

# The Department of Mathematics

2020–21–B term

**Course Name** Introduction to Topology

**Course Number** 201.1.0091

**Course web page**

<https://math.bgu.ac.il/en/teaching/spring2021/courses/introduction-to-topology>

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

## Abstract

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

## Course topics

Topological spaces and continuous functions (product topology, quotient topology, metric topology). Connectedness and Compactness. Countability Axioms and Separation Axioms (the Urysohn lemma, the Urysohn metrization theorem, Partition of unity). The Tychonoff theorem and the Stone-Cech compactification. Metrization theorems and paracompactness.

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