

# The Department of Mathematics

### 2022-23-A term

Course Name Basic Concepts in Topology and Geometry

Course Number 201.2.5221

Course web page https://www.math.bgu.ac.il//en/teaching/fall2023/courses/basic-concept-in-toplog

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

## Abstract

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

#### **Course topics**

- Topological manfiolds. The fundamental group and covering spaces. Applications.
- Singular homology and applications.
- Smooth manfiolds. Dffierential forms and Stokes' theorem, definition of de-Rham cohomology.
- Additional topics as time permits.

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