



The Hebrew University of Jerusalem

Syllabus

Analytic Number Theory - 80610

Last update 16-10-2017

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: Jasmin Matz

Coordinator Email: jasmin.matz@mail.huji.ac.il

Coordinator Office Hours:

Teaching Staff:

Dr. Zev Rosengarten

Course/Module description:

The prime number theorem, functional equation for the Riemann zeta function, Dirichlet theorem, arithmetic functions.

Course/Module aims:

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

Students will learn classical theorems in analytic number theory

Attendance requirements(%):

Teaching arrangement and method of instruction:

Course/Module Content:

The prime number theorem, functional equation for the Riemann zeta function, Dirichlet theorem, arithmetic functions.

Required Reading:

Davenport: Multiplicative Number Theory

Additional Reading Material:

Apostol, Introduction to Analytic Number Theory

Grading Scheme:

Additional information: