NAME OF THE COURSE	General-Physics Laboratory III					
Code	PMP013	Year of study	3rd			
Course teacher	Ante Bilušić	Credits (ECTS)	2.5			
Associate teachers		Type of instruction (number of hours)	L	S	E	F
					40	
Status of the course	Obligatory course	Percentage of application of e-learning				

COURSE DESCRIPTION	
Course objectives	Understanding the wave laws and optics through independent performance of selected experiments. Understanding and application of the detailed statistical analysis of experimental results. Use of computers in the statistical analysis.
Course enrolment requirements and entry competences required for the course	Passed exams in General Physics III, General-Physics Laboratory I and General-Physics Laboratory II.
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	By the end of the course, students are expected: • by application of knowledge in fields of oscillation, waves, geometric and wave optics **to understand** the theoretical background of selected experiments in wave laws and optics, • by application of knowledge in fields of oscillation, waves, geometric and wave optics **to describe** the parts and principles of selected experiments in wave laws and optics, • by application of knowledge in measurements in physics **to perform** the statistical analysis of the results obtained from measurements using the computer, • by both application of knowledge in measurements in physics and the results of statistical analysis, **to identify** and understand the errors of measurement.
Course content broken down in detail by weekly class schedule (syllabus)	Laboratory includes the following experiments: • Standing waves • Refraction of light on the spherical surface - lenses • Newton's rings • Dependence of the refractive index on the frequency of light • Resolving power of the optical grating • Fresnel's equations of the light refraction
Format of instruction	☐ lectures ☐ seminars and workshops ☐ exercises ☐ *on line* in entirety ☐ partial e-learning ☐ field work ☐ independent assignments ☐ multimedia ☒ laboratory ☐ work with mentor ☐ (other)
Student responsibilities	

Screening student work *(name the proportion of ECTS credits for each activity so that the total number of*						
	Class attendance	1.0	Research		Practical training	
	Experimental work		Report	1.0	(Other)	
	Essay		Seminar essay		(Other)	

ECTS credits is equal to the ECTS value of the course)	Tests		Oral exam	0.5	(Other)	
	Written exam		Project		(Other)	

Grading and evaluating student work in class and at the final exam	During each term the student's knowledge of the experiment is verbally verified, while on each performed experiment students have to write a report that will be evaluated. The exam consists in the performance of one of the 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**
	Ante Bilušić, Larisa Zoranić *Praktikum iz opće fizike III*, skript, in Croatian	0	yes (free access)

Optional literature (at the time of submission of study programme proposal)	• Halliday, Resnick, Walker: *Fundamentals of Physics*, John Wiley & Sons, 2003.
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)	