

Biotechnical Faculty / PLANT PRODUCTION / ENTOMOLOGY

Course:	ENTOMOLOGY							
Course ID	Course status	Semester	ECTS credits	Lessons (Lessons+Exer cises+Laboratory)				
4805	Mandatory	5	6	4+0+1				
Programs	PLANT PRODUCTION							
Prerequisites	NO							
Aims	Program of this course offers wide basis for protection of cultivated plants and stored products against most important pests according principles of integrated pest management							
Learning outcomes	After passing the course, the student will be able to: describe basic morphology features of insects ; make difference of types of plant damages caused by insect feeding ; to determine insect development stages; to describe of life cycle of insects; to recognize the most important pest species according type of damage and morphology . to recognize damages caused by other pest species ; to advice appropriate control measures according primciples of integrated pest management.							
Lecturer / Teaching assistant	Prof. Dr. Snježana Hrnčić - teacher, Prof. Dr. Sanja Radonjić - assistant							
Methodology	Lectures, Exercises, Individual work, Consultations, Colloquiums. Final exam							
Plan and program of work								
Preparing week	Preparation and registration of the semester							
I week lectures	Introduction. Insect morphology: head, antennae, mouth parts, thorax, legs and wings.							
I week exercises	Laboratory exercises: Sistematic place of species which are segment of this course (insect body parts							
II week lectures	Insect morphology: abdomen, integument. Anatomy and physiology: glands, muscles, alimentary canal, gaseous exchange-tracheal system, circulatory and nervous system							
II week exercises	Laboratory exercises: mouth parts.							
III week lectures	Sensory organs. Reproductive system. Reproduction. Insect development.							
III week exercises	Laboratory exercises: Antennae. Thorax, Wings. Legs.							
IV week lectures	Ecology. Principles and methods of regulation of population abundance							
IV week exercises	Laboratory exercises: Integument. Anatomy							
V week lectures	Insect clasification. Orthoptera. Dermaptera							
V week exercises	Laboratory exercises: Vision. Insect reproductive system. Insect Metamorphosis							
VI week lectures	Isoptera, Blattodea, Thysanoptera							
VI week exercises	Laboratory exercises: Types of larvae.Types of pupae							
VII week lectures	Hemiptera: Heteroptera. Auchenorrincha							
VII week exercises	Laboratory exercises: Types of plant damages caused by insect feeding							
VIII week lectures	Hemiptera: Sternorrincha							
VIII week exercises	Laboratory exercises: Forecasting for the most important insect pests							
IX week lectures	Hymenoptera. Colloquiums I							
IX week exercises	Laboratory exercises: Conthrol metods against pests.							
X week lectures	Coleoptera. Correctional colloquium							
X week exercises	Field exercises.							
XI week lectures	Coleoptera.							
XI week exercises	Laboratory exercises: Samples processing.							
XII week lectures	Lepidoptera.							
XII week exercises	Test.							
XIII week lectures	Lepidoptera. Diptera.							
XIII week exercises	Field exercises.							
XIV week lectures	Other pests: mites, snails. Colloquium II.							



XIV week ex	kercises	Field exercises.							
XV week lee	ctures	Other pests: namatodes, birds, mammals. Correctional colloquium II.							
XV week ex	ercises	Laboratory exercises: Samples processing							
Student w	orkload								
Per week		Per semester							
6 credits x 40/30=8 hours and 0 minuts 4 sat(a) theoretical classes 1 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, colloquiums and final exam						
Consultations			On Mondays from 12 a.m to 1 p.m.						
Literature			1. Dimić, N.; Hrnčić, Snježana; Dautbašić, M. (2013): Opšta entomolgija, Šumarski fakultet Sarajevo, 2. Tanasijević, N.; Simova-Tošić, D. (1987): Opšta entomologija, Naučna knjiga Beograd; For special part students will be provided with printed material.						
Examination methods			Activity on lecturers and exercises 5 points Test 5 points (oral) Two colloquiums, 25 points each (total 50 points) Final exam 40 points.						
Special remarks									
Comment									
Grade:	F	E	D	С	В	А			
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			