

## Information sheet for the course Mathematics II

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| <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-9</i>  |   |   | <b>Course unit title:</b> <i>Mathematics II</i> |   |    |
| <b>Type of course unit:</b> <i>compulsory</i>   |   |   |   |   |    |
| <b>Planned types, learning activities and teaching methods:</b><br><i>Lecture: 2 hours weekly/26 hours per semester of study; face to face</i><br><i>Seminar: 2 hours weekly/26 hours per semester of study; face to face</i><br><i>Laboratory tutorial: 0</i>  |   |   |   |   |    |
| <b>Number of credits:</b> <i>5</i>  |   |   |   |   |    |
| <b>Recommended semester:</b> <i>2<sup>nd</sup> semester in the 1<sup>st</sup> year full-time</i><br><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>Mathematics I</i>   |   |   |   |   |    |
| <b>Assessment methods:</b><br><i>Lecturers, exercises</i>   |   |   |   |   |    |
| <b>Learning outcomes of the course unit:</b><br><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><br><i>Functions of two or more variables</i><br><i>Differential calculus of functions of several variables</i><br><i>Selected chapters from differential equations</i><br><i>integration for functions of several variables.</i><br><i>Applications of these themes for practical using</i>   |   |   |   |   |    |
| <b>Recommended of required reading:</b><br><i>J. Ivan, Matematika II, Alfa 1989</i><br><i>Klúváneš, Mišík, Švec: Matematika I, II, Alfa Bratislava.</i><br><i>Eliaš J., Horváth J., Kajan J., Zbierka úloh z vyššej matematiky, 2. časť, 3. vydanie, Bratislava, ALFA 1972.</i><br><i>Eliaš J., Horváth J., Kajan J., Zbierka úloh z vyššej matematiky, 3. časť, 1. vydanie, Bratislava, SVTL 1967.</i><br><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>   |   |   |   |   |    |

