האוניברסיטה העברית בירושלים
THE HEBREW UNIVERSITY OF JERUSALEM

The Hebrew University of Jerusalem

Syllabus

Introduction to Langlands program - 80708

Last update 30-01-2024

HU Credits: *2*

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

Responsible Department: *Mathematics*

Academic year: *2024*

Semester: *2nd Semester*

Teaching Languages: *Hebrew*

Campus: *E. Safra*

Course/Module Coordinator: *Prof Yakov Varshavsky*

Coordinator Email: *yakov.varshavsky@mail.huji.ac.il*

Coordinator Office Hours: *By appointment*

Teaching Staff:

Prof Yakov Varshavsky

Course/Module description:
The goal of the course is to give an introduction to various aspects of Langlands program.

Course/Module aims:

Learning outcomes - On successful completion of this module, students should be able to:
familiarity with various aspects of Langlands program

Attendance requirements(%):

Teaching arrangement and method of instruction:

Course/Module Content:
The tentative list of topics include:

1) Local and global class field theory

2) Basics notions of representations of p-adic groups and formulation of the Local Langlands conjecture.

4) Automorphic representations and fromulation of global Langlands conjecture

5) Geometric class field theory and Geometric Langlands.

Required Reading:
No

Additional Reading Material:

Grading Scheme:

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

Additional information:

Pass/fail grade