האוניברסיטה העברית בירושלים
THE HEBREW UNIVERSITY OF JERUSALEM

The Hebrew University of Jerusalem

Syllabus

Berkovich spaces - 80738

Last update 13-09-2024

HU Credits: 3

Degree/Cycle: 2nd degree (Master)

Responsible Department: Mathematics

Academic year: 0

Semester: 1st Semester

Teaching Languages: English and Hebrew

Campus: E. Safra

Course/Module Coordinator: Prof. Michael Temkin

Coordinator Email: michael.temkin@mail.huji.ac.il

Coordinator Office Hours: by appointment

Teaching Staff:

Prof. Michael Temkin

Course/Module description:

Non-archimedean fields, affinoid rings, Weierstrass theory (preperation and division),affinoid spaces, analytic spaces, formal models, curves: semistable reduction theorem, skeleton of a curve, morphisms between curves.

This is an advanced topic course which assumes a basic knowledge of algebraic geometry and scheme theory

Course/Module aims:

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

• Expanding the student's knowledge in the chosen subject.

• Developing independent learning skills.

• Acquiring the ability to read advanced mathematical texts.
Preparation for research

Attendance requirements(%):

100%

Teaching arrangement and method of instruction: Determined between the teacher and the student.

Course/Module Content:

Determined between the teacher and student.

Required Reading:

Determined between the teacher and student.

Additional Reading Material:

Grading Scheme:

Presentation / Poster Presentation / Lecture/ Seminar / Pro-seminar / Research proposal 100 %

Additional information:

The composition of the final grade is determined on a case by case basis.