האוניברסיטה העברית בירושלים
THE HEBREW UNIVERSITY OF JERUSALEM

The Hebrew University of Jerusalem

Syllabus

LINEAR ALGEBRA (1) - 80134

Last update 17-10-2017

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: Prof Zlil Sela

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

Coordinator Office Hours: By appointment

Teaching Staff:

Prof Ehud Deshalit
Prof Zlil Sela
Mr.
Mr. Lior Yanovski
Mr. Muhamad Abu-Radi
Dr. Alex Gourevich
Mr. Ariel Davis
Mr. Amitai Yuval
Mr. Itamar Cwik
Mr. Michael Simkin

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:
none

Course/Module evaluation:
End of year written/oral examination 80 %
Presentation 0 %
Participation in Tutorials 0 %
Project work 0 %
Assignments 10 %
Reports 0 %
Research project 0 %
Quizzes 10 %
Other 0 %

Additional information:
none