

## *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

*Teaching Languages:* Hebrew

*Campus:* E. Safra

*Course/Module Coordinator:* Raz Kupferman

*Coordinator Email:* [Raz.Kupferman@mail.huji.ac.il](mailto:Raz.Kupferman@mail.huji.ac.il)

*Coordinator Office Hours:* In coordination

*Teaching Staff:*

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Prof. Raz Kupferman

Course/Module description:

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

Course/Module aims:

Widen knowledge in analysis.

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

Prove theorem.

Attendance requirements(%):

Teaching arrangement and method of instruction: Frontal lectures.

Course/Module Content:

Topological vector space  
Test functions  
Distributions  
Sobolev spaces  
Boundary-value problems

Required Reading:

N/A

Additional Reading Material:

Distributions and Operators, by Gerd Grubb

Grading Scheme:

Written / Oral / Practical Exam 100 %

Additional information:

