Syllabus

Fourier Analysis - 80770

 Last update 17-03-2018

<u>*HU Credits:*</u> *2*

<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> *Jonathan Breuer*

 <u>*Coordinator Email:*</u> [*jbreuer@math.huji.ac.il*](mailto:jbreuer@math.huji.ac.il)

<u>*Coordinator Office Hours:*</u> *Sunday, 14:00--15:00*

<u>*Teaching Staff:*</u>
  Prof Jonathan Breuer

<u>*Course/Module description:*</u>
  Basic Properties of Fourier Series, Convergence of Fourier Series, Applications of

Fourier Series, The Fourier Transform, Finite Fourier Analysis

Course/Module aims:
  Knowledge of aspects of Fourier analysis

Learning outcomes - On successful completion of this module, students should be able to:
  On successful completion of this module, students should be able to define basic concepts in Fourier analysis, to prove classical theorems, and solve exercises using tools studied in class.

Attendance requirements(%):

Teaching arrangement and method of instruction: Lecture

Course/Module Content:
  Basic Properties of Fourier Series, Convergence of Fourier Series, Applications of Fourier Series, The Fourier Transform, Finite Fourier Analysis

Required Reading:
 Fourier Analysis, An Introduction/ Elias M. Stein and Rami Shakarchi; Princeton Lectures in Analysis I. Princeton University Press, Princeton, New Jersey, 2003

 Additional Reading Material:

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

Additional information: