



## Syllabus

### Cardinal characteristics of the continuum - 80705

Last update 31-07-2023

HU Credits: 2

Responsible Department: Mathematics

Academic year: 0

Semester: 1st Semester

Teaching Languages: Hebrew

Campus: E. Safra

Course/Module Coordinator: Shimon Garti

Coordinator Email: [shimon.garty@mail.huji.ac.il](mailto:shimon.garty@mail.huji.ac.il)

Coordinator Office Hours: flexible, through mail

Teaching Staff:

Dr. Shimon Garty

Course/Module description:

We will discuss cardinal characteristics of the continuum, both classical and

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generalized.

Course/Module aims:

To be familiar with this branch of set theory, and to meet the main open problems in this area.

Learning outcomes - On successful completion of this module, students should be able to:

To read advanced material and to be able to attack open problems.

Attendance requirements(%):

none.

Teaching arrangement and method of instruction: Frontal teaching.

Course/Module Content:

- a. splitting and dominating.
- b. generalized splitting and dominating.
- c. pseudointersection and tower numbers.
- d. Martin and Galvin num.
- e. almost disjointness and independence.
- f. ultrafilter number.
- g. groupwise density.

Required Reading:

none.

Additional Reading Material:

The article of Andreas Blass in the Handbook of Set Theory, and a variety of papers in the subject.

Grading Scheme:

Essay / Project / Final Assignment / Home Exam / Referat 100 %

Additional information:

none.