2008.			
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
2	2	1	0	0
Teaching methods	Teaching and computational examples are performed by lecturing, on a board. Students are doing their works independently, with the assistant supervision. Consultations.			
Grade (maximum number of points 100)				
Pre-exam duties	Points	Final exam	Points	
Activity during lectures	5	Written exam	20	
Exercises	15	Oral exam	20	
Colloquia	40			
Projects				