

## The Department of Mathematics

2021–22–B term

**Course Name** Graph Theory

**Course Number** 201.1.6081

**Course web page**

<https://www.math.bgu.ac.il/en/teaching/spring2022/courses/graph-theory>

**Lecturer** Prof. Shakhar Smorodinsky, <shakhar@bgu.ac.il>, Office 208

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

### Abstract

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

### Course topics

Graphs and sub-graphs, trees, connectivity, Euler tours, Hamilton cycles, matching, vertex and edge colorings, planar graphs, introduction to Ramsey theory, directed graphs, probabilistic methods and linear algebra tools in Graph Theory.

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