



Form SP2

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## UNIVERSITY OF SARAJEVO – FACULTY OF SCIENCE Department of Chemistry

Course ID: HOA116	Course name: GENERAL CHEMISTRY I					
Cycle: FIRST	Year: FIRST		Semester: I	ECTS credits: 5		
Course status: MANDATO		Total course hours: 45 Lectures: 45				
Teaching participants:		Teachers and associates with expertise in the field to which the subject belongs				
Prerequisite for enrollment:		-				
Course aims:		Acquiring the necessary knowledge to understand the facts about substances, their structure, subatomic particles and understanding the basic chemical principles, theories and laws for a more detailed study of certain disciplines in all fields of chemistry.				
Thematic course units:		* *				
Learning outcomes	**Rowledge: 1. Explain the ions and their atomic mass at 2. Explain the electronic affir 3. Explain the compounds, ga 4. Define solut composition of 5. Explain the		periodicity of atomic sizes, ionization energy and nity. structural characteristics of elements and their ases, liquids and solids. tions and solubility and analyze the quantitative			

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	and heterogeneous systems.  Skills:  1. Explain the connection between the structure of atoms and molecules, the periodic table of elements and physico-chemical laws.  2. Critically consider the physico-chemical differences between gases,						
	solutions and solids.  3. Define the basic concepts of chemical equilibrium in different						
	systems.						
	Competencies:						
	1. Based on the acquired knowledge, predict the properties and						
	<ul><li>applications of different substances.</li><li>2. Independently apply knowledge in all other fields of chemistry in the</li></ul>						
	continuation of Study.						
Teaching methodology:	Method of oral presentation, method of conversation						
	Grading criteria						
		Criteria	Maximal score	Required score			
	1.	Class attendance	5	3			
	2.	Class activities	15	8			
	3.	Test Final exam	40 40	22 22			
		Total	100	55			
Assessment methods	Scores and grading						
and grading system1:			Grade	Grade			
and grading system.		Score	(B&H)	(ECTS)			
		< 55	5	F, FX			
	l	55-64	6	E			
		65-74	7	<u>D</u>			
		75-84	<u>8</u> 9	C			
		85-94 95-100	10	<u>В</u> А			
	Man		10	А			
	Mandatory literature: 1. Filipović I, Lipanović S. Opća i anorganska kemija I dio. Zagreb:						
	Školska knjiga; 1995.						
Y : 4 4 2	Supplementary literature:						
Literature <sup>2</sup> :	1. Chang R. Chemistry. 6th ed. Boston: WCB/McGraw-Hill; 1998.						
	2. Tomljanović M. Opća kemija. Zenica: Hijatus; 2004.						
		Kahrović E. Anorganska hemija. Sarajevo: Bemust, Univerzitetska					
	knjiga; 2005.						
	4. Sikirica M. Stehiometrija. Zagreb: Školska knjiga; 2001.						

<sup>&</sup>lt;sup>1</sup> The 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

<sup>&</sup>lt;sup>2</sup> 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