האוניברסיטה העברית בירושלים
THE HEBREW UNIVERSITY OF JERUSALEM

The Hebrew University of Jerusalem

Syllabus

parasitic weeds in agriculture - 71171

Last update 09-09-2024

HU Credits: 2

Degree/Cycle: 2nd degree (Master)

Responsible Department: Field and Vegetable Crops

Academic year: 0

Semester: 1st Semester

Teaching Languages: Hebrew

Campus: Rehovot

Course/Module Coordinator: Prof. Hanan Eizenberg

Coordinator Email: eizenber@volcani.agri.gov.il

Coordinator Office Hours: By appointment

Teaching Staff:

Prof. Hanan Eizenberg

Course/Module description:

Introduction: The relationship between parasitic plants and their hosts in agro-ecosystems. Review of the advance methodologies for s parasitic plants research. Life cycle, population dynamics and means for Orobanche spp., Striga spp. And cuscuta spp. Control. Breeding crops for resistance to parasites and elucidation of the resistance mechanism (s). Modeling and developing decision support system for Orobanche contro

Course/Module aims:

Presentation of the relationship between parasitic plants and their hosts in agro-ecosystems.
Review of the advance methodologies for s parasitic plants research.
Review of means for Orobanche spp., Striga spp. And cuscuta spp. Control.
Modeling and developing decision support system for Orobanche control

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

Describe the relationship between parasitic plants and their hosts in agro-ecosystems.
work with the advanced methodologies for parasitic plants
Review of means for Orobanche spp., Striga spp. And cuscuta spp. Control.

Attendance requirements(%):

100

Teaching arrangement and method of instruction: Lectures

Course/Module Content:

Presentation of the relationship between parasitic plants and their hosts in agro-ecosystems.
Review of the advanced methodologies for parasitic plant research.
Review of means for broomrape, Striga and Cuscuta control.
Modeling and developing a decision support system for broomrape control.
remote sensing of parasitic plants.

Required Reading:

-Parasitic Orobanchaceae
Parasitic Mechanisms and Control Strategies.
Editors:
Daniel M. Joel, Jonathan Gressel, Lytton J. Musselman
SPRINGER

Additional Reading Material:

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Grading Scheme:

Additional information:

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