The Department of Mathematics
2021–22–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/fall2022/courses/basic-concept-in-toplogy-and-geometry

Lecturer  Prof. Dmitry Kerner, <kernerdm@bgu.ac.il>, Office 217
Office Hours  https://www.math.bgu.ac.il/en/teaching/hours

Abstract

Requirements and grading

Course topics

• Topological manifolds. The fundamental group and covering spaces. Applications.

• Singular homology and applications.

• Smooth manifolds. Differential forms and Stokes' theorem, definition of de-Rham cohomology.

• Additional topics as time permits.

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