

The protection of plants in organic agriculture (YEAR I, SEMESTER II)

Credit value (ECTS) 4

Course category

Domain (Imposed)

Course holder:

Conf.dr. Nela Tălmăciu

Discipline objectives (course and practical works)

- Department of The protection of plants in organic agriculture, along with other specialized disciplines contributes to theoretical and practical training of future engineers.
- Formation knowledge base for understanding and learning basic concepts specific to Agronomy; while discipline by the students aims to identify new biological methods to combat and practical possibilities for their application
- It seeks to provide students from Masters to-date information about biological protection methods
- It is contemplated MA students knowledge of the spread, description, biology, ecology and their mode of action.
- Follow the the knowledge and the assimilation of certain new biological methods of combating and practical possibilities for their application.

Contents (syllabus)

Course (chapters/subchapters)
CAP.1. Introduction : definition, history, advantages, disadvantages, methods etc..
CAP.2. The principles and methods of the biological control
CAP.3. The use of entomopathogenic microorganisms: general information
CAP.4. The use of entomopathogenic viruses.
CAP.5. The use of entomopathogenic bacteria.
CAP.6. The use of entomopathogenic mushrooms
CAP. 7. The use useful fauna: general information.
CAP. 8. The use of parasites.
CAP. 9. The use of predators.
CAP. 10. The method of control pest by sterilization.
CAP. 11. The pest control using the hormonal substances.

Practical works
The principles and methods of the biological control
The recognition of parasites in the laboratory
The recognition of of predators in the laboratory
The identification by the biologic material in the field of parasites species
The identification by the biologic material in field of species of the predators

Bibliography

1. M. Barnea, C. Papadopol 1975 - Pollution and the Environment, Scientific and encyclopedic Publishing
2. C. Cotiga, 2008 - Ecology and ecosystem protection. Sitech Publishing Perju T., 1995 - Agricultural entomology, integrated agro-protection component. Publisher Ceres, Bucharest.
3. Ionescu Al., Plotoagă Gabriela, 1986 - Ecology and ecosystem protection.
4. V.Iordache, Florinela Ardelean, 2007 Ecology and the Environment. Publisher MatrixRom
5. M. Talmaciu 2003 - Plant Protection - Entomology. Publisher "Ion Ionescu de la Brad" Iasi
6. I. Rosca, I. Oltean, I. Mitrea, M. Talmaciu, Petanec D., H. Bunescu, Rada Istrate, Talmaciu Nela, C. Stan, Lavinia Micu 2011 -Tratat entomology general and special Alpha MDN Publisher , Buzau.

Evaluation

Evaluation form	Evaluation Methods	Percentage of the final grade
Written examination	Knowledge and understanding of the concepts contained in progress	70%
Seminar / laboratory	Practicing the use of sources of information, preparation and presentation of reports	30%

Contact person

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