



The Department of Mathematics

2020–21–A term

Course Name The Mathematics Of Systems 1

Course Number 201.1.9431

Course web page

<https://www.math.bgu.ac.il/en/teaching/fall2021/courses/the-mathematics-of-systems-1>

Lecturer Dr. Irena Lerman, <lerman@post.bgu.ac.il>, Office מיוס 110

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

Abstract

Requirements and grading¹

Course topics

Topics: .1 Limits and Continuity of functions, applications .2 Differentiability of functions, applications .3 Differentiation techniques .4 Differentiation of Implicit functions, applications .5 Investigation of functions. .6 Multivariable functions, Partial derivatives, applications .7 The Definite Integral .8 The Indefinite Integral .9 Applications of Integrals .10 Integration techniques .11 Taylor polynomials .12 Simple Differential Equations.

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