

## ECTS catalog with learning outcomes University of Montenegro

## Faculty of Electrical Engineering / ELECTRONICS, TELECOMMUNICATIONS AND COMPUTERS / CODING AND INFORMATION THEORY

Course:	: CODING AND INFORMATION THEORY							
Course ID	Course status	Semester	ECTS credits	<b>Lessons</b> (Lessons+Execises+Laboratory)				
1646	Mandatory	5	4.5	3+1+0				
Programs	ELECTRONICS, TELEC	COMMUNICATIONS AND	COMPUTERS	•				
Prerequisites								
Aims								
Learning outcomes	After passing this cource student will be familiarized with basic concepts of the information and coding theory, source modeling and channel modeling, entropy coders (Huffman code with variants), auxiliary codes in source coding. In addition students will be able to create and realize codes for channel coding like Hamming codes, BCH codes. Students will learn arithmetic coding theory.							
Lecturer / Teaching assistant								
Methodology								
Plan and program of work								
Preparing week	Preparation and regis	stration of the semester	-					
I week lectures								
I week exercises								
II week lectures								
II week exercises								
III week lectures								
III week exercises								
IV week lectures								
IV week exercises								
V week lectures								
V week exercises								
VI week lectures								
VI week exercises								
VII week lectures								
VII week exercises								
VIII week lectures								
VIII week exercises								
IX week lectures								
IX week exercises								
X week lectures								
X week exercises								
XI week lectures								
XI week exercises								
XII week lectures								
XII week exercises								
XIII week lectures								
XIII week exercises								
XIV week lectures								
XIV week exercises								



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XV week lec	tures							
XV week ex	ercises							
Student w	orkload							
Per week		Per semester						
4.5 credits x 40/30=6 hours and 0 minuts 3 sat(a) theoretical classes 0 sat(a) practical classes 1 excercises 2 hour(s) i 0 minuts of independent work, including consultations			Classes and final exam: 6 hour(s) i 0 minuts x 16 = 96 hour(s) i 0 minuts Necessary preparation before the beginning of the semester (administration, registration, certification): 6 hour(s) i 0 minuts x 2 = 12 hour(s) i 0 minuts Total workload for the subject: 4.5 x 30=135 hour(s) Additional work for exam preparation in the preparing exam period, including taking the remedial exam from 0 to 30 hours (remaining time from the first two items to the total load for the item) 27 hour(s) i 0 minuts Workload structure: 96 hour(s) i 0 minuts (cources), 12 hour(s) i 0 minuts (preparation), 27 hour(s) i 0 minuts (additional work)					
Student obligations			_					
Consultations								
Literature								
Examination methods								
Special remarks								
Comment								
Grade:	F	Е	D	С	В	А		
Number of points	less than 50 points	greater than or equal to 50 poin and less than 60 points		greater than or equal to 70 points and less than 80 points	greater than or equal to 80 points and less than 90 points	greater than or equal to 90 points		