

(Table 5.2) Course unit description

Study program : Ecology			
Type and level of studies: Master academy study – II level of studies			
Course unit: Insect ecology			
Teacher in charge : Ana Mitrovski Bogdanović, PhD			
Language of instruction: English			
ECTS: 6			
Prerequisites: /			
Semester: Winter Semester			
Course unit objective Knowledge acquisition of insect ecology as well as understanding of crucial insect roles in ecosystem functioning.			
Learning outcomes of Course unit Forming of experts in the field of insect ecology capable for laboratory investigations in general and applied entomology.			
Course unit contents <i>Theoretical classes</i> History of ecology and entomology. Behavioral insect ecology. Species interactions, populations and communities. Influence of abiotic and biotic factors on insect ecology. Food webs and communities. Natural enemies (predators, parasitoids, pathogens) and insect population dynamics. Active and inactive mechanisms of insect defence. Chemical defence. Evolutionary insect ecology. Physiological insect ecology. Insects in different ecosystems. Morphological and ecological insect biodiversity. Insect conservation. Insect and diseases. Insect pest management (biological and chemical control). <i>Practical classes</i> Ecology of selected insect taxon. Introducing with insect micro- and macrohabitats. Analyses of diagnostical characters of different adaptive insect forms. Studing of species interactions. Introducing with bioindicator traits of some insects and their practical applications in agriculture, horticulture and forestry.			
Literature Price P. W., Denno R. F., Eubanks M. D., Finke D. L., Kaplan I. Insect ecology: behavior, populations and communities. Cambridge University Press, 2011. Speight M. R., Hunter M. D., Watt A. D. Ecology of insects. A John Wiley & Sons, Ltd., 2008.			
Number of active teaching hours			Other classes
Lectures:	Practice:	Other forms of classes: Mentoring (consultative) system	
Teaching methods Power point presentations, video clips, seminars, consultations, laboratory and field work.			
Examination methods (maximum 100 points)			
Exam prerequisites	No. of points:	Final exam	No. of points:
Student's activity during lectures		oral examination	30
practical classes/tests		written examination	30
Seminars/homework	40	
Project			
Other			