

Study Programme: Phytomedicine			
Course Unit Title: Outlines of Entomology			
Course Unit Code: 19.FTM016			
Name of Lecturer(s): Aleksandra Ignjatović Čupina, full professor; Mihaela Kavran, Assistant Professor			
Type and Level of Studies: Undergraduate academic studies, first level			
Course Status (compulsory/elective): Compulsory			
Semester (winter/summer): Summer			
Language of instruction: Serbian, optionally English			
Mode of course unit delivery (face-to-face/distance learning): Face-to-face			
Number of ECTS Allocated: 6			
Prerequisites: None			
Course Aims: Acquiring knowledge of the insect biology, morphology, anatomy and physiology, with special attention given to the aspects of body structure and function that are important for the control of population density.			
Learning Outcomes: Acquiring the basics for further specialized courses of Entomology. Qualification for the participation in research teams dealing with insect studies and determination of control strategies.			
Syllabus:			
<i>Theory</i>			
Importance of entomology and study objectives. Insects and man. Integument, body segmentation and body regions of insects. Muscular system, locomotion, circulation system, feeding, digestive system, excretory system, respiratory system, nervous system, sensorial organs and perception, glands and secretion organs, reproductive system, reproduction of insects, embryonic and postembryonic development, metamorphosis, hormonal control of insect growth, molting and metamorphosis.			
<i>Practice</i>			
Based on individual work related to the detailed morphological and anatomical studies. Students are trained in dissection of external and internal insect organs. Studies of the insect integument structure, sutures and sclerites. Morphology of antennae, mouth parts, thorax, legs, wings and abdomen. Anatomy of digestive, circulatory, reproductive organs and nervous system.			
Required Reading:			
<ul style="list-style-type: none"> • Davies, R.G., (1988): Outlines of entomology. Chapman & Hall, London, UK. 408 pp • Gullan P.J. and Cranston P.S. (2010): The insects: an outline of entomology. 4th Ed. Wiley-Blackwell, Chichester, UK. 565 pp. • Chapman R.F. (1998): The insects: structure and function. 4th Ed. Cambridge University Press, UK. 770 pp. • Petrić D., Ignjatović Čupina A., Vuković M., Srdić Ž. (2007) Opšta entomologija-udžbenik, CD izdanje, Poljoprivredni fakultet, Univerzitet u Novom Sadu, 200 pp., (in Serbian) • Petrić D., Ignjatović Čupina A., Vuković M., Srdić Ž. (2007) Opšta entomologija-praktikum, CD izdanje, Poljoprivredni fakultet, Univerzitet u Novom Sadu, 50 pp. (in Serbian) • Štrbac, P. Čupina, A. (2000): Entomologija, poznavanje, praćenje, sakupljanje i suzbijanje štetnih insekata. Novi Sad, Univerzitet u Novom Sadu, Poljoprivredni fakultet. 310 p. (in Serbian) 			
Weekly Contact Hours: 6	Lectures: 4	Practical work: 2	
Teaching Methods:			
The lessons and preparation for tests are performed by the use of modern teaching tools. Check of theoretical knowledge includes 9 tests related to study units, 2 tests which require the combining of acquired knowledge and 1 final test. Individual work by use of the binocular/microscope and dissection tools. Check of practical knowledge. Consultations related to theoretical/ practical lessons and preparation of seminars, research work and projects.			
Knowledge Assessment (maximum of 100 points):			
Pre-exam obligations	points	Final exam	points

Active class participation	28	written exam	30
Practical work	12	oral exam	10
Preliminary exam(s)	20	
Seminar(s)			
The methods of knowledge assessment may differ; the table presents only some of the options: written exam, oral exam, project presentation, seminars, etc.			