

University of Montenegro		
Faculty of Maritime Studies Kotor		
Study program: Marine Electrical Engineering		
Type and level of studies: Undergraduate studies		
Course unit: Fundamentals of marine electrical engineering and electronics II		
Teacher in charge: Tatjana Dlabac, Associate Professor		
Language of instruction: English		
ECTS: 5		
Course load: 2L+1E+1P		
Semester: Summer		
Course unit objective To familiarize students with basic laws and principles in electrical engineering and electronics necessary for more further study levels, considering STCW'10 convention (Table A-III/6) and IMO model course 7.08 (paragraphs 1.1.3.3, 1.1.3.4, 1.1.3.7, 1.1.4.1, 1.1.9.6, 2.1.6.6.1 and Ap. 6: 1.10)		
Learning outcomes of Course unit Upon successful completion of this subject the student will be able to: <ul style="list-style-type: none"> - Define and apply all laws on alternating (mono-phase and three-phase) electrical and electric circuits, - Define and apply the principles of operations of transistors (BJT, FET, MOSFET, IGBT) as well as their relevant circuits - Analyse and calculate complex circuits of alternating current, as well as electronic diodes circuits, transistors and amplifiers, - Plan and perform measurements on alternating current circuits and electronic diodes circuits, transistors and amplifiers, - Demonstrate familiarity with relevant precautions for working with alternating current. 		
Teaching methods: Lectures, exercises, laboratory exercises, homework assignments, tests, office hours, and individual work.		
Examination methods (maximum 100 points)		
METHODS OF KNOWLEDGE ASSESSMENT AND MARKING: Test I, up to 15 points; Test II, up to 20 points; Laboratory exercises up to 22 points; Homework and tests, up to 8 points; Final exam, up to 35 points; Positive mark requires not less than 50 points cumulatively.		
Grading system		
Grade	No. of points	Description
A	90-100	Excellent
B	80-89	Exceptionally good
C	70-79	Very good
D	60-69	Good
E	50-59	Passing
F	less than 50	Failing