

(Table 5.2) Course unit description

<b>Study program:</b> Ecology				
<b>Type and level of studies:</b> Master academy study – II level of studies				
<b>Course unit:</b> Insect ecology				
<b>Teacher in charge:</b> Ana Mitrovski Bogdanović, PhD				
<b>Language of instruction:</b> English				
<b>ECTS:</b> 6				
<b>Prerequisites:</b> /				
<b>Semester:</b> Summer semester				
<b>Course unit objective</b> Knowledge acquisition of insect ecology as well as understanding of crucial insect roles in ecosystem functioning.				
<b>Learning outcomes of Course unit</b> Forming of experts in the field of insect ecology capable for laboratory investigations in general and applied entomology.				
<b>Course unit contents</b>  <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 taxa. 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.				
<b>Literature</b> 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.				
<b>Number of active teaching hours</b>				Other classes: 0
Lectures: 30	Practice: 30	Other forms of classes: 0	Independent work: 0	
<b>Teaching methods</b> Power point presentations, video clips, seminars, consultations, laboratory and field work.				
<b>Examination methods (maximum 100 points)</b>				
<b>Exam prerequisites</b>	<b>No. of points</b>	<b>Final exam</b>	<b>No. of points</b>	
Practical classes	10	Written examination	20	
Tests	10	Oral examination	30	
Homework	10	Other	/	
Seminars	20	/	/	
Project	/	/	/	

<b>Grading system</b>		
<b>Grade</b>	<b>No. of points</b>	<b>Description</b>
10	$\geq 91$	Excellent
9	81-90	Exceptionally good
8	71-80	Very good
7	61-70	Good
6	51-60	Passing
5	$\leq 50$	Failing