

Level: PhD				
Course title: Selected Chapters of General and Inorganic Chemistry (DSH-601)				
Status: elective				
ECTS: 15				
Requirements: None				
Learning objectives Thorough introduction to the selected chapters of general and inorganic chemistry.				
Learning outcomes Acquiring the necessary expertise needed for further study and resolution of the complex chemical problems.				
Syllabus <i>Theoretical instruction</i> The structure of matter. The structure of the atom. Periodic system. Chemical bond. Stereochemistry of inorganic compounds. Crystallochemistry of the inorganic compounds. Chemical reactions. Chemical kinetics. The reaction mechanisms. Chemical equilibrium. Chemistry of acids and bases. Chemistry of aqueous and non-aqueous solutions. Chemistry of transition elements. Complex compounds. Inorganic rings, cages and clusters. The basics of Bioinorganic Chemistry. Biometals and bioligands.				
Weekly teaching load				Other:
Lectures: 5	Exercises:	Other forms of teaching:	Student research: 5	