

Study Programme: Phytomedicine			
Course Unit Title: <i>General Plant Pathology</i>			
Course Unit Code: 19.FTM012			
Name of Lecturer(s): Prof. Dragana Budakov, Teaching Assistant Tatjana Dudas			
Type and Level of Studies: Undergraduate academic studies			
Course Status (compulsory/elective): Compulsory			
Semester (winter/summer): summer			
Language of instruction: Serbian/English			
Mode of course unit delivery (face-to-face/distance learning): face-to-face			
Number of ECTS Allocated: 6			
Prerequisites: Microbiology			
Course Aims: Acquiring fundamental knowledge and techniques in the field of plant pathology			
Learning Outcomes: Enabling students to pursue further education in specialized phytopathology courses.			
Syllabus:			
<p><i>Theory</i> – Plant disease concept and definitions; scope of general phytopathology; historical development. Economic impact of plant diseases; classification of plant diseases based on the type of causal agent. Parasitic diseases: basic concepts of parasites; types of parasites and parasitic diseases; pathogenicity, virulence, pathogenesis; demonstration of pathogenicity. Key characteristics of plant pathogenic organisms: oomycetes and fungi, bacteria, viruses, phytoplasmas, vascular bacteria, hemiparasitic and parasitic flowering plants. Mycotoxigenic fungi. Pathogenesis, ecology, and epidemiology of plant diseases. Fundamentals of physiopathology (cytological, morphological, biochemical, physiological, and genetic changes induced by plant pathogens). Basics of general prophylaxis and therapy: plant quarantine, influence of agricultural practices, mechanical and physical measures, biological measures, plant resistance to diseases, and chemical control measures.</p> <p><i>Practice</i> - General laboratory techniques for working with phytopathogenic microorganisms. Identification of pathogens and methods for demonstrating pathogenicity. Types of symptoms of plant diseases caused by phytopathogenic oomycetes and fungi, bacteria, viruses, phytoplasmas, vascular bacteria, and hemiparasitic and parasitic flowering plants. Fundamentals of the morphology and systematics of plant disease agents.</p>			
Required Reading:			
Balaž, F., Balaž, J., Tošić, M., Stojšin, V., Bagi, F. (2010): <i>Phytopathology. Diseases of crops and vegetables</i> (in Serbian). Faculty of Agriculture Novi Sad.			
Babović, M. (2003): <i>Basics of plant pathology</i> (in Serbian). University of Belgrade, Faculty of Agriculture			
Marić, A. (1991): <i>General plant pathology</i> (in Serbian). Novi Sad.			
Stojšin, V., Bagi, F., Balaž, F. (2008): <i>Plant pathology textbook- mycosis and pseudomycoses of field and vegetable crops</i> (in Serbian). Faculty of Agriculture Novi Sad.			
Vico, I. (2018): <i>Phytopathology</i> (in Serbian). University of Belgrade, Faculty of Agriculture, Zemun.			
<i>Study materials will be provided in English on request.</i>			
Weekly Contact Hours: 6	Lectures: 4	Practical work: 2	
Teaching Methods:			
Verbal methods (oral presentation and discussion), visual methods (demonstrations, presentations, illustrations), practical methods (laboratory and experimental work). Consultations. Seminars given by students.			
Knowledge Assessment (maximum of 100 points):			
Pre-exam obligations	points	Final exam	points
Active class participation	10	written exam	60
Practical work		oral exam	
Preliminary exam(s)	30	
The methods of knowledge assessment may differ; the table presents only some of the options: written exam, oral exam, project presentation, seminars, etc.			