NAME OF THE COURSE Practicum in electrotechnics									
Code	РМТ066		Year of study 1. year graduate stud						
Course teacher	Doc.dr. Pleština	sc. Vladimir a	Credits (ECTS)	3					
Associate teachers			Type of instruction (number of hours)	L	S	E 30	F		
Status of the course	Compu	lsory course	Percentage of application of e-learning	30%		50			
		COURSE	E DESCRIPTION	9					
Course objectives	Train the students to independently perform simple electrical measurements on electrical machines, devices and electrical installations in no voltage and operating status in order to apply in the classroom.								
Course enrolment requirements and entry competences required for the course	Attended and successfully passed: Basics of Electrical Engineering, Measurement Technology and Applied Electrical Engineering								
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	After this course, students will be able to: - Perform the measurement of current, voltage and power using a measuring instrument - Examine the unknown transformer - Examine the DC machine - Use the computer as a measuring instrument - Design and dimension electrical installation in the house								
Course content broken down in detail by weekly class schedule (syllabus)	- Design and dimension electrical installation in the house Week 1 Introductory lecture and introduction to exercises. Getting to know the rules of work in the laboratory and literature. Week 2 Exercise 1 The measurement of electrical resistance in no voltage area Week 3 Exercise 2 Measurement of voltage, current and power Week 4 Exercise 3 Testing unknown transformer Week 5 Exercise 4 Measuring power of transformer at idle Week 6 Exercise 5 Measuring power of transformer in short circuit Week 7 Exercise 6 Testing DC machine - parallel motor Week 8 Exercise 7 Testing DC machine - serial motor Week 9 Exercise 8						f work		

	Testing AC asynchronous three-phase machine							
	Week 10 Exercise 9 Using computer as measurement instrument							
	Week 11 Exercise 10 Using educatio							
	Week 12 Exercise 11 Electrical instal switch	ercise 11 ectrical installations in the house - socket, switch, and light, single pole and serial						
	Week 13 Exercise 12 Electrical installations in the house - Connecting the fuse box and control installations							
	Week 14 Exercise 13 Electrical installations - Connecting the electric meter							
	Week 15							
Format of instruction	Analysis of exercises and evaluation of student work.   □ lectures   □ seminars and workshops   □ exercises   □ on line in entirety   □ partial e-learning   □ field work				)			
Student responsibilities	Class attendance Independently preparation of exercise. Making reports Prepared exercise before performing Active participation in the teaching process							
Screening student	Class attendance		Research		Practical trainir	ng 2		
work (name the proportion of ECTS credits for each activity so that the total number of	Experimental work		Report	0,5	(Other)			
	Essay	0,5	Seminar essay		(Other)			
ECTS credits is equal to the ECTS	Tests		Oral exam		(Other)			
value of the course)	Written exam		Project		(Other)			
Grading and evaluating student work in class and at the final exam	Total scoring (100%): 1. An assessment of preparation for exercise: 45% 2. Evaluation of work and commitment to the exercise: 45% 3. The evaluation of report 10% Rating by percentage: 50% to 62% - sufficient (2) 63% to 75% - good (3)							
	76% to 88% - very good (4) 89% to 100% - excellent (5)							
Required literature (available in the library and via other			(i) Fitle		Number of copies in	Availability via other media		

media)		the library				
	Vježbe - Praktikum iz elektrotehnike – Vladimir					
	Pleština – Interna skripta i online materijali					
	Bego V.: Mjerenja u elektrotehnici, Tehnička knjiga Zagreb, 1990.					
Optional literature	1. Jurković B.: Elektromotorni pogoni, ETF Zagreb, 1983.					
(at the time of	2. Carr J.: Elements of Instrumentation and Measurement, Prentice Hall, 1986.					
submission of study	3. KONČAR : Tehnički priručnik, KONČAR-Zagreb, 1991.					
programme proposal)	4. Keler D., Maričević M., Srb V.: Elektromonterski priručnik, Tehnička knjiga, Zagreb, 1987.					
Quality assurance	Conversation with the students.					
methods that	Students opinions about the quality of teaching through anonymous polls.					
ensure the	The success of students at exam.					
acquisition of exit	Self-evaluation.					
competences						
Other (as the						
proposer wishes to						
add)						