

**Information sheet for the course  
Selected Chapters from Applied Chemistry**

<b>University:</b> <i>Alexander Dubček University of Trenčín</i>					
<b>Faculty:</b> <i>Faculty of Industrial Technologies in Púchov</i>					
<b>Course unit code:</b> <i>M-PV-11</i>			<b>Course unit title:</b> <i>Selected Chapters from Applied Chemistry</i>		
<b>Type of course unit:</b> <i>optional</i>					
<b>Planned types, learning activities and teaching methods:</b>					
<b>Number of credits:</b> <i>4</i>					
<b>Recommended semester:</b> <i>three semester of study: obligation graduate in half of standard length of study</i>					
<b>Degree of study:</b> <i>the 3<sup>rd</sup> degree of study (PhD. degree)</i>					
<b>Course prerequisites:</b> <i>graduation of all compulsory courses (also course of application inorganic chemistry), discharge of all obligations.</i>					
<b>Assesment methods:</b> <i>prosperous graduation of object of state examination</i>					
<b>Learning outcomes of the course unit:</b> <i>student prosperous graduates the object of dissertate examination.</i>					
<b>Course contents:</b> <i>electronic structure of materials, chemical bounds in materials, crystal structure of materials, electric, magnetic, optic and thermal properties of materials, principles of course of chemical reactions in materials, properties of monometallic element and their application in materials, chemistry and technology of production of iron, alloys, binary compounds and their application in materials, oxide and non-oxide ceramic, multi-element compound and their application in materials, silicate materials (alkali silicates, zeolites, asbestos fibers), construction materials: cement, silicates.</i>					
<b>Recommended of required reading:</b>					
1. E. Jóna, D. Ondrušová, M. Pajtášová: <i>Priemyselná anorganická chémia I. FPT Púchov TnU AD, 2007</i>					
2. G. Ondrejovič, R. Boča, E. Jóna, H. Langfellderová, D. Valigura: <i>Anorganická chémia 2. STU Bratislava 1995</i>					
3. M. Koman, M. Jamnický: <i>Anorganické materiály. STU Bratislava 2007</i>					
<b>Language:</b> <i>Slovak</i>					
<b>Remarks:</b>					
<b>Evaluation history:</b>					
A	B	C	D	E	FX
0.0	0.0	0.0	0.0	0.0	0.0
<b>Lecturers:</b> <i>prof. Ing. Eugen Jóna, DrSc.</i>					
<b>Last modification:</b> <i>30.04.2014</i>					
<b>Supervisor:</b> <i>prof. Ing. Darina Ondrušová, PhD.</i>					