

<b>Study Programme: PHYTOMEDICINE</b>			
<b>Course Unit Title: GENERAL PHYTOPATHOLOGY</b>			
<b>Course Unit Code: 19.FTM012</b>			
<b>Name of Lecturer(s): Prof. Vera Stojšin, PhD, Assoc. Prof. Dragana Budakov, PhD</b>			
<b>Type and Level of Studies: UNDERGRADUATE ACADEMIC STUDIES</b>			
<b>Course Status (compulsory/elective): compulsory</b>			
<b>Semester (winter/summer): summer</b>			
<b>Language of instruction: Serbian/English</b>			
<b>Mode of course unit delivery (face-to-face/distance learning): face-to-face</b>			
<b>Number of ECTS Allocated: 6</b>			
<b>Prerequisites: Microbiology</b>			
<b>Course Aims:</b>			
<b>Achievement of basic knowledge and techniques in the field of plant pathology.</b>			
<b>Learning Outcomes:</b>			
<b>The training of students for further education in professions considering plant health.</b>			
<b>Syllabus:</b>			
<i>Theory</i>			
Concept and definition of plant diseases, the subject of general phytopathology, historical development of plant pathology. Damages caused by plant diseases, division of plant diseases depending on the type of causal agent. Parasitic diseases: basic concepts of parasites, types of parasites and parasitic diseases, pathogenicity, virulence, pathogenesis, pathogenicity testing. The basic characteristics of the causal agents of plant diseases, parasites: fungi-like organisms, fungi, bacteria and viruses, phytoplasmas and vascular bacteria, semi-parasitic and parasitic plants. Mycotoxicogenic fungi. Pathogenesis, ecology, epidemiology of plant diseases. Fundamentals of phytopathology (cytological, morphological, biochemical, physiological and genetic changes caused by plant pathogens). Fundamentals of general prophylaxis and treatment (plant quarantine, the impact of cultivation technology, mechanical and physical measures, biological measures, plant resistance to diseases and chemical measures).			
<i>Practice</i>			
General techniques of laboratory work with phytopathogenic microorganisms. Identification of pathogens, the detection of pathogens. Types of symptoms of plant diseases caused by: fungi-like organisms, fungi, bacteria and viruses, phytoplasmas and vascular bacteria, semi-parasitic and parasitic plants. Fundamentals of morphology and systematics of the causal agents of plant diseases.			
<b>Required Reading:</b> Balaž, F., Balaž, J., Tošić, M., Stojšin, V., Bagi, F. (2010): Phytopathology. Diseases of crops and vegetables (in Serbian). Faculty of Agriculture Novi Sad.			
Babović, M. (2003): Basics of plant pathology (in Serbian). University of Belgrade, Faculty of Agriculture			
Marić, A. (1991): General plant pathology (in Serbian). Novi Sad.			
Stojšin, V., Bagi, F., Balaž, F. (2008): Plant pathology textbook- mycosis and pseudomycoses of field and vegetable crops (in Serbian). Faculty of Agriculture Novi Sad.			
Vico, I. (2018): Phytopathology (in Serbian). University of Belgrade, Faculty of Agriculture, Zemun.			
Study materials will be provided in English on request.			
<b>Weekly Contact Hours:</b>	<b>Lectures:</b> 4x15=60	<b>Practical work:</b> 2x15=30	
<b>Teaching Methods:</b>			
<b>Knowledge Assessment (maximum of 100 points):</b>			
<b>Pre-exam obligations</b>	points	<b>Final exam</b>	points
Active class participation		written exam	60

Practical work		oral exam	
Preliminary exam(s)	30	.....	
Seminar(s)	10		
The methods of knowledge assessment may differ; the table presents only some of the options: written exam, oral exam, project presentation, seminars, etc.			