

Program	Level of studies		First cycle	
	Program name		Physics	
Course name	PHYSICAL LABORATORY V			
Course ID	Semester	Course status	ECTS	L+E
PHY5311	IV	MANDATORY	2	0+2
Lecturer	Doc. Dr. Maja Đekić			
Aims and intended learning outcomes	<p>Course objective is to familiarize students through practical laboratory work with phenomena and physical laws at the atomic level.</p> <p>Learning outcomes:</p> <ol style="list-style-type: none"> <li>1. Independently handles laboratory equipment and understands instructions from the manual</li> <li>2. Independently assesses correctness of obtained results</li> <li>3. Independently processes data</li> </ol>			
Course content				
1. Stefan-Boltzmann's law, 2. Determination of the electron charge to mass ratio, 3. Millikan's experiment, 4. Electron diffraction, 5. Microwave interference, 6. Photoelectric effect, 7. Atomic spectra, 8. Radioactivity				
Student workload (hours)		Grading		
Lectures and Exercises	30	Assessment method	Points	
Exam preparation	10	Laboratory reports	40	
Other	10	Test	24	
Consultation	50	Final exam	36	
Total		Total	100	
Literature				
<ol style="list-style-type: none"> <li>1. M. Đekić i A. Salčinović Fetić: PRAKTIKUM IZ ATOMSKE FIZIKE, Prirodno-matematički fakultet, 2017,</li> <li>2. url: <a href="http://www.pmf.unsa.ba/fizika/images/udzbenici/praktikum_iz_atomske_fizike.pdf">http://www.pmf.unsa.ba/fizika/images/udzbenici/praktikum_iz_atomske_fizike.pdf</a></li> </ol>				
Remarks				