



## *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](mailto:lati.ran@mail.huji.ac.il)*

*Coordinator Office Hours: By appointment*

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Teaching Staff:

Dr. Ran Lati

Course/Module description:

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.

Course/Module aims:

Familiarizing the student with the fields of non-chemical weed control and precise weed management

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

Understanding the main concepts of non-chemical weed control. Advantages, limitations and optimal application as part of integrated weed management

Attendance requirements(%):

compulsory

Teaching arrangement and method of instruction: Frontal

Course/Module Content:

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

Required Reading:

will be elaborated along the course

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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