

Course: Fruit tree and grapevine diseases		
Semester	ECTS	Teaching hours
II	6	3L + 2P

Master academic studies: Plant production – Plant protection

Course description

The aim of the course is to enable students to adopt scientific knowledge about the most important fruit tree and grapevine diseases, their distribution and economic importance, main symptoms, causal agents, pathogenesis and spread of the disease, in relation with possible protection measures.

Learning outcomes

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

- define the role and significance of diseases in the cultivation of fruit trees and vine
- recognize symptoms of the most significant diseases of fruit trees and grapevine
- describe the disease distribution and harmfulness, symptoms, pathogen characteristics, life cycle development and possible control measures in the most significant diseases of pome and stone fruits, berries, nuts, subtropical fruits, diseases caused by polifagous pathogens and diseases of grapevine
- choose the most adequate control measures of pathogens in fruit and vineyard production.

Lecturer: Prof. Jelena Latinović, PhD

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

Weekly class schedule

I week	Lectures	Introduction to fruit tree and grapevine diseases
	Practicum	Lab exercise: basic characteristics of fruit and grape pathogens
II week	Lectures	Introduction to fruit tree and grapevine diseases
	Practicum	Lab exercise: basic characteristics of fruit and grape pathogens
III week	Lectures	Pome fruit diseases
	Practicum	Recognizing the symptoms of diseased plants
IV week	Lectures	Pome fruit diseases
	Practicum	Observation on herbarized material
V week	Lectures	Pome fruit diseases, Stone fruit diseases
	Practicum	Laboratory exercises: microscopy
VI week	Lectures	Stone fruit diseases
	Practicum	Recognizing the symptoms of diseased plants
VII week	Lectures	Stone fruit diseases
	Practicum	Observation on herbarized material
VIII week	Lectures	Stone fruit diseases
	Practicum	Laboratory exercises: microscopy
IX week	Lectures	Small fruit diseases
	Practicum	Recognizing the symptoms of diseased plants
X week	Lectures	Small fruit diseases
	Practicum	Observation on herbarized material
XI week	Lectures	Nut tree diseases
	Practicum	Laboratory exercises: microscopy
XII week	Lectures	Grapevine diseases
	Practicum	Field practice
XIII week	Lectures	Grapevine diseases; Diseases of subtropical plants
	Practicum	Sample processing and microscopy
XIV week	Lectures	Diseases of subtropical plants
	Practicum	Recognizing the symptoms of diseased plants
XV week	Lectures	Diseases caused by polifagous pathogens
	Practicum	Observation on herbarized material

Literature: Compendium of pome fruit diseases, Compendium of stone fruit diseases, Compendium of small fruit diseases, Compendium of grapevine diseases. American Phytopathological Society, USA. Material from Internet; Lecture presentations.

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 Jelena Latinović