



The Hebrew University of Jerusalem

Syllabus

TOPICS IN LEARNING THEORY - 67939

Last update 01-08-2023

HU Credits: 2

Degree/Cycle: 2nd degree (Master)

Responsible Department: Computer Sciences

Academic year: 0

Semester: 2nd Semester

Teaching Languages: English and Hebrew

Campus: E. Safra

Course/Module Coordinator: Amit Daniely

Coordinator Email: amit.daniely@mail.huji.ac.il

Coordinator Office Hours:

Teaching Staff:

Prof Amit Daniely

Course/Module description:

The course will discuss advanced topics in learning theory. This year we will focus on neural network theory

Course/Module aims:

Study modern research techniques and results in learning theory

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

Use the tools covered in class to read and do research in learning theory

Attendance requirements(%):

0

Teaching arrangement and method of instruction: Lectures

Course/Module Content:

- 1. Basic Concepts in Learning Theory - Generalization and Computational Complexity*
- 2. Generalization of Neural Networks*
- 3. Computational Complexity of Neural Networks*

Required Reading:

None

Additional Reading Material:

None

Grading Scheme:

Submission assignments during the semester: Exercises / Essays / Audits / Reports / Forum / Simulation / others 100 %

Additional information:

