Program	Level of studies		First cycle	
	Program name		Educational Physics	
Course name	ADVANCED PHYSICS LABORATORY II			
Course ID	Semester	Course status	ECTS	L+E
PCM8311	**VIII**	**MANDATORY**	**3**	**0+3**
Lecturer	**Doc. dr. Maja Đekić**			
Aims and intended learning outcomes	Aim of the course is the further expansion of knowledge and concepts in modern physics and qualification of students for independent organization and execution of laboratory exercises under supervision. After successful completion of the course, students will be able to demonstrate and explain certain modern physics experiments, use a computer to interpret results, draw graphs and perform a statistical analysis of data, organize a laboratory exercise and adopt rules of safe laboratory practices and procedures.			

Course content

Atomic spectra. Magnetic susceptibility of solids and liquids. Hall effect in metals. Measurement of dielectric permittivity of ice. Photoelectric effect.

Student workload (hours)		Grading	
Lectures and Exercises	45	Assessment method	Points
Exam preparation	15	Homework	30
Assignments	10	Midterm exam	30
Consultation	5	Final exam	40
Total	75	Total	100

Literature

1. Uputstva za vježbe iz Višeg fizikalnog praktikuma II, nerecenzirana interna skripta
2. Ch. Kittel: Uvod u fiziku čvrstog stanja, Savremena administracija, Beograd, 1970.
3. H. Ibach, H. Lüth: Solid-State Physics An introduction to Principle of Material Science, Springer, 2009

Remarks