Syllabus

Analytic Number Theory - 80610

Last update 16-10-2017

<u>*HU Credits:*</u> *3*

<u>*Responsible Department:*</u> *Mathematics*

<u>*Academic year:*</u> *0*

<u>*Semester:*</u> *2nd Semester*

<u>*Teaching Languages:*</u> *Hebrew*

<u>*Campus:*</u> *E. Safra*

<u>*Course/Module Coordinator:*</u> *Jasmin Matz*

<u>*Coordinator Email:*</u> [*jasmin.matz@mail.huji.ac.il*](mailto:jasmin.matz@mail.huji.ac.il)

<u>*Coordinator Office Hours:*</u>

<u>*Teaching Staff:*</u>
Dr. Zev Rosengarten

<u>*Course/Module description:*</u>
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: