

(Table 5.2) Course unit description

<b>Study program:</b> Biology and Ecology				
<b>Type and level of studies:</b> Undergraduate academy study – I level of studies				
<b>Course unit:</b> Entomology				
<b>Teacher in charge:</b> Filip Vukajlović, PhD				
<b>Language of instruction:</b> English				
<b>ECTS:</b> 5				
<b>Prerequisites:</b> /				
<b>Semester:</b> Summer semester				
<b>Course unit objective</b> Introducing students to fundamental and practical knowledge in the field of entomology; familiarization with the morphological and anatomical diversity of insects; acquisition of knowledge and skills regarding the taxonomic diversity of insects, including the ability to recognize and identify different insect taxa; training specialists for tasks requiring basic entomological knowledge; mastering field and practical techniques in entomology and the preparation of entomological collections; development of the ability to work independently and in teams, and to organize activities.				
<b>Learning outcomes of Course unit</b> Students have acquired both general and practical knowledge of insect morphology and anatomy, the recognition of major insect taxa, and their diversity. This knowledge enables them to analyze anatomical and morphological differences among various taxonomic groups of insects. Students are trained to collect, prepare, and curate entomological collections, identify different groups of insects, perform professional tasks, and work independently in the field of entomology. Through the creation and analysis of entomological collections and insect specimens, students develop independent thinking, critical reasoning, and teamwork skills. They are prepared for further professional development and for applying the acquired knowledge in fields such as nature and environmental protection, forestry, and agriculture.				
<b>Course unit contents</b> <i>Theoretical classes:</i> History of entomology. Origin and phylogeny of insects. Morphology, anatomy, reproduction, development, behavior, and ecology of insects. Taxonomic diversity – an overview of insect orders and their diagnostic characteristics. The significance of insects in nature and for humans. <i>Practical classes:</i> Familiarization with the structure of body regions, mouthparts, wings, and appendages, as well as the anatomy of insects using microscopic preparations, dissections, and the study of entomological collections. Determination of insects using identification keys. Multiple one-day or multi-day field exercises covering methods of collecting and preparing insects.				
<b>Literature</b> McGavin, GC., Davranoglou. L-R. Essential Entomology. Second Edition. Oxford University Press, 2022. Vukajlović F. Entomology lab practicum, unauthorized script, Kragujevac, 2025				
<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>	
Activities at lectures	5	Oral examination	30	
Activities in practical classes	5			
Theoretical classes tests	15			
Practical classes tests	15+10			
Individual project	20			

<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