

Subject card

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| Subject name and code | Invertebrate taxonomy, PG_00048436 | | | | | | |
| Field of study | Taksonomia zwierząt bezkręgowych (Ćw. laboratoryjne) | | | | | | |
| Date of commencement of studies | October 2022 | Academic year of realisation of subject | | | 2024/2025 | | |
| Education level | Bachelor's studies | Subject group | | | | | |
| Mode of study | full-time studies | Mode of delivery | | | at the university | | |
| Year of study | 3 | Language of instruction | | | Polish | | |
| Semester of study | 5 | ECTS credits | | | 2.0 | | |
| Learning profile | academic | Assessment form | | | credit | | |
| Conducting unit | Katedra Zoologii Bezkręgowców i Parazytologii -> Faculty of Biology -> Rector | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | | dr Marta Zakrzewska | | | | |
| | Teachers | | dr Katarzyna Faleńczyk-Koziróg dr Marta Zakrzewska | | | | |
| Lesson types | Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
| | Number of study hours | 0.0 | 0.0 | 30.0 | 0.0 | 0.0 | 30 |
| | E-learning hours included: 0.0 | | | | | | |
| Learning activity and number of study hours | Learning activity | Participation in didactic classes included in study plan | | Participation in consultation hours | | Self-study | SUM |
| | Number of study hours | 30 | | 0.0 | | 0.0 | 30 |
| Subject objectives | <p>A fundamental knowledge of the invertebrate phyla, and their relationships with the environment.</p> <p>A familiarity with the Code of Zoological Nomenclature.</p> <p>The capacity to procure and prepare materials for taxonomic studies.</p> <p>The ability to utilise zoological keys and to compile them independently.</p> | | | | | | |

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| Learning outcomes | Course outcome | Subject outcome | Method of verification |
| | [BIOLL3_W06] the graduate knows the characteristics, systematics and evolution of selected groups of organisms including molecular basis and basic concepts and mechanisms of evolution | The student provides a comprehensive overview of selected groups of invertebrates in various types of natural environments, including those found in coastal areas. Additionally, the student presents a range of methods and forms of protection for these invertebrates. | [SW4] test/egzamin - ustny lub pisemny |
| | [BIOLL3_W05] the graduate knows the rules and describes the mechanisms of life at the population, biocenosis and ecosystem levels, as well as the temporal and spatial determinants of biodiversity | The student will be capable of characterising a selected range of taxa from the invertebrate fauna and of relating these to their respective habitats. | [SW4] test/egzamin - ustny lub pisemny [SW2] prezentacja/projekt/referat/raport |
| | [BIOLL3_U03] the graduate is able to perform simple tasks or research expertise typical of the biological sciences under the guidance of a mentor | The student is required to perform basic tasks under the guidance of an supervisor, such as preparing microscope slides for use in taxonomic analysis and developing keys for species identification. | [SU5] realizacja zadania problemowego [SU6] demonstracja umiejętności praktycznych [SU8] obserwacja samodzielnej lub zespołowej pracy studenta |
| | [BIOLL3_K02] the graduate is ready to critically self-assess his/her own competence and update knowledge and improve skills | The student is aware of the necessity for transparency and integrity in academic and professional work. | [SK1] wypowiedź ustna/rozmowa/dyskusja [SK2] prezentacja/projekt/referat/raport [SK8] obserwacja samodzielnej lub zespołowej pracy studenta |
| [BIOLL3_K01] the graduate is ready to evaluate his own knowledge and understands the need for continuous learning and development and is open to new ideas | The student is aware of the limitations of their own knowledge and the necessity for continuous learning and development. They are receptive to new concepts, including an alternative approach to invertebrate systematics. | [SK1] wypowiedź ustna/rozmowa/dyskusja [SK8] obserwacja samodzielnej lub zespołowej pracy studenta | |
| Subject contents | <p>The role and tasks of systematics. Principles of modern zoological nomenclature. Basics of phenetic, cladistic and evolutionary systematics.</p> <p>Review of selected groups of invertebrates (characteristics and systematic position), including their relationship to habitat.</p> <p>Methods of collection, preparation and identification of material for taxonomic studies.</p> | | |
| Prerequisites and co-requisites | The knowledge of basic taxonomy and systematics of invertebrate animals and basic knowledge of invertebrate zoology. | | |
| Assessment methods and criteria | Subject passing criteria | Passing threshold | Percentage of the final grade |
| | presentation / project | 51.0% | 33.34% |
| | test II | 51.0% | 33.33% |
| | test I | 51.0% | 33.33% |
| attendance | 85.0% | 0.0% | |
| Recommended reading | <p>Basic literature</p> <p>1. wykorzystywana podczas zajęć: Boroń A., Szlachciak J. 2013. Różnorodność i taksonomia zwierząt. Tom 1. Charakterystyka i systematyka zwierząt. Uniwersytet Warmińsko-Mazurski, Olsztyn. Boroń A., Szlachciak J. 2013. Różnorodność i taksonomia zwierząt. Tom 2. Przewodnik terenowy do rozpoznawania wybranych krajowych taksonów zwierząt. Uniwersytet Warmińsko-Mazurski, Olsztyn. Winston, J. E. 1999. Describing species: practical taxonomic procedure for biologists. Columbia University Press, New York. pp. 518.</p> <p>2. studiowana samodzielnie przez studenta Błaszak Cz. [red.] 2009. Zoologia. t.1. Bezkręgowce. PWN, Warszawa. Błaszak Cz. [red.] 2011. Zoologia t.2. cz.1. Stawonogi. Stawonogi. PWN, Warszawa. Błaszak Cz. [red.] 2012. Zoologia t.2. cz.2. Stawonogi. Stawonogi. PWN, Warszawa. Błaszak Cz. [red.] 2015. Zoologia t.3. cz. 1. Szkarłupnie - płazy. PWN, Warszawa.</p> | | |

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| | Supplementary literature | <p>Falinowski A. 2007. Techniki zbioru, utrwalania i konserwacji zwierząt. WUJW, Warszawa.</p> <p>Giłka W., Zakrzewska M. 2013. A contribution to the systematics of Neotropical Tanytarsus van der Wulp: first descriptions from Ecuador (Diptera: Chironomidae: Tanytarsini). Zootaxa 3619: 453-459.</p> <p>Głowaciński Z. [red.]. 2007. Polska czerwona księga zwierząt. Kręgowce. PWRiL, Warszawa.</p> <p>Jura C. 2005. Bezkręgowce: podstawy morfologii funkcjonalnej, systematyki i filogenezy. Wydawnictwo Naukowe PWN.</p> <p>Kozina P., Izdebska J.N., Kowalczyk R. 2021. The first description of the nymphal stages of Hoplopleura longula (Psocodea: Anoplura: Hoplopleuridae) from the harvest mouse Micromys minutus (Rodentia: Muridae). Biodiversity Data Journal 9: e63747.</p> <p>Mayr E. 1974. Podstawy systematyki zwierząt. PWN, Warszawa.</p> <p>Moraczewski J., Riedel W., Sołyńska M., Umiński T. 1984. Ćwiczenia z zoologii bezkręgowców. PWN, Warszawa.</p> |
| | eResources addresses | |
| Example issues/ example questions/ tasks being completed | | |
| Work placement | Not applicable | |

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