Study program	Level of the study program		First cycle	
	Name of the study program		Educational Physics	
Course name	LABORATORY IN PHYSICS EDUCATION IV			
Course ID	Semester	Course status	ECTS credits	L+E
PED8421	VIII	MANDATORY	4	0+3
Lecturer		Prof. dr. Vane	s Mešić	
Aims and intended learning outcomes	 The aim of this course is to develop students' knowledge, skills and habits that are important for effective implementation of the experimental method in physics classrooms with particular focus on use of modern technologies and experimental projects. Intended learning outcomes: Systematically prepare, conduct, evaluate and present physics experiments. Perform digital video analysis of selected physics phenomena and demonstrate the ability to use microcomputer-based laboratories in the physics classroom. Demonstrate virtual physics experiments and solve virtual laboratory problems. 			
Course content				
Optical grating. Single slit diffraction. Polarization. Light scattering. Light Virtual physics experi Digital video analysis Microcomputer-based Role of experimental	ments. of selected physic I laboratories.	cs phenomena.		
Role of experimental projects in physics teaching. Student workload (hours) Grading				
Lectures and Exercise	. ,	Assessment r		Points
Exam preparation	25			15
Assignments	25			10
Other	5	Experiment		25
Total	100			50
		Total		100
		Literature		
fakultet. 2. Physics textbo 3. Sokoloff, D. R <i>Module 1: Med</i>	oks for primary and , Thornton, R. K., <i>&</i> <i>hanics</i> . John Wiley	<i>ike nastave fizike IV</i> (interna secondary school. & Laws, P. W. (2011). <i>RealT</i>	ime Physics Active lear	ning laboratories,