

# The Department of Mathematics

2019–20–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/fall2020/courses/the-mathematics-of-systems-1>

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

## Abstract

## Requirements and grading<sup>1</sup>

## 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.

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