



The Hebrew University of Jerusalem

Syllabus

FOREST ENTOMOLOGY - 71527

Last update 06-10-2021

HU Credits: 2

Degree/Cycle: 1st degree (Bachelor)

Responsible Department: Agroecology & Plant Health

Academic year: 2025

Semester: 1st Semester

Teaching Languages: Hebrew

Campus: Rehovot

Course/Module Coordinator: prof Zvi Mentel

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

Coordinator Office Hours: by appointment

Teaching Staff:

Prof. Zvi Mendel

Course/Module description:

The history and principles of forest entomology. Forest insects as determining the composition and forest structure design and Biogeographic and evolutionary aspects. Description of key pests and natural forest trees planted, with an emphasis on ecology and the population dynamics of pests. Forest management and its impact on the level of the population of pests and their natural enemies. Main methods of prevention and pest control.

Course/Module aims:

- One. Meet the scientific field called Forest Entomology
- Two. Understanding important insect groups in the forest with emphasis on insects in Israel's forest
- Three. Study interactions between insects and trees forest pests and their economic importance
- Four. Recognition of approaches and tools taken to prevent damage caused by forest insects
- Five. Understand the main approaches to pesticide

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

- One. Increased knowledge about groups of insects whose importance in small or limited in agriculture
- Two. Learning processes leading to the outbreak of pest populations in natural habitats
- Three. Understand unique methods for dealing with forest pests
- Four. Techniques using resistant trees

Attendance requirements(%):

100

Teaching arrangement and method of instruction: lecture

Course/Module Content:

- One. Introduction and recognition of the profession
- Two. Aphids in forest trees
- Three. Eating leaves pest
- Four. Insects development inside tree tissues
- Five. Pests on sawn timber and processed trees, termites

Six. Pests and pests lucrative properties in arid areas
Seven. Diseases of forest trees

Required Reading:
none

Additional Reading Material:
none

Grading Scheme:

Additional information:
none