

## **BIOLOGICAL PROTECTION OF AGRICULTURAL CULTURES (Master –Plants Protection., Ith Year of study, Ith Semester)**

**Credit value (ECTS): 5**

**Course category: mandatory**

**Course holder:**

Phd.. T LMACIU MIHAI

### **Discipline objectives (course and practical works)**

- It aims to provide the master's students with up-to-date information on biological protection methods;
- The master's knowledge of the spread, description, biology, ecology and their mode of action is considered;
- It seeks the knowledge and learning of new biological methods of control as well as the practical possibilities of their application.

### **Contents (syllabus)**

<b>Course (chapters/subchapters)</b>
1. Introduction: definition, history, advantages, disadvantages, methods, etc.
2. Principles and methods of biological control
3. Use of entomopathogenic microorganisms: generalities
4. Use of entomopathogenic viruses
5. Use of entomopathogenic bacteria
6. Use of entomopathogenic fungi
7. Use of zoophages: generalities
8. Use of parasites
9. Use of predators
10. Self-fight
11. Hormonal struggle

<b>Practical works</b>
1. Principles and methods of biological control
2. Recognition of parasites in the laboratory
3. Recognition of predators in the laboratory
4. Identification of parasitic species from biological field material
5. Identification of predatory species from biological field material

### **Bibliography**

1. Filipescu C., Georgescu T., T Imaciu M., 1989 - Practical works of Entomology. The general part. Internal use, Iasi.
2. Georgescu T., T Imaciu M., 1994 - Protection of vine and apple plants. Entomology course. Special Part and Combat Technologies. Internal use, Iasi.
3. Perju T., 1995 - Agricultural entomology, component of integrated protection of agrosystems. Ceres Publishing House, Bucharest.
4. T Imaciu 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**

<b>Evaluation form</b>	<b>Evaluation Methods</b>	<b>Percentage of the final grade</b>
	Exam: Test with various items	70%

Course	presence	
Practical works	Oral, case study, investigation, evaluation during the semesterl	30%

**Contact**

Phd. T LMACIU MIHAI

Faculty of Horticulture - USAMV Ia i

Aleea Mihail Sadoveanu nr. 3, Ia i, 700490, Romania

Tel: 0040232407442., fax: 0040 232 219175

E-mail: [mtalmaciu@uaiasi.ro](mailto:mtalmaciu@uaiasi.ro)