The Department of Mathematics

2020–21–A term

Course Name Ordinary Dffierential Equations for Chemistry Students

Course Number 201.1.9341

Course web page
    `https://www.math.bgu.ac.il//en/teaching/fall2021/courses/ordinary-differential-e`

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

Abstract

Requirements and grading[1]

Course topics

Basic concepts, direction fields. First order dffierential equations. Separable and exact equations, integrating factors. Methods for finding explicit solutions, Bernoulli equations. Euler approximations. Examples, polulation growth. Second order dfiferential equations. Equations with constant coefficients, the solution space, the Wronskian. Nonhomogeneous equations. Variation of parameters. Systems of two first order equations with constant coefficients. Examples and applications.

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