University of Gdańsk

Subject card

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 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

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

Learning outcomes

Course outcome	Subject outcome	Method of verification
[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_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_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_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 [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
attendance	85.0%	0.0%
written test	51.0%	100.0%

Recommended reading

Basic literature	Błaszak C.,red. 2009-2015. Zoologia, t.1.; t. 2, cz. 1, 2.; t. 3, cz. 1. PWN, Warszawa. Czapik A. 1992. Podstawy protozoologii. PWN, Warszawa. 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. Bogdanowicz W., red. 2004, 2007, 2008. Fauna Polski, charakterystyka i wykaz gatunków. MiIZ, PAN, Warszawa. Dogiel W.A. 1986. Zoologia bezkręgowców. PWRiL, Warszawa. Dzik J. 2015. Zoologia. Różnorodność i pokrewieństwa zwierząt. WUW, Warszawa. Głowaciński Z., Nowacki J., red. 2004. Polska czerwona księga zwierząt Bezkręgowce. Instytut Ochrony Przyrody PAN, Kraków. 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. 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. Jura C. 2007. Bezkręgowce. Podstawy morfologii funkcjonalnej, systematyki i filogenezy. PWN, Warszawa. Kozina P., Łopucki R. 2017. Kolejne stanowisko modliszki zwyczajnej Mantis religiosa religiosa na terenie Polesia Lubelskiego. Przegląd Przyrodniczy 28(1): 117-121. Moore J. 2009. Wprowadzenie do zoologii bezkręgowców. WUW, Warszawa
eResources addresses	

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

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