

УНИВЕРЗИТЕТ У БАЊОЈ ЛУЦИ UNIVERSITY OF BANJA LUKA

ПРИРОДНО-МАТЕМАТИЧКИ ФАКУЛТЕТ



FACULTY OF NATURAL SCIENCES AND MATHEMATICS

CHEMISTRY DEPARTMENT

FIRST CYCLE OF STUDY Chemistry/Chemistry Education

Course name	Inorganic Chemistry					
Course code	Course status	Semeste	er	Hours of instruction	ECTS	
1C16HOS392	required	II		3+3	8	
Teacher(s)	acher(s) Asst. Prof. Zvjezdana Sandić, PhD					
Prerequisite course(s)			Entry requrements			
General Chemistry Passed exam						
Course goals						
The aim of this course is to understand the periodic changes of the chemical and physical properties of the elements with						
respect to the structure and position of elements in the Periodic Table.						
Learning outcomes						
The students are able to explain the general chemical and physical properties and reactivity of elements belonging to the main						
groups of the Periodic Table; to describe the basic laboratory and industrial methods for obtaining selected chemical elements						
and their application; to list the basic classes of compounds, explain their structure and chemical properties and write the names						
of inorganic compounds in accordance to the nomenclature.						
Course content						
From alchemy to the Periodic Table of the Elements. Formation of the chemical elements.						
Periodic changes in the properties of chemical elements. s - p - d - f elements.						
Basic classes of chemical compounds - oxides, hydroxides, salts.						
Hydrogen. Hydrides. Group 18 elements (noble gases).						
Group 1 element (alkali metals). Group 2 elements (alkaline earth metals).						
Group 17 elements (halogen elements). Group 16 elements (halogenic elements).						
Group 15 elements (nitrogen group). Group 14 elements (carbon group).						
Group 13 elements (boron group).						
General properties of transition elements.						
Teaching methods						
Lectures and experimental exercises						
Books and other learning materials						
D. Poleti: General Chemistry, Part II, Chemistry of Elements, TMF, Belgrade, 2000.						
I. Filipović, S. Lipanović: General and Inorganic Chemistry , Parts I and II, Školska knjiga, Zagreb 1995.						
Z. Sandić: lecture resentations for Inorganic Chemistry available on Google Classroom.						
Exercises: Internal laboratory practicum.						
Course activities and grading method						
The activity and the colloquium refer to the exercises and are a condition for taking the final exam. Two tests per semester -						
based on the lecture materials. The results are included in the final grade only if they exceed 50% of the predicted points for a						
given form of test during the semester. Activity 5 Tests 30						
Activity	5					
Exit colloquium	5	Final ex	am		60	
Additional course notes /						
Name of the teacher who prepared this form Zvjezdana Sandić						
Name of the teacher who prepared this formZvjezdana Sandić						

