

NAME OF THE COURSE		Laboratory in General Physics I						
Code	PMP011	Year of study			2nd			
Course teacher	Ante Bilušić	Credits (ECTS)			3.0			
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 laws of mechanics through independent performance of selected experiments. Understanding and application of the detailed statistical analysis of experimental results.							
Course enrolment requirements and entry competences required for the course	Passed exam in General Physics I.							
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<p>By the end of the course, students are expected:</p> <ul style="list-style-type: none"> <li>• by application of knowledge in mechanics of point mass, mechanics of rigid body and fluids mechanics <b>to understand</b> the theoretical background of selected experiments in the field of mechanics,</li> <li>• by application of knowledge in mechanics of point mass, mechanics of rigid body and fluids mechanics <b>to describe</b> the parts and principles of selected experiments in the field of mechanics,</li> <li>• by application of knowledge in measurements in physics <b>to perform</b> the statistical analysis of the results obtained from measurements,</li> <li>• by both application of knowledge in measurements in physics and the results of statistical analysis, <b>to identify</b> and understand the errors of measurement.</li> </ul>							
Course content broken down in detail by weekly class schedule (syllabus)	<p>Laboratory includes the following experiments:</p> <ul style="list-style-type: none"> <li>• Length and mass measurements</li> <li>• Measurement of the fluid density</li> <li>• Energy conservation law</li> <li>• Moment of inertia</li> <li>• Pendulum with the variable constant of gravity</li> <li>• Physical pendulum</li> <li>• Elasticity</li> <li>• Torsion pendulum</li> <li>• Surface tension</li> </ul>							
Format of instruction	<input type="checkbox"/> lectures <input type="checkbox"/> seminars and workshops <input type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work			<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input checked="" type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)				
Student responsibilities								
Screening student work (name the proportion of ECTS credits for each)	Class attendance	1.0	Research		Practical training			
	Experimental work		Report	1.5	(Other)			

activity so that the total number of ECTS credits is equal to the ECTS value of the course)	Essay		Seminar essay		(Other)	
	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)	<b>Title</b>			<b>Number of copies in the library</b>	<b>Availability via other media</b>	
	Ante Bilušić, <i>Praktikum iz opće fizike I</i> , script, in Croatian			0	yes (free access)	
Optional literature (at the time of submission of study programme proposal)	<ul style="list-style-type: none"> <li>• Antonije Dulčić: <i>Mehanika</i>, Prirodoslovno-matematički fakultet u Zagrebu, in Croatian</li> <li>• Halliday, Resnick, Walker: <i>Fundamentals of Physics</i>, John Wiley &amp; Sons, 2003.</li> </ul>					
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)						