Biotechnical Faculty / PLANT PROTECTION / PLANT MYCOLOGY

Course:	PLANT MYCOLOGY			
Course ID	**Course status**	**Semester**	**ECTS credits**	**Lessons** (Lessons+Exercises+Laboratory)
12362	Mandatory	1	4	2+0+1
Programs	PLANT PROTECTION			
Prerequisites	None			
Aims	The aim of the course is to familiarize students with the most important mycoses and pseudomycoses of cultivated plants, their economic significance, disease symptoms, pathogen biology, pathogen development cycle, ways of spreading, ecological conditions for development of the diseases and adequate control measures.			
Learning outcomes	After the student passes this exam, he/she will be able to: - recognize the symptoms of the most significant mycosis and pseudomycosis of agricultural crops - describe the basic characteristics of phytopathogenic fungi and pseudofungi - explain the factors that influence the spread of phytopathogenic fungi and pseudofungi in nature, as well as the ways of achieving plant infections - lists the combat measures that can be applied in the protection of agricultural crops against the most significant mycoses and pseudomycoses - explain the identification methods of phytopathogenic fungi and pseudofungi.			
Lecturer / Teaching assistant	Full Professor Jelena Latinović, PhD - teacher / Bogoljub Kandić, MSc - assistant			
Methodology	Lectures, exercises, individual work, consultations, colloquiums and final exam			
Plan and program of work				
Preparing week	Preparation and registration of the semester			
I week lectures	Introduction, significance and causes of plant diseases			
I week exercises	Acquaintance with the work in a mycological laboratory - equipment			
II week lectures	Introduction to plant mycoses and pseudomycoses. Definition and importance of fungi and pseudofungi.			
II week exercises	Acquaintance with the work in a mycological laboratory - utensils, nutrient media			
III week lectures	The place of fungi and pseudofungi in the living world. Reproduction and nutrition.			
III week exercises	Acquaintance with the work in a mycological laboratory - microscope and microscopy			
IV week lectures	Classification of fungi and pseudofungi. Symptomatology, Pathogenesis			
IV week exercises	Recognizing the symptoms of diseased plants			
V week lectures	Epidemiology, possibility of disease forecasting . Basic control measures.			
V week exercises	Recognizing the symptoms of diseased plants			
VI week lectures	Mycoses caused by fungi of the kingdom Fungi - division: Chytridiomycota			
VI week exercises	Examination of infected plant material samples			
VII week lectures	Mycoses caused by the fungi of Zygomycota division			
VII week exercises	Laboratory exercises: microscopy			
VIII week lectures	Mycoses caused by the fungi of Ascomycota division (Archiascomycetes and Erysiphales)			
VIII week exercises	Examination of herbarized plant material and microscopy			
IX week lectures	Mycoses caused by the fungi of Ascomycota division (Pyrenomycetes, Loculoascomycetes, Discomycetes)			
IX week exercises	Laboratory exercises: microscopy			
X week lectures	Mycoses caused by the fungi of Deuteromycota division			
X week exercises	Laboratory exercises: microscopy			
XI week lectures	Mycoses caused by the fungi of Deuteromycota division			
XI week exercises	Laboratory exercises: microscopy			
XII week lectures	Mycoses caused by the fungi of Deuteromycota division			
XII week exercises	Field exercises			

XIII week lectures	Mycoses caused by the fungi of Basidiomycota division
XIII week exercises	Sample processing and microscopy
XIV week lectures	Mycoses caused by the fungi of Basidiomycota division. Plant diseases caused by pseudofungi of Protozoa kingdom, Myxomycota division
XIV week exercises	Basic methods in the identification of phytopathogenic fungi and pseudofungi
XV week lectures	Plant diseases caused by pseudofungi of Chromista kingdom, Oomycota division
XV week exercises	Examination of herbarized plant material and microscopy
Student workload	Weekly: 4 credits x 40/30= 5 hours and 20 minutes Structure: 2 hours of lectures, 1 hour of exercises, 2 hours and 20 minutes of independent work including consultations. During the semester: Classes and final exam: (5 hours and 20 minutes) x 16 = 85 hours and 20 minutes. Necessary preparations before the beginning of the semester (administration, enrollment and verification): 2x (5 hours and 20 minutes) = 10 hours and 40 minutes. Total workload for the course: 4x 30 = 120 hours Additional work to prepare the corrective final exam, including the exam: from 0 - 24 hours. Structure: 85 hours and 20 minutes (teaching) + 10 hours and 40 minutes. (preparation) + 24 hours (additional work)

Per week	**Per semester**
4 credits x 40/30=5 hours and 20 minuts 2 sat(a) theoretical classes 1 sat(a) practical classes 0 excercises **2 hour(s) i 20 minuts** of independent work, including consultations	Classes and final exam: **5 hour(s) i 20 minuts x 16 =85 hour(s) i 20 minuts** Necessary preparation before the beginning of the semester (administration, registration, certification): **5 hour(s) i 20 minuts x 2 =10 hour(s) i 40 minuts** Total workload for the subject: **4 x 30=120 hour(s)** Additional work for exam preparation in the preparing exam period, including taking the remedial exam from 0 to 30 hours (remaining time from the first two items to the total load for the item) **24 hour(s) i 0 minuts** Workload structure: **85 hour(s) i 20 minuts (cources), 10 hour(s) i 40 minuts (preparation), 24 hour(s) i 0 minuts (additional work)**
Student obligations	Students are required to attend classes, complete all laboratory and field exercises, do a seminar paper, both colloquiums and final exam.
Consultations	In agreement with the students
Literature	1. Ivanović, M.; Ivanović, D. (2001): Mycoses and pseudomycoses of plants, University of Belgrade, Agricultural Faculty, Belgrade; 2. Agrios, G.N. (1997): Plant Pathology. Academic Press, USA. For certain chapters, students will be provided with printed material.
Examination methods	Activity in lectures and exercises_____ 5 points Seminar work_____ 5 points Two colloquiums of 20 points each _____ 40 points Final exam_____ 50 points A passing grade is obtained if at least 50 points are accumulated Grade: number of points: A (≥ 90 to 100 points); B (≥ 80 to < 90); C (≥ 70 to < 80); D (≥ 60 to < 70); E (≥ 50 to < 60); F < of 50
Special remarks	
Comment	

Grade:	F	E	D	C	B	A
Number of points	less than 50 points	greater than or equal to 50 points and less than 60 points	greater than or equal to 60 points and less than 70 points	greater than or equal to 70 points and less than 80 points	greater than or equal to 80 points and less than 90 points	greater than or equal to 90 points