

The Department of Mathematics

2019-20-A term

Course Name Calculus C

Course Number 201.1.9221

Course web page

https://www.math.bgu.ac.il//en/teaching/fall2020/courses/calculus-c

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

Abstract

Requirements and grading¹

Course topics

.1 Real numbers and real line, elementary functions and graphs, some functions arising in economics. The limit of a function, calculating limits using the limit laws, continuity, the number e.2. The derivative of a function, dffierential rules, higher derivatives, L'Hospital rules.3. Extreme values of functions, monotonic functions, point of inflection, concavity, curve sketching, applications to economics.4. Indefinite integrals, techniques of integration, definite and improper integrals, areas between curves, applications to economics.5. Functions of several variables, economics examples, partial derivatives, linearization, the chain rile, implicit and homogeneous functions, maximum and minimum, Lagrange multipliers.6. Introduction to linear algebra, matrices, linear systems.

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