

The Department of Mathematics

2022–23–A term

Course Name Introduction to Differential Equations B

Course Number 201.1.9171

Course web page

<https://www.math.bgu.ac.il/en/teaching/fall2023/courses/introduction-to-differe>

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

Abstract

Requirements and grading¹

Course topics

Ordinary differential equations: explicit solutions of first order equations. 2nd order equations. Higher order ordinary differential equations. Systems of ordinary differential equations. 2. Fourier series: Review of series of functions, Fourier expansions and properties of Fourier series, convergence of Fourier series, Gibbs phenomenon. Application to the heat conduction equation. 3. Additional applications as time permits.

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