The Hebrew University of Jerusalem

Syllabus

Environmental friendly weed management- principles and application - 71900

Last update 07-10-2024

HU Credits: 2

Degree/Cycle: 2nd degree (Master)

Responsible Department: Field and Vegetable Crops

Academic year: 0

Semester: 2nd Semester

Teaching Languages: English

Campus: Rehovot

Course/Module Coordinator: Ran Lati

Coordinator Email: lati.ran@mail.huji.ac.il

Coordinator Office Hours: By appointment

<u>*Teaching Staff:*</u>
  Dr. Ran Lati

<u>*Course/Module description:*</u>
  The course describes the motivation for using and adopting non-chemical weed control approaches. We overview the main non-chemical weed control approaches and tools. Then, in a lab experiment we test two non-chemical weed control methods, and students have to submit a report analyzing the data using non-linear models.

<u>*Course/Module aims:*</u>
  Familiarizing the student with the fields of non-chemical weed control and precise weed management

<u>*Learning outcomes - On successful completion of this module, students should be able to:*</u>
  Understanding the main concepts of non-chemical weed control. Advantages, limitations and optimal application as part of integrated weed management

<u>*Attendance requirements(%):*</u>
  compulsory

Teaching arrangement and method of instruction: Frontal

<u>*Course/Module Content:*</u>
  1-2 Introduction for non-Chemical weed control
3 Thermal weed control
4-5 Mechanical weed
6 Cultural weed control
7 field trip
8 Advanced approaches and Robotics
9-10 Lab and data analysis
11 Integrated managements and summary
12-13 Student presentations

<u>*Required Reading:*</u>
 will be elaborated along the course

Additional Reading Material:

 Grading Scheme:
  Essay / Project / Final Assignment / Home Exam / Referat 45 %
  Presentation / Poster Presentation / Lecture/ Seminar / Pro-seminar / Research proposal 45 %
  Attendance / Participation in Field Excursion 10 %

Additional information:
  The course will be given in English if one of the participants does not speak Hebrew