



Syllabus

Combinatorial geometry - 80449

Last update 12-10-2020

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: Orit Raz

Coordinator Email: oritraz@mail.huji.ac.il

Coordinator Office Hours:

Teaching Staff:

Dr. Orit Raz

Course/Module description:

Combinatorial geometry is a field that studies combinatorial problems that have some geometric aspect. It was pioneered and developed by Paul Erdos, starting at the beginning of the 20th century. While such problems are often easy to state, some of them are very difficult, have a deep underlying theory, and remain (or have remained) open for many decades.

In the seminar, we will learn fundamental results in the field (such as the Szemerédi-Trotter theorem), some more recent developments, and introduce some of the tools available to attack problems in the field.

Course/Module aims:

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

יפורט בהמשך

Attendance requirements(%):

90%

Teaching arrangement and method of instruction:

Course/Module Content:

TBA

Required Reading:

None

Additional Reading Material:

Course/Module evaluation:

End of year written/oral examination 0 %

Presentation 90 %

Participation in Tutorials 10 %

Project work 0 %

Assignments 0 %
Reports 0 %
Research project 0 %
Quizzes 0 %
Other 0 %

Additional information: