

(Table 5.2) Course unit description

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|---|------------------------|-------------------------------------|-------------------------------|----------------------------|
| Study program: Ecology | | | | |
| Type and level of studies: Undergraduate academy study – I level of studies | | | | |
| Course unit: Morphology and Systematics of Invertebrates | | | | |
| Teacher in charge: Filip Vukajlović, PhD | | | | |
| Language of instruction: English | | | | |
| ECTS: 9 | | | | |
| Prerequisites: / | | | | |
| Semester: Winter semester | | | | |
| Course unit objective Introducing students to the morphological and anatomical structure of various groups of invertebrates, their taxonomic diversity, basic principles of body organization, reproduction, developmental cycles, distribution, ecology, and significance in the living world. Understanding the importance of structural organization and functional adaptations of invertebrates. | | | | |
| Learning outcomes of Course unit Students have acquired fundamental knowledge of the general characteristics of invertebrates, their systematics, ecology, and significance in nature and to humans. The acquired knowledge will serve as a foundation for advanced zoology courses, as well as for the practical application of this knowledge in environmental sciences, forestry, agriculture, and related fields. | | | | |
| Course unit contents <i>Theoretical classes:</i> Overview of the body organization, diversity, and adaptations of the most significant groups of invertebrates (Protozoa, Chromista, Porifera, Cnidaria, Bilateria – Protostomia and selected groups of Deuterostomia – Echinodermata). Their theoretical and practical significance in ecosystems, veterinary science, medicine, agriculture, and forestry. <i>Practical classes:</i> Familiarization with representatives of the most important invertebrate groups (Protozoa, Chromista, Porifera, Cnidaria, Bilateria – Protostomia and selected groups of Deuterostomia – Echinodermata) through analysis of their diagnostic characteristics using microscopic preparations, as well as direct observation of characteristic representatives of selected taxa. | | | | |
| Literature Hickman C., Keen S., Eisenhour, D., Larson A., l'Anson, H. Integrated Principles of Zoology. 18 th Edition. McGraw-Hill Education, 2019. Nielsen C. Animal Evolution. Interrelationships of the living phyla. Third Edition. Oxford University Press. 2012. Mitrovski Bogdanović A., Vukajlović F. Morphology and Systematics of Invertebrates lab practicum, unauthorized script, Kragujevac, 2025 | | | | |
| Number of active teaching hours | | | | Other classes: 0 |
| Lectures: 60 | Practice: 60 | Other forms of classes: 0 | Independent work: 0 | |
| 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 | |
| Activities at lectures | 5 | Oral examination | 30 | |
| Activities in practical classes | 5 | | | |
| Theoretical classes tests | 10+10+10 | | | |
| Practical classes tests | 10+10+10 | | | |
| Grading system | | | | |
| Grade | No. of points | | Description | |
| 10 | >= 91 | | Excellent | |

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|---|-------|--------------------|
| 9 | 81-90 | Exceptionally good |
| 8 | 71-80 | Very good |
| 7 | 61-70 | Good |
| 6 | 51-60 | Passing |
| 5 | <=50 | Failing |