Specification for the book of courses

Study program	Electrical Engineering and Computer Science		
Module	Communications and Information Technologies		
Type and level of studies	Undergraduate Academic Studies		
The name of the course	Fundamentals of Telecommunications		
Lecturer (for lectures)	Nikolić B. Zorica, Milošević D. Nenad		
Lecturer/associate (for exercises)	Anastasov A. Jelena, Cvetković M. Aleksandra		
Lecturer/associate (for OFE)	Cvetković M. Aleksandra, Anastasov A. Jelena		
Number of ECTS	6	**Course status (obligatory/elective)**	Obligatory
Prerequisites			
Course	Learning basic knowledge and skills in signal analysis and modulation schemes.		
Course outcomes	Theoretical knowledge.		
Course outline			
Theoretical teaching	Introduction. Analysis of periodic and aperiodic deterministic signals. Signal transmission through linear systems. Nonlinearity in signal transfer. Analogue amplitude and angular modulation. Pulse amplitude, width and position modulation. Basic operations in digitization of analogue signals.		
Practical teaching (exercises, OFE, study and research	Auditory exercises are performed in all thematic areas. Laboratory exercises are performed in the area of analogue amplitude modulation, angular modulation and digitization of analog signals.		
Textbooks/references			
1	Z. Nikolić: Fundamentals of telecommunications (in Serbian), Niš, Čuperak plavi, 1994.		
2	Z. Nikolic, N.Stojanovic, D.Pokrajac, V. Smiljanic, N.Milosevic: Laboratory exercises for Basics of telecommunications and Digital telecommunications (in Serbian), Faculty of Electronic Engineering Niš, 1999		
3	I. Stojanovic: Fundamentals of telecommunications (in Serbian), Gradjevinska knjiga, Belgrade, 1977		
4	Z. Stojanović, H. Beća, M. Dukić, Z.Petrović: Fundamentals of telecommunications - solved problems (in Serbian), Naučna knjiga, Belgrade,1990		
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	Giving lectures, auditory and 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	40		
Projects			