האוניברסיטה העברית בירושלים
THE HEBREW UNIVERSITY OF JERUSALEM

The Hebrew University of Jerusalem

Syllabus

EXPERIMENTAL DESIGN FOR PLANT SCIENCE IN AGRICULTURE - 71332

Last update 27-08-2024

HU Credits: *4*

Degree/Cycle: *1st degree (Bachelor)*

Responsible Department: *Plant Science in Agriculture*

Academic year: *0*

Semester: *1st Semester*

Teaching Languages: *Hebrew*

Campus: *Rehovot*

Course/Module Coordinator: *Prof Zvi Peleg*

Coordinator Email: *zvi.peleg@mail.huji.ac.il*

Coordinator Office Hours: *by appointment*

Teaching Staff:
Prof. Zvi Peleg,
Ms. Michal mannes

Course/Module description:
Experimental design, hypothesis and research objectives, strategies for experimental design, simulations, interactions and source of variance.

Course/Module aims:
Develop hypothesis and research objectives
Experimental design for plant sciences
Strategies for experimental design and analysis

Learning outcomes - On successful completion of this module, students should be able to:
Design experiments to answer the research objectives and hypothesis

Attendance requirements(%):
100

Teaching arrangement and method of instruction: Lectures, lab

Course/Module Content:
1. generate hypothesis
2. define the factors
3. experimental design
4. experimental unit
5. adding more factors
6. split plot design
7. correlations between traits
8. natural experiments
9. data analysis
10. visualization of results

Required Reading:
No

Additional Reading Material:

Grading Scheme:

Written / Oral / Practical Exam 70 %

Submission assignments during the semester: Exercises / Essays / Audits / Reports / Forum / Simulation / others 30 %

Additional information: