Program	Level of studies		First cycle	First cycle	
	Program name		Educational Physics		
Course name	LINEAR ALGEBRA FOR PHYSICISTS				
Course ID	Semester	Course status	ECTS credits	L+E	
POT1711	I	MANDATORY	7	3+3	
Lecturer	Prof. dr. Nacima Memić				
Aims and intended	The aim of the course is that students learn mathematical operations with vectors and matrices, and with linear operators in general. It is expected that the student is able to perform operations with vectors and matrices, and to describe their various applications (solving linear equations transformations, etc.); The student is able to describe properties of Euclidean space, curves and surfaces of the second order.				
learning outcomes					
		Course content			
		mixed product and app			
dimensional space. Systems of linear e Matrices, matrix oper matrices and quadrat Vector space. The G Eigenvalues. Second-order curves	equations, linear rations, matrix equ tic forms. Determir ram - Schmidt pro and surfaces.	independence, criteria f uations. Elementary matri nants. ocess. Linear operators, li	ces, the inverse of a	matrix, symmetric	
dimensional space. Systems of linear e Matrices, matrix oper matrices and quadrat Vector space. The G Eigenvalues. Second-order curves	equations, linear rations, matrix equ tic forms. Determir ram - Schmidt pro	uations. Elementary matri nants.	ces, the inverse of a	matrix, symmetric	
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