Description of an Individual Course Unit				
Study program			All	
Module				
Type and level of studies			PhD studies	
Course title			Structure and reactivity of inorganic compounds	
Professor (for lectures)			Nevenka Rajić, Dejan Poleti, Jelena Rogan	
Professor/assistant (for practice)			Nevenka Rajie, Dejan i Oleti, Jelena Rogan	
Professor/assistant (for LAB) Number of ECTS			Type of the course (mandatory/elective)	alaatiya
Prerequisit	15	3	Type of the course (mandatory/elective)	elective
Objective of the course	The objectives of this course are to give the student a broad understanding of theoretical inorganic chemistry; understanding how structure and bonding influence the physical properties and; reactivity of inorganic molecules; understanding of all major types of inorganic mechanism; knowledge of the increasingly important role played by transition metals in modern chemistry as reagents and catalysts as well as their corresponding proposed reaction mechanisms.			
Learning outcomes of the course	The student will have a broad knowledge of: the principles of atomic and molecular structures; chemistry of main group and transition group elements; the role of important chemical elements and their compounds in chemical technology. The student can utilize principles of kinetics, thermodynamics, and equilibria in the prediction of inorganic reaction and will be able to evaluate critically articles published within the domain of the learning objectives listed for this course.;			
Course Conten		ing arrieres passi	man are domain of the feating objectives fisted	101 11115 0041501, ,
Theoretical contents	Atomic and molecular structure; Molecular shape and symmetry; Structure of solids; d-Metal complexes - structures and symmetries; Electronic spectra of complexes and magnetism; Coordination chemistry; Reactions, kinetics and mechanism; Inorganic chains, rings, cages and clusters; Organometallic chemistry - bonding and structure; catalysis			
Practical part (practices, LAB, study research work)	Synthesis and characterization of two inorganic compounds performing a literature review.			
Literature	ž i i č			
1 2	J.E. Huheey, E.A. Keiter and R.L. Keiter, Inorganic Chemistry: Principles of Structure and Reactivity, HarperCollins, Forth Ed., N. York, 1993			
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Lessons per we		Ir an		lou uu
Lectures	Practices	LAB	Study research work	Other activities
Teaching Methods	Lectures, laboratory works, seminar, tests			
Grading methods (max. number of points is 100)				
-		points	Final examination	points
activity during lectures		10	written exam	
practical assesments		40	oral exam	40
mid-term exams				
seminars 10				