

General Chemistry

Unit Title	General Chemistry		
Level of Study	1-3 (1-Beginners, 2 – Medium, 3 - Advanced)		
Credit Value	100	ECTS Value	42
Home Department	Inorganic Chemistry, Chemical Technology and Technosphere Safty		
Home Faculty	Chemistry		
Unit Co-ordinator	Dr. Irina L. Rakitianskaia		
Key Words	Atomic Structure, Chemical Bonding, Periodicity, Heat Effect, Rate of Reaction, Chemical Equilibria.		
Brief Summary	General Chemistry is strictly necessary unit for all the students who study Chemistry, Geology and Biology. It combines the basic principles of all the most importants parts of Chemistry: stoichiometry, atomic structure and chemical bonding and their influents on the chemical properties of elements and their compounds, baxis knowleges about physical effects of chemical reactions, theory of complex compounds.		
Indicative Content	<p>Students are expexted to pass through the following topics:</p> <ul style="list-style-type: none"> Acting Masses Law and Stochiometry Atomic Structure Periodicity and Peroidic Table Chemical Bonding Complex Compounds Heat Effects in Chemical lReactions Rate of Reactions Chemical Equilibria <p>Theoretical principles will be delivered during the lectures. Theoretical problems which require the calculations, comparison of data, making the conclusions will be considered during the practical seminars. Most of the theoretical topics are supported by laboratory works. In laboratory students work by teams of 2 or 3 students.</p>		