

THE PROTECTION OF ECOLOGICAL HORTICULTURAL CROPS

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

Credit value (ECTS): 8

Course category: Further study

Course holder: PhD. Mihai TALMACIU

Discipline objectives (course and practical works):

The Horticultural Protection Course, taught at the Master's Degree in Organic Horticulture, aims to provide students with up-to-date information on the theoretical and practical methods used in the ecological control of pests and pathogens in horticultural crops. Also, depending on the situation, the possibilities are presented for some of these methods to be used as widely as possible in the ecological control of pests and pathogens.

Contents (syllabus)

Course (chapters/subchapters)
Ecological weed control in horticultural crops
Controversial pesticides on their usefulness and toxicity in organic farming
Problems caused by pests and pathogens in organic vegetable growing and combating them by using different methods: preventive methods, agrophytotechnical methods, physical-mechanical methods, biological methods
Ecological protection of fruit plantations in organic farming. Prevention and control measures. Agrophytotechnical methods, physical and mechanical methods, biological methods.
Ecological systems for preventing and combating the pathogens and the pests in vineyards lands.

Practical works
Measures to prevent and ecologically control pathogens and pests in vegetable crops: agrophytotechnical methods, physical-mechanical methods, biological methods.
Measures to prevent and ecologically control pathogens and pests in fruit plantations (apple, pear, plum, cherry, sour cherry, apricot, etc.): agrophytotechnical methods, physical-mechanical methods, biological methods.
Measures to prevent and ecologically control pathogens and pests in the vineyards lands: agrophytotechnical methods, physical-mechanical methods, biological methods.
Measures to prevent and ecologically control pathogens and pests in nurseries: agrophytotechnical methods, physical-mechanical methods, biological methods.

Bibliography

1. T. Baicu, A. Savescu, 1978 - Integrated control in plant protection. Ceres Publishing House Bucharest

2. T. Baicu, A. Savescu, 1986 - Integrated control systems for diseases and pests on crops. Ceres Publishing House Bucharest
3. Perju Teodosie, Pall Olga; Brudea Valentin; Ignătescu Ion; Mateiaș Mihai; Ittu Mariana 1993 - Integrated protection of legumes against pests and pathogens. Ceres Bucharest Publishing House, page 242; ISBN 973-40-0252-X
4. Teodosie Perju, 2002 - Pests of fruiting bodies and integrated control measures. Pres-Cluj-Napoca Academic Publishing House
5. Tălmăciu M., Georgescu T., Badeanu Marinela, 1998 - Entomology. The special part. Internal use, Iasi
6. Tălmăciu M., 2005 / Agricultural Entomology-Ion Ionescu Publishing House from Brad Iași ISBN 973-7921-63-1.

Evaluation

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

Contact

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