The Department of Mathematics
2020–21–B term

Course Name  Introduction to Differential Equations B2

Course Number  201.1.9471

Course web page

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

Abstract

Requirements and grading‡

Course topics
First-Order PDE Cauchy Problem Method of Characteristics The Wave Equation:
Vibrations of an Elastic String D’Alembert’s Solution Fourier Series Fourier Sine
Series Initial-Boundary Value Problems The Wave Equation .Separation of Var-
iables Fourier Series Solution of the Heat Equation The Heat Equation. Duhamel’s
Principle. Laplace’s Equation. Dirichlet Problem for a Disc

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