



The Hebrew University of Jerusalem

Syllabus

Mathematics B - 55322

Last update 08-09-2024

HU Credits: 3

Degree/Cycle: 1st degree (Bachelor)

Responsible Department: Business Administration

Academic year: 0

Semester: 2nd Semester

Teaching Languages: Hebrew

Campus: Mt. Scopus

Course/Module Coordinator: Noa Nitzan

Coordinator Email: noa.nitzan@mail.huji.ac.il

Coordinator Office Hours: Monday, 11:30-12:30, oom 3203

Teaching Staff:

Dr. Noa Nitzan,
Ms. tal almagor

Course/Module description:

The module will focus on notions of calculus. We will first learn integration of a one variable function and then, for the rest of the module, we will focus on functions of two variables and on optimization techniques.

Course/Module aims:

To teach the calculus of several variables and the importance and use in optimization problems.

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

Ability to understand, explain and apply theorems presented in the course.

Ability to apply correctly the mathematical methodology in the context of the course, such as investigating a multi-variable function.

Attendance requirements(%):

none

Teaching arrangement and method of instruction: Lecture + recitation

Course/Module Content:

Integration, level-curves of functions of two variables, partial differentiation, homogeneous functions, techniques of optimization. Basic notions in Linear Algebra.

Required Reading:

none

Additional Reading Material:

Howard Anton, Calculus,
Anton Textbooks, Inc.

Grading Scheme:

Written / Oral / Practical Exam 90 %

*Submission assignments during the semester: Exercises / Essays / Audits / Reports
/ Forum / Simulation / others 10 %*

Additional information: