



Form SP2

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UNIVERSITY OF SARAJEVO – FACULTY OF SCIENCE Department of Chemistry

Course ID: HOA231	Course name: INORGANIC CHEMISTRY I				
Cycle: FIRST	Year:	SECOND	Semester: III	ECTS credits:7	
Course status: MAN		IDATORY	Total course hours: 105 Lectures: 45 Laboratory: 60		
Teaching participants:		Teachers and associates with expertise in the field of Inorganic Chemistry			
Prerequisite for enrollment:		-			
Course aims:		Study of the chemistry of s- and p-elements through comparability of general, physical and chemical properties of elements and the most important classes of their compounds. Change in bond type, structural elements, acid-base and oxido-reduction properties.			
Thematic course units:		1. General properties of elements and their change through groups and periods 2. Basic classes of inorganic compounds 3. Hydrogen 4. s-elements 5. Noble gases 6. p-elements 7. Elements of the boron group 8. Elements of the carbon group 9. Elements of the nitrogen group 10. Elements of the fluorine group 11. Elements of the fluorine group			
Learning outcomes:		 exp use pred and und sub terr und che 	course the student will be able to: plain the periodic properties of atoms e vertical, horizontal and diagonal similarity indicators to edict the physical and chemical properties of elements d their compounds within the s- and p-blocks derstand and predict the structures of elementary estances and molecular and crystalline binary and mary compounds of s- and p-elements derstand, explain and compare general, physical and emical properties and methods of obtaining elemental estances, binary and ternary compounds of s- and p-block		

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	 elements with emphasis on oxides (chalcogenides), halides, hydroxides, oxosalts and oxoacids predict and compare acid-base properties of s- and p-block elemental substances and compounds by groups and periods predict and compare redox properties of s- and p-block elemental substances and compounds by groups and periods know, explain, predict and distinguish the chemical reactivity of the elements of s- and p-block and their ionic and molecular compounds within groups and periods, and on this basis, to predict the products of chemical reactions 				
Teaching methodology:	Auditory lectures, laboratory exercises				
Assessment methods and grading system ¹ :	Criteria 1. Class attendance 2. Class activities 3. Midterms 4. Final exam* Total	Grading criteria Maximal score 5 5 2 × 25 40 100 es and grading Grade (BiH) 5 6 7 8 9 10 completes midterms	Required score 3 2 2×14 22 55 Grade (ECTS) F, FX E D C B A		
Literature ² :	 Mandatory literature: Kahrović, E. (2005). Anorganska hemija. Bemust. Atkins, P., & Overton, T. (2010). Shriver and Atkins' inorganic chemistry. Oxford University Press, USA. Kahrović, E., Ljubijankić, N. (2011). Praktikum anorganske hemije, Prirodno-matematički fakultet. Supplementary literature: 				

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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

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- 1. Miessler, G. L. And Tarr, D. A. (1999). Inorganic Chemistry, Prentice-Hall.
- 2. Greenwood, N. N., & Earnshaw, A. (2012). Chemistry of the Elements. Elsevier.