אוניברסיטת
בן-גוריון בנגב

The Department of Mathematics

2020–21–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/fall2021/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.

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