The Hebrew University of Jerusalem

Syllabus

LINEAR ALGEBRA (1) - 80134

Last update 14-04-2020

HU Credits: 6

Degree/Cycle: 1st degree (Bachelor)

Responsible Department: Mathematics

Academic year: 0

Semester: 1st and/or 2nd Semester

Teaching Languages: Hebrew

Campus: E. Safra

Course/Module Coordinator: Alex Gurevich

Coordinator Email: gurevich@math.huji.ac.il

Coordinator Office Hours: By appointment

Teaching Staff:

Dr. Ori Parzan
Mr. Itamar Cwik
Mr. Muhamad Abu-Radi
Mr. Noam Kolodner
Dr. GILI SCHUL-GANZ
Mr. Tzoor Plotnikov
Mr. Behar Amir
Mr. Pavel Giterman
Mr. Elad Kosloff
Dr. Alex Gourevich
Mr.
Mr. Raz Or
Mr.

Course/Module description:
Fields. Complex Numbers. Vector Spaces. Linear Equations. Determinants. Matrices and Linear Transformations.

Course/Module aims:
Introduction to Linear Algebra.

Learning outcomes - On successful completion of this module, students should be able to:
Familiarity with the definition of a Field, a Vector Space, a Basis, and a spanning set.

To prove theorems regarding the basic properties of vector spaces.

The concept of a linear transformation and its matrix representation, and the concept of a determinant.

Applications of linear spaces and transformations to analyze solutions to systems of linear equations.

Attendance requirements(%):
0

Teaching arrangement and method of instruction: Lecture + exercise

Course/Module Content:

Fields. Complex Numbers. Vector Spaces. Linear Equations. Determinants. Matrices and Linear Transformations.

Required Reading:

none

Additional Reading Material:

K.Hoffman, R.Kunze,
Linear Algebra

Course/Module evaluation:

End of year written/oral examination 80 %
Presentation 0 %
Participation in Tutorials 0 %
Project work 0 %
Assignments 20 %
Reports 0 %
Research project 0 %
Quizzes 0 %
Other 0 %

Additional information:

If necessary, an examination will be conducted by electronic means. If an examination is not possible, the evaluation will be based on the exercises.