

Specification for the book of courses

Study program		Electrical Engineering and Computer Science		
Module		Control Systems		
Type and level of studies		Undergraduate Academic Studies		
The name of the course		Telecommunications		
Lecturer (for lectures)		Nikolić B. Zorica, Perić H. Zoran, Milić N. Dejan		
Lecturer/associate (for exercises)		Cvetković M. Aleksandra, Eferica M. Predrag		
Lecturer/associate (for OFE)		Eferica M. Predrag		
Number of ECTS	6	Course status (obligatory/elective)	Elective	
Prerequisites				
Course objectives				
Acquisition of knowledge necessary for the understanding of the principles of telecommunications.				
Course outcomes				
Theoretical knowledge; Mastering the use of appropriate software simulation.				
Course outline				
Theoretical teaching		The transmission of information. Digitization of the signal. Fundamentals of modulation techniques. Transfer of spread spectrum signals. Multiplex signal transmission. Fundamentals of signal compression. Information recording. Fundamentals of coding techniques. Wireless communication systems. Satellite communications. Global Positioning System (GPS).		
Practical teaching (exercises, OFE, study and research)		Solving selected problems in computational exercises. Practical work in the laboratory.		
Textbooks/references				
1	I. Stojanovic: Fundamentals of telecommunications (in Serbian), Gradjevinska knjiga, Belgrade, 1977			
2	S. Haykin, M. Moher, Introduction to Digital and Analog Communications, John Wiley, 2007.			
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				
Oral teaching in the classroom, laboratory exercises.				
Grade (maximum number of points 100)				
Pre-exam duties		Points	Final exam	Points
Activity during lectures		10	Written exam	20
Exercises		10	Oral exam	20
Colloquia		20		
Projects		20		