Information sheet for the course: Selected Chapters in Mathematics II

University: Alexander Dubček University of Trenčín

Faculty: Faculty of Industrial Technologies in Púchov

Course unit code: PP-P-8	**Course unit title: Selected Chapters in Mathematics II**

Form, scope and method of educational activity:
Form of study: Lecture / Seminar / Laboratory tutorial
Recommended number of lessons (hours):
Weekly: 2/2/0 **During the semester:** 24/24/0 **Method of study:** attendance method

Number of credits: 5

Recommended semester: summer

Degree of study: The 1st degree of study

Course prerequisites: PP-P-1 – Selected Chapters in Mathematics I.

Assessment methods:
Assessment during the semester:
Summary assessment of work results during the semester = 40 points
The condition for participation in the final test is to obtain at least 20 points during the semester.
Final assessment:
Assessment of exam results = 60 points
Grading scale:
Grade A: 91 – 100 points
Grade B: 81 – 90 points
Grade C: 71 – 80 points
Grade D: 61 – 70 points
Grade E: 55 – 60 points
Grade FX: less than 55 points

Learning outcomes of the course unit:
The student masters university mathematics to the necessary extent and quality so that he can make all the necessary technical calculations throughout his studies and can use the acquired knowledge in subsequent subjects and practice.

Course contents:
Function of two or more variables.
Differential calculus of functions of several variables.
Selected states from differential equations.
Multiple integrals.
Applications of the mentioned topics to practical technical problems.

Recommended of required reading:
1. Sherman K. Stein: Calculus and Analytic Geometry, Fourth edition, McGRAW-HILL BOOK COMPANY
2. https://tutorial.math.lamar.edu/

Language:
English

Remarks:
Compulsory course

Evaluation history: 0
Total number of graded students:

A	B	C	D	E	FX
0.0	0.0	0.0	0.0	0.0	0.0

Lecturers: doc. RNDr. Soňa Pavlíková, CSc

Last modification: 31.08.2022

Supervisor: prof. Ing. Ján Vavro, PhD.