University of Gdańsk

Subject card

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|---|---|---|---|
| Subject name and code | Identification of invertebrates, PG_00198084 | | |
| Field of study | Natural Resources Conservation | | |
| Date of commencement of studies | October 2026 | Academic year of realisation of subject | 2026/2027 |
| Education level | Bachelor's studies | Subject group | Obligatory subject group in the field of study<br>Subject group related to scientific research in the field of study |
| Mode of study | full-time studies | Mode of delivery | at the university |
| Year of study | 1 | Language of instruction | Polish |
| Semester of study | 1 | ECTS credits | 3.0 |
| Learning profile | academic | Assessment form | exam |
| Conducting unit | Laboratory of Parasitology and General Zoology -> Katedra Zoologii Bezkręgowców i Parazytologii -> Faculty of Biology -> Rector | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | dr Paulina Kozina | |
| | Teachers | | |

| Lesson types | Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
|---|---|---|---|---|---|---|---|
| | Number of study hours | 30.0 | 0.0 | 0.0 | 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 | 4.0 | 41.0 | 75 |

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| Subject objectives | 1 To review the major types of invertebrate animals and Protista (Protozoa); to learn about structure and biology.<br>2 To be able to identify the basic taxa. |

## Learning outcomes

| Course outcome | Subject outcome | Method of verification |
|---|---|---|
| [OZPL3_U03] The graduate is able to search for and use available sources of biological information, including electronic sources, and critically analyse them | The graduate independently search for and use available sources of biological information, including online and electronic sources | [SU4] test/exam - oral or written |
| [OZPL3_K01] The graduate is ready to recognise the limitations in his/her own knowledge and understands the need for continuous learning and development | The graduate is aware of the limitations of their own knowledge and understand the need for lifelong learning in order to carry out correct inventory work and prepare documents on natural valorisation | [SK1] oral statement/conversation/ discussion |
| [OZPL3_W04] The graduate possesses advanced knowledge and understanding of the characteristics, systematics, and evolution of selected groups of organisms, as well as the basic concepts and mechanisms of evolution | The graduate will be familiar with the characteristics and systematics of selected groups of invertebrate animals in terms of inventory and valorisation of natural history | [SW4] test/exam - oral or written |
| [OZPL3_W01] The graduate possesses advanced knowledge and understanding of the structural and functional relationships at the cellular, tissue, organ, and body levels. | The graduate introduces the structure of the different types of Protozoa and invertebrate animals at different levels of organization | [SW4] test/exam - oral or written |
| [OZPL3_K08] The graduate is ready to systematically update his/her natural knowledge and to apply it in practice | The graduate systematically update their knowledge of invertebrate animals and knows its practical application | [SK1] oral statement/conversation/ discussion |
| [OZPL3_U08] The graduate is able to use the scientific language typical of the biological sciences in discussions with specialists | In discussion with specialists be able to use scientific language on issues relating to identification of invertebrate animals | [SU1] oral statement/conversation/ discussion<br>[SU4] test/exam - oral or written |

## Subject contents

Characterisation, systematics and identification of selected groups of invertebrate animals with particular emphasis on
national species, including endangered, protected, bioindicator, alien and invasive species.

## Prerequisites and co-requisites

## Assessment methods and criteria

| Subject passing criteria | Passing threshold | Percentage of the final grade |
|---|---|---|
| written test | 51.0% | 100.0% |
| attendance | 85.0% | 0.0% |

## Recommended reading

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| Basic literature | Błaszak C.,red. 2009-2015. Zoologia, t.1.; t. 2, cz. 1, 2.; t. 3, cz. 1. PWN, Warszawa.<br>Czapik A. 1992. Podstawy protozoologii. PWN, Warszawa.<br>Grabda E., red. 1989. Zoologia bezkręgowce, t. 1. PWN, Warszawa. |
| Supplementary literature | Błoszyk J., Izdebska J.N., Rolbiecki L. 2022. Digital catalogue of biodiversity of Poland Animalia: Arthropoda: Chelicerata: Arachnida: Acari. Version 1.3. Polish Biodiversity Information Network. Checklist dataset https://doi.org/10.15468/fzfcqd.<br>Bogdanowicz W., red. 2004, 2007, 2008. Fauna Polski, charakterystyka i wykaz gatunków. MiIZ, PAN, Warszawa.<br>Dogiel W.A. 1986. Zoologia bezkręgowców. PWRiL, Warszawa.<br>Dzik J. 2015. Zoologia. Różnorodność i pokrewieństwa zwierząt. WUW, Warszawa.<br>Głowaciński Z., Nowacki J., red. 2004. Polska czerwona księga zwierząt Bezkręgowce. Instytut Ochrony Przyrody PAN, Kraków.<br>Izdebska J.N., Rolbiecki L. 2022. Digital catalogue of biodiversity of Poland Animalia: Arthropoda: Hexapoda: Insecta: Phthiraptera. Version 1.3. Polish Biodiversity Information Network. Checklist dataset https://doi.org/10.15468/4p8vwc.<br>Izdebska J.N., Rolbiecki L. 2022. Digital catalogue of biodiversity of Poland Animalia: Arthropoda: Hexapoda: Insecta: Siphonaptera. Version 1.3. Polish Biodiversity Information Network. Checklist dataset https://doi.org/10.15468/pxgb62.<br>Jura C. 2007. Bezkręgowce. Podstawy morfologii funkcjonalnej, systematyki i filogenezy. PWN, Warszawa.<br>Kozina P., Łopucki R. 2017. Kolejne stanowisko modliszki zwyczajnej Mantis religiosa religiosa na terenie Polesia Lubelskiego. Przegląd Przyrodniczy 28(1): 117-121.<br>Moore J. 2009. Wprowadzenie do zoologii bezkręgowców. WUW, Warszawa |
| eResources addresses | |

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| Example issues/ example questions/ tasks being completed | |
| Work placement | Not applicable |

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