

Title of the course: Inorganic Chemistry - Part 2.

Kredits: 3

Coordinator/Department: Dr. János Rohonczy / Department of Inorganic Chemistry

Terms for joining: successful accomplishment of Inorganic Chemistry Part 1 course.

Topics covered by the course:

Inorganic Chemistry - Part 2. gives an overview about the elements of the d- and f-field of the periodic system. This course implies the systematic treatment of the main topics of the classical inorganic chemistry i.e. terrastical abundance, distribution, production, physical and chemical properties, chemical reactivity of the elements, their hydrides, halides, oxides, hydroxides, oxoacide salts, complexes and organometallic derivatives. Teaching of theoretical fundamentals of practical inorganic chemistry (synthetic work, handling of dangerous chemicals, safety in laboratory). Short introduction into the modern organometallic chemistry (types of organometallic compounds, synthetic methods). Summary of the new trends and results in inorganic chemistry on the base of the modern structural and stereo chemistry.

Literature*:

Compulsory:

Suggested:

N.N. Greenwood, A. Earnshaw: Chemistry of the Elements, Pergamon Press, 1984.
(ISBN-10: 0080220576, ISBN-13: 978-0080220574)

* 3-5 books, lecture notes all.