NAME OF THE COURSE		Practicum of electrical engineering and electronics										
Code	PMT082		Year of s	tudy	1. year under graduate study							
Course teacher	Doc.dr.sc. Vladimir Pleština		Credits (E	ECTS)	2.0							
	Hrvoje Turić, prof. lecturer		Type of instruction (number of hours)		L	S	Е	F				
Associate teachers							30					
Status of the course	Compu	llsory course	Percenta application	entage of cation of e-learning								
	COURSE DESCRIPTION											
Course objectives	Train the students to independently perform simple electrical measurements on											
-	basic electronic elements, circuits and their application.											
Course enrolment requirements and entry competences required for the course	none											
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	After this course, students will be able to:											
	- Use the universal measuring instrument											
	- Measure the electrical resistance of the resistor											
	- Measure DC voltage and current using a universal measuring instrument											
	- Make measurements with an oscilloscope											
	- Set the voltage, frequency and signal values on the signal generator											
	- Successfully test the semiconductor diode											
	- Apply a transistor switch											
	- Connect the integrated circuit correctly											
	- Determine the static characteristics of a bipolar transistor											
Course content broken down in detail by weekly class schedule (syllabus)	<ol> <li>Introduction of the laboratory. Getting to know the equipment. Introduction to the course and general concepts. Presentation of elements and measuring instruments that students will encounter in the exercises (2 hours)</li> <li>Introduction to basic electronic elements and universal measuring instrument (2h)</li> <li>Measurement of electrical resistance (2h)</li> <li>Voltage and current measurement (2h)</li> <li>Measuring DC power by UI method (2h)</li> <li>UI Resistance Measurement (2h)</li> <li>Oscilloscope and signal generator (2h)</li> <li>Current-voltage characteristic of semiconductor diode (2h)</li> <li>Half wave correction (2h)</li> <li>Transistor switch (2h)</li> <li>Integrated Circuits Connection (2h)</li> <li>RC circuit (2h)</li> <li>Capture of static characteristics of bipolar transistor (2h)</li> <li>Astabil (2h)</li> </ol>											
	15. Exercise Colloquia and Compensation (2h)  □ lectures											
Format of instruction	<ul> <li>□ seminars and workshops</li> <li>□ exercises</li> <li>□ on line in entirety</li> <li>□ partial e-learning</li> <li>□ field work</li> </ul>		☐ independent ☐ multimedia ☐ laboratory ☐ work with m ☐ (othe		nentor							
Student	Class attendance											
responsibilities	Independently preparation of exercise.  Making reports											

	Prepared exerc	ise before	e performing							
	Prepared exercise before performing  Active participation in the teaching process									
Screening student work (name the	Class attendance	1	Research		Practical traini	ing				
proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course)	Experimental work		Report		(Other)					
	Essay		(Other)	(Other)						
	Tests	1 Oral exam		(Other)						
	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: 25%  2. Evaluation of work and commitment to the exercise: 45%  3. The evaluation of report 20%  4. Exercise colloquia: 50%  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 media)		1	Number of copies in the library	Availability via other media						
	Praktikum iz osnova elektronike – Vladimir Pleština									
	Tomislav Brodić, Diskretna analogna elektronika  V. Papić, Predavanja iz osnova elektronike,									
	Sveučilišna skr	-								
					+					
Optional literature (at the time of submission of study programme proposal)	B. Jajac, Teorijske osnove elektrotehnike: Struktura materije i mjerne jedinice, elektrostatika, Graphis, Zagreb , 2001 B. Juzbašić, Elektronički elementi, Školska knjiga, Zagreb, 1984. P. Biljanović, Elektronički sklopovi, Školska knjiga, Zagreb, 1989. N. Storey, Electronics: A Systems Approach, Prentice Hall, 1998. P. Slapničar, Gotovac, Elektronički sklopovi, Sveučilište u Splitu, 2000.									
Quality assurance methods that ensure the acquisition of exit competences	Conversation with the students. Students opinions about the quality of teaching through anonymous polls. The success of students at exam. Self-evaluation.									
Other (as the proposer wishes to add)										