

The Hebrew University of Jerusalem Syllabus

DESCRIPTIVE SET THEORY - 80962

Last update 19-02-2022

HU Credits: 3

<u>Degree/Cycle:</u> 2nd degree (Master)

Responsible Department: Mathematics

Academic year: 0

Semester: 2nd Semester

<u>Teaching Languages:</u> Hebrew

Campus: E. Safra

Course/Module Coordinator: Omer Ben-Neria

Coordinator Email: omer.bn@mail.huji.ac.il

Coordinator Office Hours:

Teaching Staff:

Prof Omer Ben-Neria

Course/Module description:

We will survey the theory of Borel equivalence relations, with an emphasis on countable group actions, classification problems, and Borel graph combinatorics.

Course/Module aims:

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

To be familiar with the theory of Borel equivalence relations.

<u>Attendance requirements(%):</u>

100

Teaching arrangement and method of instruction: Seminar

Course/Module Content:

We will survey the theory of Borel equivalence relations, with an emphasis on countable group actions, classification problems, and Borel graph combinatorics.

Required Reading:

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Additional Reading Material:

- (1) A. Kechris (1995), "Classical Descriptive Set Theory"
- (2) S. Gao (2008), "Invariant Descriptive Set Theory"

Course/Module evaluation:

End of year written/oral examination 0 % Presentation 0 % Participation in Tutorials 0 % Project work 0 % Assignments 100 % Reports 0 % Research project 0 % Quizzes 0 % Other 0 %

Additional information: