

THE BIOLOGICAL PROTECTION OF AGRICULTURAL CROPS (MASTER, 2nd year, Ist semester)

Credit value (ECTS): 5

Course category: Domain (Imposed)

Course holder: PhD. Mihai TALMACIU

Discipline objectives (course and practical works):

- Aims to provide up-to-date information to the master students on the biological methods of protection;
- It is taken into account the knowledge by the master students of their spread, description, biology, ecology and the way of their action;
- Pursues the knowledge and acquisition of the new biological methods of control as well as the practical possibilities of their application.

Contents (syllabus)

Course (chapters/subchapters)
Introductory notions: definition, history, advantages, disadvantages, methods, etc.
Principles and methods of the biological combating
Use of the entomopathogenic microorganisms: generalities
The use of entomopathogenic viruses
The use of entomopathogenic bacteria
The use of entomopathogenic fungi
The use of zoophages: generalities
The use of parasites
The use of predators
Self-inflicted fighting
The hormonal fight

Practical works
The principles and the methods of biological control
Recognition of the parasites in the laboratory
Recognition of the predators in the laboratory
Identification of the parasites species on the biological material in the field
Identification of the predator species from field at the biological material

Bibliography

1. Filipescu C., Georgescu T., Tălmăciu M., 1989 - Practical works of Entomology. The general part. Internal use, Iasi.
2. Georgescu T., Tălmăciu M., 1994 - Protection of vine and fruit plants. Entomology course. Special part and combat technologies. Internal use, Iasi.
3. Perju T., 1995 - Agricultural entomology, component of the integrated protection of agrosystems. Ceres Publishing House, Bucharest.

4. Talmaciu M., Georgescu T., Badeanu Marinela, 1998 - Entomology. The special part. Internal use, Iasi.

5. Talmaciu M., 2002 - Plant protection - Entomology, course, internal use, U.S.A.M.V. Iasi.

Evaluation

Evaluation form	Evaluation Methods	Percentage of the final grade
Course	Knowledge and understanding of the notions included in the course	70%
Seminar / lp	Practice using information sources, preparing and presenting papers	30%

Contact

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