**General and Inorganic Chemistry I - Sylabus**

Structure of substances, electron structure of atom

Periodic system

Chemical bonding and chemical reactions

Elementary non-metals – chemical bonding, properties, reactivity

Polyatomic molecules of non-metals – structure, chemical bonding, properties

Gaseous and liquid molecular compounds of non-metals

Monoatomic ions in aqueous solutions and their salts

Oxyanions in aqueous solutions and crystals

Coordination compounds

Structure, chemical bonding and properties of metals

Metals and intermetallic phases – reactivity, extraction

Simple solid oxides and inorganic polymers

Binary non-oxidic solid compounds of metals and non-metals