Program	Level of studies		First cycle	
	Program name		Educational Physi	Educational Physics
Course name	QUANTUM MECHANICS II			
Course ID	Semester	Course status	ECTS credits	L+E
PTH6711	VI	MANDATORY	6	3+2
Lecturer	Prof. dr. Dejan Milošević			
Aims and intended learning outcomes	The objective of the course is to introduce students to the applications of quantum mechanics, as well as to enable them to independently solve the tasks from this fundamental field of theoretical physics. Formalism developed within the scope of the course Quantum Mechanics I will be applied to various problems of atomic and molecular physics, scattering theory, etc. The learning outcome is mastering theoretical knowledge from the application of quantum mechanics and the ability to independently solve different problems from the application of quantum mechanics.			
		Course content		
method (Hartree-Foo approximation. Scatt Method of partial wav	ck method). Tho ering theory: Sca es. Inelastic scatte	ethods of calculation of a mas-Fermi method. The ttering cross section. Trans ering.	theory of molecule sition amplitude. Borr	es in adiabatic
Student workload (hours)			Grading	
Lectures and Exercise				Points
Exam preparation	75			50
Assignments		Final ex	xam	50
Other				
Total	150)		
		Total		100
		Literature		
Mandatory: 1. D. Milošević, I		I, 2015 (available at e-learning	g)	
Recommended: 1. L. I. Šif, Kvant 2. Supek, Teorijs	ska fizika i struktura	Karadžić, Beograd, 1968. materije, II dio, Školska knjiga An introduction, Springer, Be Remarks		