

Course Unit Descriptor Study Programme: Chemistry, Biochemistry			
Course Unit Title: Inorganic Chemistry I			
Course Unit Code: Z-101			
Name of Lecturer(s): Full professor Ljiljana Vojinović Ješić, Associate professor Mirjana Radanović			
Type and Level of Studies: Bachelor Academic Studies			
Course Status (compulsory/elective): Compulsory			
Semester (winter/summer): Summer			
Language of instruction: English			
Mode of course unit delivery (face-to-face/distance learning): Face-to-face			
Number of ECTS Allocated: 8			
Prerequisites: None			
Learning objectives Acquisition of basic knowledge about synthesis, characteristics and application of elements and their inorganic compounds in contemporary environment.			
Learning outcomes <ul style="list-style-type: none"> • demonstrate basic knowledge about prevalence and physico-chemical properties of selected chemical elements and their compounds; • demonstrate basic knowledge about laboratory and industrial processes for obtaining selected chemical elements and their compounds; • demonstrate basic knowledge about the application of selected chemical elements and their compounds, to perform experiments independently and formulate conclusions about chemical behaviour of elements and their inorganic compounds based on experimental results. 			
Syllabus <i>Theoretical instruction</i> Introduction to the chemistry of the elements. Chemical and physico-chemical properties of metals, non-metals and semimetals. Basic classes of inorganic compounds and nomenclature. Types of reactions in inorganic chemistry. Occurrence, extraction, physical and chemical properties and application of s-, p-, d- and f-elements and their compounds. <i>Practical instruction</i> Reactions of selected s-, p- and d-elements and their compounds.			
Required Reading: 1. Weekly teaching load			
Weekly Contact Hours: 105		Lectures: 45	Practical work: 45+15
Teaching Methods: Lectures and laboratory work			
Knowledge Assessment (maximum of 100 points): 100			
Pre-exam obligations	points	Final exam	points
Activity	5	Test I and II	30
Lab exercises	5	Written exam	60