

Study program	Level of studies		First cycle	
	Study program name		Physics Education	
Course name	PHYSICS LABORATORY II			
Course ID	Semester	Course status	ECTS credits	L+E
PHY3311	III	MANDATORY	3	0+2
Lecturer				
Aims and intended learning outcomes	<p>The aim of the course is to familiarize students with practical laboratory exercises as well as with phenomena and physical laws in the field of thermodynamics.</p> <p>Students are expected to:</p> <ol style="list-style-type: none"> 1. gain self-confidence in handling laboratory equipment 2. learn the basic methods of physical quantities measurements in the field of thermodynamics 3. collect acceptable data by measuring, analyze them, interpret the obtained results and draw the appropriate conclusions 			
Course content				
<p>Surface tension Thermal expansion of solids Gas processes Basic calorimetric measurements Specific heat capacity of metals and gases Phase transitions Thermal conductivity Determination of the convective heat transfer coefficient</p>				
Student workload (hours)			Grading	
Lectures and Exercises	30	Assessment method	Points	
Exam preparation	30	Laboratory reports	40	
Assignments	10	Test	20	
Other	5	Final practical exam	40	
Total	75			
		Total	100	
Literature				
<ol style="list-style-type: none"> 1. Uputstva za vježbe „Fizikalni praktikum II“ (interna skripta), Prirodno-matematički fakultet, Sarajevo. 2. Hadžiselimović, E. (2005), <i>Osnove termodinamike i molekularne fizike</i>, bosniaARS, Tuzla. 3. Tanović, L., Tanović, N. (1988), <i>Fizika: Osnove termodinamike i molekularno-kinetičke teorije gasova</i>, Svjetlost, Sarajevo. 4. Dimić, G. L. (1990), <i>Metrologija u fizici D viši kurs</i>, DP Građevinska knjiga, Beograd. 				
Remarks				