

ENTOMOLOGY

(Specialization Horticulture 2nd Year of study, 1st)

Credit value (ECTS): 5

Course category: Domain-specific discipline

Course holder: PhD. Mihai TALMACIU

Discipline objectives (course and practical works):

- The discipline of Entomology, together with other specialized disciplines, contributes to the theoretical and practical training of future horticultural engineers.
- Formation of the basic knowledge base necessary to understand and operate with the notions specific to the field of entomology, at the same time the discipline aims to acquaint students with the main morphological and anatomical features of insects, biology, ecology and control of major pests of horticultural plants.
- Training in the ability to identify, formulate and explain problems specific to the field of entomology and to propose and interpret correctly the treatments for preventing and combating reported pests.

Contents (syllabus)

Course (chapters/subchapters)
General characteristics of insects: Body morphology in insects; Insect anatomy and physiology; Reproductive system.
Insect biology: Reproduction in insects; Insect development; Generations and evolutionary cycle; Diapause.
Insect ecology: Factors influencing insect development; The spread of insects
Estimation of pests and damages caused by pests: Phytosanitary control; Damage and damage caused by crop pests.
Forecast and warning: Elaboration of forecasts; Treatment warning
General methods of the pest control: Phytosanitary quarantine measures; agro-phytotechnical methods; mechanical methods; physical methods;
Biological means
Animal pest classification

Practical works
Insect morphology
Insect anatomy
Insect biology
Insect ecology
The dichotomous key to determining the main order of insects
Elaboration of the warning chart for chemical treatments.
Methods of pest prevention and control

Bibliography

1. Georgescu T., 1990 - Entomology Course. The general and special part. Internal use, Iasi.
2. Georgescu T., Tălmăciu M., 1995 - Practical works of Entomology. Internal use, Iasi.
3. Georgescu T., Tălmăciu M., Alexa C., 2003 - Pests of horticultural plants. Prevention and control. PIM Publishing House, Iași.
4. Georgescu T., 2004 - Pests of fruit trees and shrubs. Prevention and control. "Ion Ionescu de la Brad" Publishing House, Iasi.
5. Georgescu T., 2006 - Horticultural Entomology. "Dosoftei" Publishing House, Iași.
6. Ghizdavu I. et al., 1997 - Agricultural entomology. R.A. Didactic and Pedagogical Publishing House, Bucharest.
7. Tălmăciu M., 2005 - Agricultural Entomology, Ion Ionescu Publishing House from Brad, Iași

Evaluation

Evaluation form	Evaluation Methods	Percentage of the final grade
Test with various items	Knowledge and understanding of the notions included in the course	70%
Oral, case study, investigation, evaluation during the semester	Practice using information sources, preparing and presenting papers	30%

Contact

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