

Biotechnical Faculty / PLANT PROTECTION / PESTS OF FRUITS AND GRAPEVINE

Course:	PESTS OF FRUITS AND GRAPEVINE			
Course ID	Course status	Semester	ECTS credits	Lessons (Lessons+Exercises+Laboratory)
12364	Mandatory	2	6	3+0+2
Programs	PLANT PROTECTION			
Prerequisites	NO			
Aims	The aim of the course is that students enlarge knowledge regarding protection of fruits and grapevine against pests (insects, rodents)..., according principles of integrated pest management and biological control measures			
Learning outcomes	After passing the course, the student will be able to: to detect symptoms of attack caused economically most important pests different plant organs; to make difference between harmful and beneficial insects on fruits and grapevine; to match symptoms, damages and development stages of insects to establish intensity of attack caused by pests; to establish intensity of attack; to make decision about control measures of pests according to principles of integrated pest management and biological control measure.			
Lecturer / Teaching assistant	Prof. Dr. Snježana Hrnčić			
Methodology	Lectures, Exercises, Individual work, Consultations, Seminar essay, Test, Colloquiums, Final exam			
Plan and program of work				
Preparing week	Preparation and registration of the semester			
I week lectures	Polyphagous pests.			
I week exercises	Laboratory exercises: polyphagous pests.			
II week lectures	Polyphagous pests			
II week exercises	Laboratory exercises: polyphagous pests			
III week lectures	Polyphagous pests			
III week exercises	Field exercises.			
IV week lectures	Apple pests			
IV week exercises	Laboratory exercises: samples processing			
V week lectures	Apple and pear pests.			
V week exercises	Laboratory exercises: samples processing.			
VI week lectures	Quince and plum pests.			
VI week exercises	Laboratory exercises: samples processing.			
VII week lectures	Plum pests. Peach and apricot pests			
VII week exercises	Laboratory exercises: samples processing.			
VIII week lectures	Cherry and sour cherry pests. Colloquium I.			
VIII week exercises	Field exercises.			
IX week lectures	Pests of nuts. Colloquium I.			
IX week exercises	Field exercises.			
X week lectures	Pests of soft fruits			
X week exercises	Laboratory exercises: samples processing.			
XI week lectures	Olive pests			
XI week exercises	Field exercises.			
XII week lectures	Olive pests. Citrus pests (aphids, whiteflies).			
XII week exercises	Laboratory exercises: samples processing			
XIII week lectures	Citrus pests.			
XIII week exercises	Field exercises.			

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XIV week lectures	Pests of grapevine. Colloquium II.					
XIV week exercises	Laboratory exercises: samples processing.					
XV week lectures	Pests of deciduous subtropical fruits. Correctional colloquium II					
XV week exercises	Test.					
Student workload						
Per week			Per semester			
6 credits x 40/30=8 hours and 0 minuts 3 sat(a) theoretical classes 2 sat(a) practical classes 0 excercises 3 hour(s) i 0 minuts of independent work, including consultations			Classes and final exam: 8 hour(s) i 0 minuts x 16 =128 hour(s) i 0 minuts Necessary preparation before the beginning of the semester (administration, registration, certification): 8 hour(s) i 0 minuts x 2 =16 hour(s) i 0 minuts Total workload for the subject: 6 x 30=180 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) 36 hour(s) i 0 minuts Workload structure: 128 hour(s) i 0 minuts (cources), 16 hour(s) i 0 minuts (preparation), 36 hour(s) i 0 minuts (additional work)			
Student obligations			Presence to lectures and exercises, presence and interactive work during laboratory and field exercises, to take test, seminar essay, colloquiums and final exam			
Consultations			On Thursdays in agreement with the students			
Literature			Students will be provided with printed material and presentations. Additional literature: 1.Dimić, N. .(1980): Štetočine vočki i vinove loze, Poljoprivredni fakultet Sarajevo, peto dopunjeno izdanje (1997). 2. Tanasijević, N.; Simova-Tošić, D. (1987): Posebna entomologija, Naučna knjiga Beograd; 3. Mijušković, M. (1999): Bolesti i štetočine suptropskih voćaka, Univerzitet Crne Gore. Biotehnički institut, Podgorica; 4. Maceljki, M. (1999): Poljoprivredna Entomologija, Zrinski, Čakovec; 5. Ciglar, I. (1998): Integrirana zaštita voćnjaka i vinograda. Zrinski, Čakovec			
Examination methods			Activity on lecturers and exercises 5 points; Test 5 points (oral); Seminar essay 5 points (written) Two colloquiums, 25 points each (total 50 points); Final exam 35 points . Pass degree ≥ 50 points. Grades and points: A (≥ 90 to 100 points); B (≥ 80 to < 90); C (≥ 70 to < 80); D (≥ 60 to < 70); E (≥ 50 to < 60); F < 50.			
Special remarks						
Comment			Field exercises are organized at the experimental field of the Biotechnical Faculty in Podgorica and Bar.			
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