

# The Hebrew University of Jerusalem

Syllabus

NUMERIC ANALYSIS - 80301

Last update 01-09-2021

HU Credits: 2

<u>Degree/Cycle:</u> 1st degree (Bachelor)

Responsible Department: Mathematics

Academic year: 0

Semester: 1st Semester

Teaching Languages: English

Campus: E. Safra

Course/Module Coordinator: Prof Raz Kupferman

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

Coordinator Office Hours: Coordination via email

Teaching Staff:

# Prof Raz Kupferman

Course/Module description:
Introduction to numerical analysis.
Numerical linear algebra.
Approximation theory.
Interpolation.
Numerical integration.
Additional topics might be taught.

#### Course/Module aims:

same as in learning outcomes.

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

Ability to prove and apply the theorems presented in the course.

Ability to apply correctly the mathematical methodology in the context of the course.

Acquiring the fundamentals as well as basic familiarity with the field which will assist in the understanding of advanced subjects.

Ability to understanding and explain the subjects taught in the course.

Write simple code performing numerical simulations.

Communicate in English both orally and in writing.

### Attendance requirements(%):

(

Teaching arrangement and method of instruction: Frontal teaching.

Course/Module Content:
Introduction to numerical analysis.
Numerical linear algebra.
Approximation theory.
Interpolation.
Numerical integration.

Additional topics might be taught.

# Required Reading:

none

# Additional Reading Material:

Lecture notes in courses's website.

# 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:

The course will be conducted in English, including assignments and final exam.