

## Information sheet for the course Mathematics I

<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-P-1</i>			<b>Course unit title:</b> <i>Mathematics I</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: 2 hours weekly/26 hours per semester of study; face to face</i> <i>Laboratory tutorial: 0</i>					
<b>Number of credits:</b> <i>5</i>					
<b>Recommended semester:</b> <i>1<sup>st</sup> semester in the 1<sup>st</sup> year full-time</i> <i>1<sup>st</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 will be able to use mathematics with the necessary extent and quality. They will be succeed to make all the necessary technical calculations and they obtain knowledge for solution of many theoretical and practical problems</i>					
<b>Course contents:</b> <i>Basic concepts, set math, logic</i> <i>Selected themes from Algebra</i> <i>Real functions of one variable</i> <i>Differential calculus of real functions</i> <i>Indefinite integral</i> <i>Definite Integral</i>					
<b>Recommended of required reading:</b> <i>J. Ivan, Matematika I, Alfa 1983</i> <i>I. Fabrici, M. Šabo, Matematika I, STU Bratislava, 1997</i> <i>M. Šabo, Matematika I, STU Bratislava, 2009</i> <i>Klúváneek, Mišík, Švec: Matematika I, 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>					
<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 Matejička, CSc.</i>					
<b>Last modification:</b> <i>31.03.2014</i>					

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