



UNIVERSITY OF SARAJEVO – FACULTY OF SCIENCE Department of Chemistry

Course ID: HDOA27	Cour COM	rse name: DEVELOPMENT AND APPLICATION OF METAL			
Cycle: THIRD	Year	: FIRST Semester: II	ECTS cre	dits: 15	
Course status: ELECTIVE		Total course h Lectures: Laboratory:	Total course hours: Lectures: Laboratory:		
Teaching participants:		Teachers with expertise in the field of Inorganic Chemistry			
Prerequisite for enrollment:		-			
Course aims:		Developing the ability to design new complex compounds, depending on the possible application			
Thematic course units:		 Development of metal complexes as potential drugs: the relationship between synthesis-structure-properties. Tumor inhibiting metal complexes. Platinum and nonplatinum complexes. The mechanism of action of tumor inhibitory complex. Ruthenium complexes. Development and design of new compounds. The interactions of metal ions and metal complexes with biomolecules. Research methods and interaction. Metal complexes in catalysis. Metal complexes as mediators 			
Learning outcomes	:				
Teaching methodol	logy:				
		Grad Criteria	ding criteria Maximal score	Required score	
Assessment metho		<u>1. l'ests</u>	<u>2×15</u>	16,5	
and grading system	1+:	2. Seminars	1 × 30 40	16,5	
		Total	100	55	
		Scores and grading			

¹The grading structure for each subject is determined by the Council of the organizational unit before the beginning of the academic year in which the subject is taught as per Article 64, paragraph 6 of the Law on Higher Education of Sarajevo Canton

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	Score	Grade (BiH)	Grade (ECTS)		
	< 55	5			
	55-64	6	E		
	65-74	7	D		
	75-84	8	С		
	85-94	9	В		
	95–100	10	А		
	Mandatory literature:				
	1. Original scientific papers				
	2. Metal Complexes in Cancer Chemotherapy, edited by				
Literature ² :	B. Keppler, VCH, 1993				
	3. C. Jones, J. Thornback, Medicinal Applications in				
	Coordination Chemistry RSC, 2007				
	4. Metal Complexes: DNA interactions, edited by Nick				
	Hadjiliadis, Einar Sletten, Wiley, 2009				

 $^{^{2}}$ The Senate of the higher education institution, as an institution, or the Council of the organizational unit of the higher education institution, as a public institution, determines by a special decision, which is published on its website before the beginning of the academic year obligatory, mandatory and recommended textbooks and manuals, as well as other recommended literature based on which exams are prepared and taken as per Article 56, paragraph 3 of the Law on Higher Education of the Sarajevo Canton