האוניברסיטה העברית בירושלים
THE HEBREW UNIVERSITY OF JERUSALEM

The Hebrew University of Jerusalem

Syllabus

INTRODUCTION TO PROBABILITY AND DESCRIPTIVE STATISTICS - 71025

Last update 27-08-2024

HU Credits: 2

Degree/Cycle: 1st degree (Bachelor)

Responsible Department: Environmental Economics & Management

Academic year: 0

Semester: 2nd Semester

Teaching Languages: Hebrew

Campus: Rehovot

Course/Module Coordinator: Dizza Bursztyn

Coordinator Email: dizza.bursztyn@mail.huji.ac.il

Coordinator Office Hours: Tuesday 11-12

Teaching Staff:
Dr. Dizza Bursztyn,
Mr. Shlomo Akiva Levin,
Dr. hadas Don

Course/Module description:
During the course we shall learn: probability, conditional probability, random variables, normal distribution and central limit theorem.
Descriptive statistics using JMP and Excel (self-learning)

Course/Module aims:
To provide basic statistical tools in probability and descriptive statistics using JMP and Excel software

Learning outcomes - On successful completion of this module, students should be able to:
Knowledge in probability calculations.
Use of graphical presentations and descriptive statistics in order to describe and summarize data.
Basic knowledge of JMP and Excel

Attendance requirements(%):
100

Teaching arrangement and method of instruction: Lectures, frontal exercise, homework

Course/Module Content:
Events, definition of probability, conditional probability, random variables, binomial distribution, normal distribution, central limit theorem, descriptive statistics: type of variables, frequency tables, graphical presentation, scale and dispersion parameters, percentiles

Required Reading:
Eizenbach Ronit: Statistics for non-statisticians.
Open university: Introduction to statistics and probability for social sciences students a (unit 1-8)
Introduction to statistics and probability for social sciences students b (unit 9)

Additional Reading Material:

Sall: JMP Start Statistics

Leviatan and Raviv: Introduction to probability and statistics (vol 1): Probability

Grading Scheme:

Written Exam % 85

Submission assignments during the semester: Exercises / Essays / Audits / Reports / Forum / Simulation / others 5 %

Other 10 %

Additional information:

The student should self-learn Excel. A test will be held in Excel, the weight of the test is 10%