האוניברסיטה העברית בירושלים THE HEBREW UNIVERSITY OF JERUSALEM



## The Hebrew University of Jerusalem

Syllabus

## Distributions and boundary value problems - 80790

Last update 19-09-2024

HU Credits: 3

Degree/Cycle: 2nd degree (Master)

**Responsible Department:** Mathematics

Academic year: 0

Semester: 2nd Semester

<u>Teaching Languages:</u> Hebrew

Campus: E. Safra

Course/Module Coordinator: Raz Kupferman

Coordinator Email: Raz.Kupferman@mail.huji.ac.il

Coordinator Office Hours: In coordination

Teaching Staff:

Prof. Raz Kupferman

Course/Module description:

An advanced course in analysis, including topics in distribution theory, Sobolev spaces and boundary-value problems.

<u>Course/Module aims:</u> Widen knowledge in analysis.

## <u>Learning outcomes - On successful completion of this module, students should be</u> <u>able to:</u> Prove theorem.

Attendance requirements(%):

Teaching arrangement and method of instruction: Frontal lectures.

<u>Course/Module Content:</u> Topological vector space Test functions Distributions Sobolev spaces Boundary-value problems

<u>Required Reading:</u> N/A

<u>Additional Reading Material:</u> Distributions and Operators, by Gerd Grubb

<u>Grading Scheme:</u> Written / Oral / Practical Exam 100 %

Additional information: