Study program  Level of studies						Third cycle						
Study		Title of the study pr	ograr	n Scie	matics education							
			_	COU	JRSE							
Cour	se title		Selected C	hapters in Atomic a	and N	Iolecular 1	Physics					
Course ID Semester			Semester	Course status			ECTS	ECTS credits		Contact hours		
	PTH590		I	Elec		_		45				
Lecturers Lecturer in charge				Prof. dr. Aner Čerkić								
Lecturers		Other l	Other lecturers									
Course aims Introducing the students to selected problems in atomic and molecular physics.												
				CON	TENT							
#	Teaching units							Contact hours				
#								L	E/S		С	
	Historical introduction. Most important accomplishments in the atomic,							30	15			
				in the 20th century.								
			Atoms in ext									
	Interaction of atoms with light. Light interacting with atoms in external fields.											
	Atomic collisions. Cold atoms.											
			ndensation. M									
	From nan	osecond	s to femtosec	onds in science. Atto	scien	ce.						
	Examples	of expe	rimental met	hods. Experiments a	nd fur	damentals	of quantum					
	physics.											
	Different		ns and applica	tions								
	D D 1		ERATURE	ASSESSMENT OF LEARNING Assessment method Points Threshold								
1.	D. Bud.		F. Kimball cs: an ex	l, D. P. DeMille, ploration through	1			Points		Inres		
				Oxford University	1. 2.	First part			30		16	
	Press, New York, 2004.  2. More things in heaven and earth: A celebration of physics at the millenium, ed. B. Benderson, Atomic molecular and optical physics, group of authors, pp. 377498., Springer, New York,						artial exam	-			17	
2.						Final exa	m		40	-	22	
						Т-	<b>+</b> ₀1		100		55	
						То	tai		100		33	
	1999.											