

Specification for the book of courses

Study program		Electrical Engineering and Computer Science		
Module		Common		
Type and level of studies		Doctoral studies		
The name of the course		Radiation Physics		
Lecturer (for lectures)		Ristić S. Goran, Golubović M. Snežana		
Lecturer/associate (for exercises)				
Lecturer/associate (for OFE)				
Number of ECTS	10	Course status (obligatory/elective)	Elective	
Prerequisites				
Course objectives	Introducing students with ionizing and non-ionizing radiation, radiation detection, biological effects and radiation protection			
Course outcomes	Mastering theoretical knowledge related to the types of radiation, their influence on living and non-living matter, radiation detection, and protection against radiation.			
Course outline				
Theoretical teaching	Types and sources of ionizing radiation, ionizing radiation effects on living and non-living matter, dosimetric quantities and units. Radiation detection and protection. Characteristics and types of non-ionizing radiation and its influence on living organisms.			
Practical teaching (exercises, OFE, study and research)				
Textbooks/references				
1	G. Knoll, Radiation Detection and Measurement, John Wiley & Sons, 2000			
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
3	0	0	0	0
Teaching methods	Presentations on specific topics, seminars and projects			
Grade (maximum number of points 100)				
Pre-exam duties	Points	Final exam	Points	
Activity during lectures		Written exam		
Exercises		Oral exam	60	
Colloquia	40			
Projects				