



Form SP2

Page **1** of **2**

UNIVERSITY OF SARAJEVO – FACULTY OF SCIENCE Department of Chemistry

Course ID: HOA105	Course name: STRUCTURAL INORGANIC CHEMISTRY					
Cycle: SECOND	Year	: FIRST	Semester: I	ECTS credits:6		
Course status: ELECTIVE			Total course hours: 60 Lectures: 45 Laboratory: 15			
Teaching participants:		Teachers and associates with expertise in the field of Inorganic Chemistry				
Prerequisite for enrollment:		-				
Course aims:		Acquiring knowledge of crystal structures and symmetries. Comparative study of structures of metals and alloys, ionic and covalent crystals. Correlation of properties with the structure of inorganic compounds.				
Thematic course units:		 Description of crystal structure. Symmetry. Structure of metals and alloys. Ionic crystal structure. Structure of covalent crystals. Methods of structural analysis and structural support. Correlation of structure and properties. Significance of structure in the application of inorganic compounds. 				
Learning outcomes	:	 deter the poly the po	mine the symmetry ele oint group in the crystal and mole ance in the dense packaging al structures late structure with phy ance late structure with elec etic properties of the s	he crystal and molecular structure of a he dense packaging and selected reference cructures e structure with physical properties of the se e structure with electrical, thermal and c properties of the substance explain methods of structural analysis and		

UNIVERSITY OF SARAJEVO – FACULTY OF SCIENCE Department of Chemistry

Page 2 of2

Teaching methodology:	Auditory lectures, laboratory exercises					
	Grading criteria					
		Criteria	Maximal score	Required score		
	1.	Class attendance	5	3		
	2.	Class activities	5	2		
	3.	Midterms	40	22		
	4.	Final exam	40	22		
	Total 100 55					
Assessment methods	Scores and grading					
and grading system ¹ :		Score	Grade (BiH)	Grade (ECTS)		
		< 55	5	F, FX		
		55-64	6	Е		
		65-74	7	D		
		75-84	8	С		
		85-94	9	В		
		95-100	10	A		
	Mandatory literature:					
	1. Atkins, P., & Overton, T. (2010). Shriver and Atkins'					
	inorganic chemistry. Oxford University Press, USA.					
	2. Grdenić D. (2005). Molekule i kristali. Školska knjiga					
	Zagreb.					
	3. Wells, A. F. (2012). Structural inorganic chemistry.					
	Oxford university press.					
Literature ² :	Supplementary literature:					
Ziterature i	1. Müller, U. (1993). Inorganic structural chemistry (No.					
	04; QD151. 2, M8.). New York.					
	2. Huheey, J. E., Keiter, E. A., Keiter, R. L., & Medhi, O. K.					
	(2006). Inorganic chemistry: principles of structure					
	and reactivity. Pearson Education India.					
	3. Scott, R. A., & Lukehart, C. M. (Eds.). (2013).					
	al methods to inorganic and					
	bioinorganic chemistry. John Wiley & Sons.					
	<u></u>	bioinorganic chemis	lorganic chemistry. John Wiley & Sons.			

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

²The 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