



# *The Hebrew University of Jerusalem*

## *Syllabus*

### *Groups and Dynamics - 80586*

*Last update 29-08-2023*

*HU Credits: 3*

*Degree/Cycle: 2nd degree (Master)*

*Responsible Department: Mathematics*

*Academic year: 2024*

*Semester: 2nd Semester*

*Teaching Languages: Hebrew*

*Campus: E. Safra*

*Course/Module Coordinator: Benjamin Weiss*

*Coordinator Email: [weiss@math.huji.ac.il](mailto:weiss@math.huji.ac.il)*

*Coordinator Office Hours: By appointment*

*Teaching Staff:*

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*Prof Benjamin Weiss*

Course/Module description:

*We will define various classes of groups such as:  
amenable, property T, sofic*

*...*

*and study their actions - both measure theoretic and topological.*

Course/Module aims:

*To learn about different kinds of groups and how their actions are similar and different from the classical Z-actions.*

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

*The ability to read current research articles in these areas.*

Attendance requirements(%):

*None*

*Teaching arrangement and method of instruction: lectures*

Course/Module Content:

*Various kinds of groups and their actions.*

Required Reading:

*None*

Additional Reading Material:

Grading Scheme:

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

Additional information: