

Name of subject: Chemistry	NEPTUN-code: RMXCA1BBNE	Number of hours: <i>lec+gs+lab</i> 2+0+2	Credit: 5 Requirements: examination
Course coordinator: Tamás Csiszér PhD	Title: assistant lecturer	Prerequisite: -	
Subject content:			
<p>The subject summarizes general and inorganic chemistry for engineers working in practice. The subject underlines the connection between material structure and material properties. This subject gives a base of other disciplines, like physics and other material knowledge etc..</p>			
Competences to be mastered:			
<ul style="list-style-type: none"> - Knowledge of general and specific mathematical, natural and social scientific principles, rules, relations, and procedures as required to pursue activities. Comprehensive knowledge of the basic features and interrelations of environmental elements and system. Knowledge of the main methods to examine the quantity and quality features, their typical measuring instruments and limitations thereof, as well as methods for the evaluation of data measured. - The subject performs basic tests of the quantity and quality characteristics and systems by state-of-the-art measuring instruments; to draw up and implement measurement plans; and to evaluate data. - Chemistry solves tasks of water, soil, air, radiation, and noise protection, as well as of waste treatment and processing at proposal level; to participate in preparing decisions; to perform authority audits; and to take part in the operation of these technologies. - The subject is able to reveal deficiencies in the technologies applied and process risks and to initiate mitigation measures after getting familiarized with the technology concerned. 			
Literature			
1. N. Akhmetov: General and Inorganic Chemistry, MIR Publishers, Moscow, 1983			
2. A. Pahari, B. Chauhan: Engineering Chemistry, Infinity Science Press LLC, Hingham, Massachusetts, New Delhi, India, 2007			