Course: PLANT PROTECTION TECHNOLOGY		
Semester	ECTS	Teaching hours
III	5	2L+2P

Master academic studies: Plant protection (4 semesters, 120 ECTS)

Course description

Introducing students to Integrated Pest Management programs for different agricultural crops, the application of plant protection products, as well as non-pesticide measures. The aim of the course is to acquire knowledge about the importance of certain control measures in the appropriate phenophases of crop development. In addition to the use of plant protection products in the plant protection from harmful organisms, the possibilities of agrotechnical and other measures in the protection of cultivated plants from diseases, pests and weeds will be presented.

Learning outcomes

After passing the exam, the student will acquire knowledge that allows him to:

- Select the most appropriate measures of integrated plant protection and assess the importance of their implementation,
- Organize protection of fruit trees and grapevine,
- Organizes protection of vegetables and field crops,
- Apply adequate protection measures in organic production.

Lecturer: Prof. Nedeljko Latinović, PhD

Learning methods: Lectures, Laboratory practice, Field work, Seminars

Weekly class schedule

I week	Lectures	Introduction, Integrated Pest Management
	Practicum	Introduction to Integrated Pest Management programs for different agricultural crops
II week	Lectures	Forecasting of diseases and pests
	Practicum	Introduction to the possibilities of forecasting the occurrence of harmful organisms
III week	Lectures	Development of a program for the pome fruit protection
	Practicum	Data processing and protection measures of fruit trees (practical application)
IV week	Lectures	Development of a program for the stone fruit protection
	Practicum	Field exercises
V week	Lectures	Development of a program for the nut trees protection
	Practicum	Data processing and protection measures of fruit trees (practical application)
VI week	Lectures	Development of a program for the small fruit protection
	Practicum	Data processing and protection measures (practical application)
VII week	Lectures	Development of a grapevine protection program
	Practicum	Data processing and grapevine protection measures (practical application)
VIII week	Lectures	Development of a program for the protection of subtropical fruit trees
	Practicum	Data processing and fruit protection measures (practical application)
IX week	Lectures	Development of potato protection program
	Practicum	Field exercises
X week	Lectures	Development of a program for the protection of field crops
	Practicum	Protection measures and organization of crop treatment
XI week	Lectures	Development of outdoor vegetable protection programs
	Practicum	Protection measures and organization of vegetable treatment
XII week	Lectures	Development of vegetable protection programs in open and protected areas
	Practicum	Protection measures and organization of vegetable treatment
XIII week	Lectures	Development of a program for the protection of vegetables
	Practicum	Field exercises
XIV week	Lectures	Development of a program for the protection of small crops
	Practicum	Protection measures (practical application)
XV week	Lectures	Development of protection programs in organic agriculture

	Practicum	Field exercises

Literatura*:* Strand, L.L. (1999): Integrated Pest Management for Stone Fruits. IPM handbook published by University of California; Ohlendorf, B.L.P. (1999): Integrated Pest Management for Apples and Pears (sec. ed.). IPM handbook published by University of California; Finckh, M. R., van Bruggen, A.H.C., Tamm, L. (2015): Plant Diseases and Their Management in Organic Agriculture; Wilcox, W.F. Gubler, W.D., Uyemoto, J. K. (2015): Compendium of Grape Diseases, Disorders, and Pests. American Phytopathological Society; Material from Internet; Lectures presentation.

Forms of knowledge assessment and grading:

Activities in lectures and exercises: 5 points
Seminar paper: 5 points
Two colloquia: 40 points
Final exam: 50 points
A passing grade is obtained if at least 50 points are accumulated cumulatively

Grading	A	B	C	D	E
Number of points	90-100	80-89	70-79	60-69	50-59

Data prepared by: Prof. dr Nedeljko Latinović