

## Information sheet for the course Mathematics Seminar II

<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-PV-4</i>			<b>Course unit title:</b> <i>Mathematics Seminar II</i>			
<b>Type of course unit:</b> <i>optional</i>						
<b>Planned types, learning activities and teaching methods:</b> <i>Lecture: 0</i> <i>Seminar: 2 hours weekly/26 hours per semester of study; face to face</i> <i>Laboratory tutorial: 0</i>						
<b>Number of credits:</b> <i>2</i>						
<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 1<sup>st</sup> degree of study (Bachelor's degree)</i>						
<b>Course prerequisites:</b> <i>none</i>						
<b>Assessment methods:</b> <i>Lecturers, exercises</i>						
<b>Learning outcomes of the course unit:</b> <i>Students obtain practical experience and skills needed to deal with concrete examples of Mathematics II. which are typologically oriented to the role of technical experience. They can handle typical procedures used to solve mathematical problems of functions of several variables, the partial derivatives, differential, local and global extremes of functions of several variables. Solution examples of vector functions of vector analysis of double and triple integrals, line integrals of certain types of differential equations.</i>						
<b>Course contents:</b> <i>Solution of examples of functions of two or more variables</i> <i>Solution of examples of differential calculus of functions of several variables</i> <i>Solution of examples of differential equations</i> <i>Solution of examples of plural integrals</i> <i>Solution of Application examples of these topics through practical technical tasks</i>						
<b>Recommended of required reading:</b> <i>J. Ivan, Matematika II, Alfa 1989</i> <i>Klúváneš, Mišik, Švec: Matematika II, Alfa Bratislava.</i> <i>Eliaš J., Horváth J., Kajan J., Zbierka úloh z vyššej matematiky, 1. časť, 3. vydanie, Bratislava, ALFA 1971.</i> <i>Eliaš J., Horváth J., Kajan J., Zbierka úloh z vyššej matematiky, 2. časť, 3. vydanie, Bratislava, ALFA 1972.</i> <i>Eliaš J., Horváth J., Kajan J., Zbierka úloh z vyššej matematiky, 3. časť, 1. vydanie, Bratislava, SVTL 1967.</i> <i>Eliaš J., Horváth J., Kajan J., Šulka R., Zbierka úloh z vyššej matematiky, 4. časť, 1. vydanie, Bratislava, ALFA 1970</i>						
<b>Language:</b> <i>Slovak</i>						
<b>Remarks:</b>						
<b>Evaluation history:</b>						
A	B	C	D	E	FX	

<b>Lecturers:</b> <i>doc. RNDr. Ladislav Matejíčka, CSc.</i>					
<b>Last modification:</b> <i>31.03.2014</i>					
<b>Supervisor:</b> <i>prof. Ing. Darina Ondrušová, PhD.</i>					