

Biotechnical Faculty / FOOD SAFETY / PESTICIDES

Course:	PESTICIDES			
Course ID	Course status	Semester	ECTS credits	Lessons (Lessons+Exercises+Laboratory)
12398	Mandatory	2	5	2+2+0
Programs	FOOD SAFETY			
Prerequisites	None			
Aims	Acquaintance of students with basic terms about pesticides, as well as issues related to pesticide exposure of people and the environment. Also, familiarization with pesticide chemical groups and active substances and their effects on human health and the environment. Students will be familiar with pesticide residues and legislation in the field of pesticides.			
Learning outcomes	After passing the exam, the student will acquire knowledge that allows him to: - Defines different groups of pesticides - Knows the physical and chemical properties of pesticides and the formulations that are applied - Describes the mechanisms of action of pesticides and knows all the basic groups of pesticides - Knows the basic laws and regulations in the field of pesticide application in the European Union and Montenegro - Choose protective equipment for working with pesticides and know their impact on human health and the environment - Get to know the importance of pesticide residues in food and the environment - Implements measures to prevent negative consequences of pesticide application			
Lecturer / Teaching assistant	Prof. dr Nedeljko Latinović Mr Bogoljub Kandić			
Methodology	Lectures, exercises (laboratory and field), independent work and consultations.			
Plan and program of work				
Preparing week	Preparation and registration of the semester			
I week lectures	Pesticides and agricultural development			
I week exercises	Pesticides and agricultural development			
II week lectures	Examination of pesticides for the purpose of their registration			
II week exercises	Examination of pesticides for the purpose of their registration			
III week lectures	Classification and nomenclature of pesticides, physical and chemical properties of pesticides.			
III week exercises	Classification and nomenclature of pesticides, physical and chemical properties of pesticides.			
IV week lectures	Forms of pesticide formulation, Mechanism of action of pesticides.			
IV week exercises	Forms of pesticide formulation, Mechanism of action of pesticides.			
V week lectures	Application of pesticides			
V week exercises	Application of pesticides			
VI week lectures	Application of pesticides			
VI week exercises	Application of pesticides			
VII week lectures	Exposure of people working with pesticides			
VII week exercises	Exposure of people working with pesticides			
VIII week lectures	Exposure of people in accidental contact with pesticides			
VIII week exercises	Colloquium			
IX week lectures	Impact of pesticides on the environment			
IX week exercises	Impact of pesticides on the environment			
X week lectures	Plant protection products			
X week exercises	Plant protection products			
XI week lectures	Plant protection products			
XI week exercises	Plant protection products			
XII week lectures	Plant protection products and biocides			
XII week exercises	Biocides			

XIII week lectures	Legal bases related to the field of pesticides					
XIII week exercises	Legal bases related to the field of pesticides					
XIV week lectures	Residues in food					
XIV week exercises	Residues in food					
XV week lectures	The future of pesticide use					
XV week exercises	The future of pesticide use					
Student workload						
Per week			Per semester			
5 credits x 40/30=6 hours and 40 minuts 2 sat(a) theoretical classes 0 sat(a) practical classes 2 excercises 2 hour(s) i 40 minuts of independent work, including consultations			Classes and final exam: 6 hour(s) i 40 minuts x 16 =106 hour(s) i 40 minuts Necessary preparation before the beginning of the semester (administration, registration, certification): 6 hour(s) i 40 minuts x 2 =13 hour(s) i 20 minuts Total workload for the subject: 5 x 30=150 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) 30 hour(s) i 0 minuts Workload structure: 106 hour(s) i 40 minuts (courses), 13 hour(s) i 20 minuts (preparation), 30 hour(s) i 0 minuts (additional work)			
Student obligations			Students are required to attend classes, do seminar work, do all laboratory and field exercises and do colloquium.			
Consultations			After the lectures			
Literature			Graham Matthews (2016): Pesticides: Health, Safety and the Environment, 2nd Edition. Wiley Blackwell.; C. MacBean (2012): A World Compendium, The Pesticide Manual. Sixteenth Edition. BCPC. Students will be provided with printed material for certain areas.			
Examination methods			Activities in lectures and exercises: 5 points Seminar paper: 5 points Colloquium: 40 points Final exam: 50 points			
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