האוניברסיטה העברית בירושלים
THE HEBREW UNIVERSITY OF JERUSALEM

Syllabus

ERGODIC THEORY - 80615

Last update 16-10-2018

HU Credits: 3

Responsible Department: Mathematics

Academic year: 0

Semester: 2nd Semester

Teaching Languages: Hebrew

Campus: E. Safra

Course/Module Coordinator: Dr. Zemer Kosloff

Coordinator Email: zemer.kosloff@math.huji.ac.il

Coordinator Office Hours:

Teaching Staff:
Dr. Zemer Kosloff

Course/Module description:
An introductory course in ergodic theory

Course/Module aims:

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

The students will be able to take advanced courses in ergodic theory

Attendance requirements(%):

Teaching arrangement and method of instruction:

Course/Module Content:

motivation, Poincare recurrence, mean and pointwise ergodic theorems, mixing and weak mixing, invariant measures, ergodic decomposition, entropy, Shannon-McMillan-Breiman theorem, Pinsker factor and K-systems

Required Reading:

None

Additional Reading Material:

Ergodic theory with a view toward number theory, Einsiedler- Ward

Ergodc theory, Petersen

Course notes

Course/Module evaluation:

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

Additional information: