

The Department of Mathematics

2024–25–A term

Course Name Differential and Integral Calculus IE2

Course Number 201.1.9621

Course web page

<https://www.math.bgu.ac.il/en/teaching/fall2025/courses/differential-and-integr>

Office Hours <https://www.math.bgu.ac.il/en/teaching/hours>

Abstract

Requirements and grading¹

Course topics

The aim of the course is to learn basis of Calculus of functions of two and more variables. It includes: a) short study of vector algebra and analytic geometry in plane and space; b) differential calculus of two and more variables and its applications to local and global extremum problems, directional derivatives, Teylor's formula, etc.;c) Integral calculus (line, double and triple integrals) and its applications; d) vector field theory and in particular its applications for studying potential vector fields.

¹Information may change during the first two weeks of the term. Please consult the webpage for updates