NAME OF THE COURSE	Laboratory in Modern Physics									
Code	PMP20F	Yea	ar of stud	У		GU-1 GU-2				
Course teacher	Ante Bilušić, PhD, Professor	Cre	dits (EC	TS)		3,0				
Associate teachers	Lucija Krce		Type of instruction (number of hours)		L	S	E 40	F		
Status of the course	Elective course		Percentage of application of e-learning							
	COUR		SCRIPTI		Ŭ					
Course objectives	Understanding the laws of modern physics through the independent performance of selected experiments. Understanding and applying statistical analysis of experimental results. Computer application in statistical processing of results.									
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)	by applying knowledge from modern physics to understand the theoretical background of selected experiments using the understanding of modern physics to describe the parts and principles of operation of selected experiments by applying knowledge in the field of measurement in physics and by applying computers, statistically analyze the results obtained by measurements, by using knowledge in the field of measurement in physics and based on the results of statistical analysis to identify and understand measurement errors									
Course content broken down in detail by weekly class schedule (syllabus)	Specific charge of an electron Hall effect Planck's law of radiation Measurement of the Planck constant Temperature dependence of resistance of conductors and semiconductors Determination of silver nanoparticle size by UV-VIS spectroscopy									
Format of instruction	 lectures seminars and wo exercises on line in entirety partial e-learning field work 	orkshop /	kshops □ independ kshops □ multimed ⊠ laborator □ work with □ homewo □				dent assignments lia ry n mentor rk assignments			
Student responsibilities	Writing reports on t	he con	ducted ex	xperim	nents. A	ttenda	ance.			
Screening student work (name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course)	Name Class attendance	Ects		Name Research			Name erimenta		Ects	
	Oral exam	0.5			1.5		ework gnments			
	Seminar essay		Essay			4001	<u>,</u>			
	Tests		Practical training							
	Written exam		Project							
Grading and evaluating student work in class and at the final exam	During each term th verified, while on ea that will be evaluate	ach per	formed e	experir	nent stu	idents	have to	o write a	report	

	experiments. The final score is based on the knowledge shown during classes and exam, and on reports on conducted experiments.						
Required literature (available in the library and via other media)	Title	Number of copies in the library	Availability via other media				
	Internal script.	0	yes				
Optional literature (at the time of submission of study programme proposal)	Halliday, Resnick, Walker: Fundamentals of Physics, John Wiley & Sons, 2003. Scientific journals in physics education						
Quality assurance methods that ensure the acquisition of exit competences	Statistics of students' results and students' evaluation via anonymous questionnaires at the end of the course. The survey is conducted according to the rules of the University of Split.						
Other (as the proposer wishes to add)							