The Department of Mathematics
2020–21–A term

Course Name  Basic Concepts in Topology and Geometry
Course Number  201.2.5221
Lecturer  Dr. Michael Brandenbursky, <brandens@bgu.ac.il>, Office 306
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.

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