



## **Coordination chemistry with selected topics in bioinorganic chemistry**

Lecturer: Dołęga Anna (WCh PG); 15 h

### Course contents:

#### Lecture 1:

- The brief outline of the history of coordination chemistry
- The basic concepts of coordination chemistry
- Coordination compound
- Central atom
- Ligands,
- Coordination bond
- Coordination number and coordination sphere.
- The contemporary nomenclature of coordination compounds

#### Lecture 2:

- Chemical bonds and intermolecular interactions

#### Lecture 3

- Coordinate bonds crystal field
- Ligand field theories

#### Lecture 4:

- Synthesis of coordination compounds
- Complex ion stability
- Kinetics of reactions of coordination compounds

#### Lecture 5

- Selected problems in bioinorganic chemistry
