

## The Department of Mathematics

2021–22–A term

**Course Name** Logic

**Course Number** 201.1.6061

**Course web page**

<https://www.math.bgu.ac.il/en/teaching/fall2022/courses/logic>

**Lecturer** Prof. Assaf Hasson, <hassonas@bgu.ac.il>, Office 204

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

### Abstract

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

### Course topics

- An axiom system for predicate calculus and the completeness theorem.
- Introduction to model theory: The compactness Theorem, Skolem–Löwenheim Theorems, elementary substructures.
- Decidability and undecidability of theories, Gödel first Incompleteness Theorem.

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