

ECTS catalog with learning outcomes University of Montenegro

Faculty of Mechanical Engineering / MECHATRONICS / ELECTRICAL ENGINEERING

Course:	ELECTRICAL ENGINEERING							
Course ID	Course status	Semester	ECTS credits	Lessons (Lessons+Exer cises+Laboratory)				
917	Mandatory	1	5	3+1+1				
Programs	MECHATRONICS	•	•	•				
Prerequisites								
Aims								
Learning outcomes	After passing the exam in this subject, the student will be able to: 1. Define the concept of electrostatic field and the basic quantities that describe it. 2. Define the concept of a linear electrical circuit and the basic principles that describe it (Ohms law, Joules law, Kirchhoffs laws) and solve a direct current circuit. 3. Describe phenomena in the magnetic field and their applications. 4. Describe the behavior of resistors, inductors, and capacitors in an alternating current circuit. 5. Explain the operating principle and basic characteristics of transformers and asynchronous machines. 6. Explain the operation of basic electronic circuits. 7. Solve standardized problems and analyze the obtained solutions.							
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								



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Univerzitet Crne	Gore						
XIV week le	ctures						
XIV week ex	ercises						
XV week led	tures						
XV week ex	ercises						
Student w	orkload						
Per week		Per semester					
5 credits x 40/30=6 hours and 40 minuts 3 sat(a) theoretical classes 1 sat(a) practical classes 1 excercises 1 hour(s) i 40 minuts of independent work, including consultations			Classes and final exam: 6 hour(s) i 40 minuts x 16 =106 hour(s) i 40 minuts Necessary preparation before the beginning of the semester (administration, registration, certification): 6 hour(s) i 40 minuts x 2 =13 hour(s) i 20 minuts Total workload for the subject: 5 x 30=150 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) 30 hour(s) i 0 minuts Workload structure: 106 hour(s) i 40 minuts (cources), 13 hour(s) i 20 minuts (preparation), 30 hour(s) i 0 minuts (additional work)				
Student obligations							
Consultation	ons						
Literature							
Examination methods							
Special remarks							
Comment							
Grade:	F	Е	D	С	В	А	
Number of points	less than 50 points	1 5	greater than or equal to 60 points	greater than or equal to 70 points	greater than or equal to 80 points	greater than or equal to 90 points	

points

points

points

points