# The Department of Mathematics

## 2017–18–B term

**Course Name** Dffierential and Integral Calculus IE2

**Course Number** 201.1.9621

**Course web page**
> https://www.math.bgu.ac.il//en/teaching/spring2018/courses/
> differential-and-integral-calculus-ie2

**Lecturer** Prof. Fedor Pakovich, `<pakovich@bgu.ac.il>`, Office 310

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

## Abstract

## Requirements and grading[1]

## 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) dffierential 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.

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