

**Information sheet for the course**  
**Technology of Production and Elaboration of Inorganic Materials**

<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>MT-P-24</i>			<b>Course unit title:</b> <i>Technology of Production and Elaboration of Inorganic Materials</i>		
<b>Type of course unit:</b> <i>compulsory</i>					
<b>Planned types, learning activities and teaching methods:</b> <i>Lecture: 2 hours weekly/26 hours per semester of study; face to face</i> <i>Seminar: 0</i> <i>Laboratory tutorial: 2 hours weekly/26 hours per semester of study;</i>					
<b>Number of credits:</b> <i>5</i>					
<b>Recommended semester:</b> <i>4<sup>th</sup> semester in the 2<sup>nd</sup> year full-time</i> <i>6<sup>th</sup> semester in the 3<sup>rd</sup> year part-time</i>					
<b>Degree of study:</b> <i>the 1<sup>st</sup> degree of study (Bachelor's degree)</i>					
<b>Course prerequisites:</b> <i>none</i>					
<b>Assessment methods:</b> <i>Evaluation of course includes partial evaluation: basic technologic operations, explanation of production of gases, inorganic acids, silicate materials, production of metals</i>					
<b>Learning outcomes of the course unit:</b> <i>Student profits the survey on the production and elaboration of different inorganic materials</i>					
<b>Course contents:</b> <ol style="list-style-type: none"> <li><i>1. Basic technological operations – mechanic operations</i></li> <li><i>2. Basic technological operations – diffusion, termic operation</i></li> <li><i>3. Production of gases (oxygen, noble gases)</i></li> <li><i>4. Production of inorganic acids (sulfuric acid, nitrous and halogen acids)</i></li> <li><i>5. Production of orthophosphoric acid and fertilizers</i></li> <li><i>6. Production of sodium hydroxide, chlorine and sodium carbonate</i></li> <li><i>7. Silicate industry: production of cement, plaster of Paris, rough ceramics</i></li> <li><i>8. Silicate industry: soft ceramics, glasses</i></li> <li><i>9. Production of metals – production of iron and steel</i></li> <li><i>10. Production of metals: production of aluminium, copper, gold</i></li> </ol>					
<b>Recommended of required reading:</b> <ol style="list-style-type: none"> <li><i>1. Linkešová M., Pavceleková I.: Vybrané kapitoly z chemickej a potravinárskej technológie, PFTU, 2007</i></li> <li><i>2. Fellner P. a kol.: Anorganická technológia, STU Bratislava, 2005</i></li> </ol>					
<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., prof. Ing. Darina Ondrušová, PhD.</i>					
<b>Last modification:</b> <i>31.03.2014</i>					
<b>Supervisor:</b> <i>doc. Ing. Marta Kianicová, PhD.</i>					