האוניברסיטה העברית בירושלים
THE HEBREW UNIVERSITY OF JERUSALEM

The Hebrew University of Jerusalem

Syllabus

Boolean algebras - 80699

Last update 27-08-2024

HU Credits: 2

Degree/Cycle: 2nd degree (Master)

Responsible Department: Mathematics

Academic year: 0

Semester: 2nd Semester

Teaching Languages: Hebrew

Campus: E. Safra

Course/Module Coordinator: Shimon Garti

Coordinator Email: shimon.garty@mail.huji.ac.il

Coordinator Office Hours: by appointment

Teaching Staff:

Dr. Shimon Garty

Course/Module description:
  We will focus on infinite Boolean algebras, trying to cover classical issues like representation theorems, completions and free constructions.

Course/Module aims:
  To acquire the basics of Boolean algebras.

Learning outcomes - On successful completion of this module, students should be able to:
  Read advanced material, including neighbor areas (e.g., set theory) related to Boolean algebras.

Attendance requirements(%):
  None

Teaching arrangement and method of instruction: Lecture

Course/Module Content:
  Arithmetic of Boolean algebras, Stone's representation theorems, completions of Boolean algebras, free constructions, decidability.

Required Reading:
 None

 Additional Reading Material:
  Handbook of Boolean algebras, research articles.

 Grading Scheme:
  Essay / Project / Final Assignment / Home Exam / Referat 100 %

Additional information: