

Study program	Type of study (cycle)		Second cycle	
	Study program name		Physics Education	
Name of the course	ELECTRONICS I			
Course ID	Semester	Course status	ECTS credits	L+E
PAP7511	I	MANDATORY	5	2+2
Lecturer				
Aims and intended learning outcomes	The goal and task of the course is to gradually introduce students with electronic elements and circles using lectures, laboratory exercises and practical work to prepare them for future work as a professor and / or researcher			
Course content				
1. Linear electric circuit - overview 2. Ideal amplifiers 3. Semiconductor diodes 4. Bipolar transistor 5. Field effect transistors 6. Multiple amplifiers, energy electronics 7. Electronic circuits with feedback				
Student workload (hours)		Grading		
Lectures and Exercises	60	Assessment method	Points	
Exam preparation	50	Partial exams	40	
Assignments	10	Practical work	15	
Other	5	Student activity	5	
Total	125	Final exam	40	
		Total	100	
Literature				
1. „Osnovi elektronike“, Aljo Mujčić, Edin Mujčić, Nermin Suljnović, Tuzla 2015; 2. D. Milatović: Osnove elektronike, Svjetlost, Sarajevo 1995				
Remarks				