

Course title: Coordination chemistry					
	Specialty	Semester	Number of ECTS	Number of hours in the class	Form
	Foreign students	summer	3	30	Lecture – 30 h
Name of lecturer: dr hab. Dagmara Jacewicz					
Objective of the course (expected learning outcomes and competences to be acquired)					
<ul style="list-style-type: none"> familiarizing students with all issues listed in the seminar program content, 					
Prerequisites:					
none					
Teaching methods:					
<ul style="list-style-type: none"> lecture with presentation 					
Course contents					
Basic concepts of coordination chemistry, coordination numbers and structures of transition metal complexes, multi-core complexes, isomerism and nomenclature of complex compounds, colors of d-block metal compounds, TWW, kinetic and thermodynamic properties, stable and unstable complexes, stability complex compounds, TPK, splitting of the energy level of d orbitals and electron configurations of metal ions in the octahedral and tetrahedron field of ligands, crystalline field stabilization energy (ESPK), the effect of chelate rings on the possibility of deformation, electron absorption spectra of complex compounds, splitting of atomic terms in the octahedral and tetrahedral fields					
Recommended reading:					
A. Bielański – Podstawy chemii nieorganicznej, tom 1 i 2. M. Cieślak-Golonka, J. Starosta, M. Wasielewski – Wstęp do chemii koordynacyjnej					
Assessment methods:					
<ul style="list-style-type: none"> oral presentation 					
Language of instruction: English					
Contact:					