

## Information sheet for the course 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-5</i>			<b>Course unit title:</b> <i>Applied Chemistry</i>		
<b>Type of course unit:</b> <i>optional</i>					
<b>Planned types, learning activities and teaching methods:</b> <i>Lecture: 2hours weekly/26 hours per semester of study; face to face</i> <i>Seminar: 2hours weekly/26 hours per semester of study; face to face</i> <i>Laboratory tutorial: 0</i>					
<b>Number of credits</b> 8					
<b>Recommended semester:</b> <i>2<sup>nd</sup> semester in the 1<sup>st</sup> year full-time</i> <i>2<sup>nd</sup> semester in the 1<sup>st</sup> year part-time</i>					
<b>Degree of study:</b> <i>the 3<sup>rd</sup> degree of study (PhD. degree)</i>					
<b>Course prerequisites:</b> <i>none</i>					
<b>Assessment methods:</b> <i>Every student prepare project directed on the certain area from the applited inorganic chemistry nobrich dehvivers vor the supervision and students. Also graduates written part.</i> <i>% prosperons</i>					
<b>Learning outcomes of the course unit:</b> <i>Students control preparation, structure and properties of industrial important inorganic substances and their aplication in materials student pruves forecast with help of composition of materials resulting properties of materials</i>					
<b>Course contents:</b> <i>Elektronic structure of materials, chemical bonds materials, crystal structure of materials, electric, magnetic, optic and thermal properties of materials, principles of course of chemical reactions in materials, properties of nonmetallic elements and their applications in materials, chemistry and technology of production of iron,, alloys, binary componds and their application in materials, oxidic and nonoxidic ceramics, morelements componnds and their aplications in materials, silicate materials alkali silicates, zeolites, asbest fibres, construction materials, cement, silicates</i>					
<b>Recommended of required reading:</b> <i>1. E. Jóna, D. Ondrušová, M. Pajtášová: Priemyselná anorganická chémia I. FPT Púchov TnU AD, 2007</i> <i>2. G. Ondrejovič, R. Boča, E. Jóna, H. Langfellderová, D. Valigura: Anorganická chémia 2. STU Bratislava 1995</i> <i>3. M. Koman, M. Jamnický: 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
<b>Lecturers:</b> <i>prof. Ing. Eugen Jóna, DrSc.</i>					
<b>Last modification:</b> <i>30.04.2014</i>					

**Supervisor:** *prof. Ing. Darina Ondrušová, PhD.*