

Study Programme: Fruit science, viticulture and horticulture (module Fruit science and viticulture)			
Course Unit Title: Diseases and pests of fruit and vine			
Course Unit Code: 19.VI1002			
Name of Lecturer(s): Mila Grahovac, Aleksandra Popović			
Type and Level of Studies: undergraduate academic studies			
Course Status (compulsory/elective): compulsory			
Semester (winter/summer): winter			
Language of instruction: Serbian			
Mode of course unit delivery (face-to-face/distance learning): face-to-face			
Number of ECTS Allocated: 5			
Prerequisites: -			
Course Aims: Mastering basic knowledge on plant diseases and pests as well as plant protection strategies in fruit and vine growing.			
Learning Outcomes: The obtained knowledge is a base for disease/pest diagnosis/detection, for application and management of plant protection measures in fruit and vine growing, with an aim to reduce possible losses as well as application of synthetic chemical plant protection products.			
Syllabus:			
<i>Theory</i>			
General/Introductory part: Significance of plant diseases and pests in fruit and vine production. Disease causal agents (basic characteristics of phytopathogenic fungi, bacteria, viruses, and phytoplasmas).			
Special part: Economically most significant diseases and pests of pome, stone, berry and nut fruits, and vines (economic significance, distribution, symptoms, morphological traits, biology and protection measures).			
<i>Practice</i>			
Economically most significant diseases and pests of pome, stone, berry and nut fruits, and vines (symptoms/damages on plants, morphological traits and biology; phytopathogenic fungi – isolation and cultivation properties, microscopic observations of vegetative and reproductive structures; phytopathogenic bacteria – isolation, cultivation and biochemical properties).			
Required Reading:			
Almaši R., Injac M., Almaši Š. (2004): Štetni i korisni organizmi jabučastih voćaka. Aleks print, Novi Sad			
Kolektiv autora (): Štetočine u biljnoj proizvodnji. University of Novi Sad, Faculty of Agriculture.			
Ivanović Milan, Ivanović Mirko (2017): Bolesti voćaka i vinove loze. University of Belgrade, Faculty of Agriculture.			
Weekly Contact Hours: 6	Lectures: 4	Practical work: 2	
Teaching Methods:			
Lectures – Visual presentation methods using computer and other didactic tools (presentations, illustrations) in classrooms.			
Practical classes – visual observing of pest and disease symptoms on plants, laboratory methods for phytopathogenic microorganisms and pests identification (binocular, microscope).			
Knowledge Assessment (maximum of 100 points):			
Pre-exam obligations	Points	Final exam	Points
Active class	5	written exam	

participation			
Practical work	5	oral exam	70
Preliminary exam(s)	20	
Seminar(s)			
<p>The methods of knowledge assessment may differ; the table presents only some of the options: written exam, oral exam, project presentation, seminars, etc.</p>			