

## Information sheet for the course Selected Chapters from Technology of Special 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>MI-I-PV-38</i>			<b>Course unit title:</b> <i>Selected Chapters from Technology of Special Inorganic Materials</i>		
<b>Type of course unit:</b> <i>optional</i>					
<b>Planned types, learning activities and teaching methods:</b> <i>Course of state examination; face to face</i>					
<b>Number of credits:</b> <i>2</i>					
<b>Recommended semester:</b> <i>4<sup>th</sup> semester in the 2<sup>nd</sup> year full-time 6<sup>th</sup> semester in the 3<sup>rd</sup> year part-time</i>					
<b>Degree of study:</b> <i>the 2<sup>nd</sup> degree of study (Engineer's degree)</i>					
<b>Course prerequisites:</b> <i>Graduation of all compulsory and optional course units from study plan including the course of MI-I-PV-15B Technology of special inorganic materials</i>					
<b>Assessment methods:</b> <i>Successful graduation of the state examination course.</i>					
<b>Learning outcomes of the course unit:</b> <i>During state examination, student has knowledge about patterns and principles of selected technology of special inorganic materials. Student has knowledge about the properties of given special materials and their utilization in the science as well as industry.</i>					
<b>Course contents:</b> <i>Definition of the special materials Special technologies, small-scale technologies Physical-chemical principles Sol-gel technology Glass-ceramics materials Ionically conducting non-metallic materials Inorganic-organic materials</i>					
<b>Recommended of required reading:</b> <i>MUCK, A.: Základy strukturní anorganické chemie. Praha: Academia, 2006. RAO, N.R., MÜLLER, A., CHEETHAM, A.K.: The chemistry of nanomaterials., Vol. 1, 2. Weinheim: Wiley-VCH, 2004. BRINKER, C.J., SCHERER, G.W.: Sol-gel Science : The physics and chemistry of sol-gel processing. Boston: Academic Press, 1990. SWAIN, M.V. (Ed.): Structure and Properties of Ceramics, Vol. 11. In: Cahn, R.W., Haasen, P., Kramer, E.J. (Eds.): Materials Science and Technology: A Comprehensive Treatment. Weinheim: Wiley-VCH, 2000.</i>					
<b>Language:</b> <i>Slovak</i>					
<b>Remarks:</b> <i>none</i>					
<b>Evaluation history:</b> Number of students: <i>0</i>					
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., Ing. Jana Pagáčová, PhD.</i>					
<b>Last modification:</b> <i>31.03.2014</i>					
<b>Supervisor:</b> <i>prof. Ing. Darina Ondrušová, PhD.</i>					