

<b>Study Programme:</b> Phytomedicine		
<b>Course Unit Title:</b> Insect Systematics and Medical Entomology		
<b>Course Unit Code:</b> 19.FTM021		
<b>Name of Lecturer(s):</b> Aleksandra Ignjatović Čupina, full professor; Mihaela Kavran, Assistant Professor		
<b>Type and Level of Studies:</b> Undergraduate academic studies, first level		
<b>Course Status (compulsory/elective):</b> Compulsory		
<b>Semester (winter/summer):</b> Winter		
<b>Language of instruction:</b> Serbian, optionally English		
<b>Mode of course unit delivery (face-to-face/distance learning):</b> Face-to-face		
<b>Number of ECTS Allocated:</b> 4		
<b>Prerequisites:</b> None		
<b>Course Aims:</b> Acquiring knowledge of systematics and etology of the class <i>Insecta</i> , the role of insects in rural and urban habitats, insects which affect human and animal health, pathogens and parasites transmitted by insects, basic concepts of their control.		
<b>Learning Outcomes:</b> Acquisition of skills for identification of insects belonging to different orders, especially insect groups which affect human and animal health; Skills for inventorying the entomofauna composition in biodiversity studies; Qualifications for participation in teams dealing with recommendation and determination of control measures, as well as verification of the control results; Acquisition of fundamentals necessary for the attendance to specialized courses in entomology; Qualifications for the participation in teams dealing with insect research and conception of control strategies.		
<b>Syllabus:</b>		
<i>Theory</i>		
Basic insect characteristics and division of Arthropods. Taxonomy, systematics, biology and behavior of different insect taxa. Estimation and regulation of population density, competition. Parasite/parasitoid – host and predator-host relations. Diversity, equilibrium and succession of insect communities. Insect orders of medical and veterinary importance. Diseases generated or transmitted by insects. Pathogens and parasites, mechanisms of disease transmission and modes of insects spreading. Venoms, defense secretions and allergens.		
<i>Practice</i>		
Laboratory exercises are based on individual work on identification of immature and adult insect stages. Methods of insect collecting (application in corresponding natural habitats), preserving and storing of insect collections		
<b>Required Reading:</b>		
<ul style="list-style-type: none"> <li>• Davies, R.G., (1988): Outlines of entomology. Chapman &amp; Hall, London, UK. 408 pp</li> <li>• Beutel R.G., Friedrich F., Ge S.Q., Yang X.K. (2014): Insect Morphology and Phylogeny. A textbook for students of entomology. Walter de Gruyter GmbH, Berlin, Germany. 516 pp.</li> <li>• McGavin G.C.(2010):Essential Entomology. An Order-by-Order Introduction. Oxford University Press, UK. 318 pp.</li> <li>• 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)</li> <li>• 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)</li> <li>• Ignjatović Čupina A. Petrić D. (2012) Ključ za familije nadklase Hexapoda, CD izdanje, Poljoprivredni fakultet, Univerzitet u Novom Sadu, 72 pp. (in Serbian)</li> </ul>		
<b>Weekly Contact Hours:</b> 4	<b>Lectures:</b> 2	<b>Practical work:</b> 2
<b>Teaching Methods:</b> The lessons and preparation for tests are performed by the use of modern teaching tools. Check of theoretical knowledge includes 6 tests related to study units, 2 tests which require the combining of acquired knowledge and 1 final test. Individual work is based on the use of the binocular/microscope and identification keys. Check of practical knowledge. Consultations related to theoretical/ practical lessons and preparation of seminars/ research work and projects.		
<b>Knowledge Assessment (maximum of 100 points):</b>		

<b>Pre-exam obligations</b>	points	<b>Final exam</b>	points
Active class participation	22	written exam	20
Practical work	15	oral exam	10
Preliminary exam(s)	23	insect collection	10
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.