The Department of Mathematics

2022–23–A term

Course Name Introduction to Dffierential Equations C

Course Number 201.1.9271

Course web page
https://www.math.bgu.ac.il//en/teaching/fall2023/courses/introduction-to-differe

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

Abstract

Requirements and grading[1]

Course topics

1. Ordinary dffierential equations: explicit solutions of first -order equations. 2nd order equations. Higher order ordinary dffierential equations. Systems of ordinary dffierential equations.

2. Fourier series: Review of series of functions, Fourier expansions and properties of Fourier series, convergence of Fourier series, Gibbs phenomenon. Application to periodic ODE's.

3. The Laplace transform and applications to ODE's.

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