University of Gdańsk

Subject card

Subject name and code	Arthropod biology, PG_00154368						
Field of study	Natural Resources Conservation						
Date of commencement of studies	October 2024		Academic year of realisation of subject		2026/2027		
Education level	undergraduate studies		Subject group		Optional subject group 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	3		Language of instruction		Polish		
Semester of study	6		ECTS credits		2.0		
Learning profile	academic		Assessment form				
Conducting unit	Katedra Zoologii Bezkręgowców i Parazytologii -> Faculty of Biology						
Name and surname of lecturer (lecturers)	Subject supervisor		prof. dr hab. Joanna Izdebska				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	30.0	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		16.0	50
Subject objectives	1. Knowledge of the biology and systematics of arthropods and the role they play in ecosystems. 2. Ability to relate elements of arthropod structure and function to the living environment.						

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	demonstrates the ability to critically analyse and select biological information, especially from electronic sources	[SU1] oral statement/conversation/ discussion [SU4] test/exam - oral or written [SU8] observation of student's independent or team work
[OZPL3_W09] The graduate possesses an advanced comprehension of the current state of knowledge and the latest trends in biology, as well as their relationship to other natural disciplines	Understands the development and current state of knowledge and latest trends in arthropod biology and indicates its relationship with other disciplines natural sciences	[SW4] test/exam - oral or written
[OZPL3_K05] The graduate is ready to understand the need to improve their own competences, update their knowledge and improve their skills	understands the need to improve his/her own competences and to update his/her knowledge of arthropod biology and improve their skills	[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	presents the characteristics, systematics and biology of arthropods, describes the basic concepts and mechanisms of arthropod evolution	[SW4] test/exam - oral or written
[OZPL3_U07] The graduate is able to draw correct conclusions on the basis of analysis and synthesis of data from various sources	critically confronts biological information from different sources and, on this basis draws reasoned conclusions	[SU1] oral statement/conversation/ discussion [SU4] test/exam - oral or written

Subject contents

Origin and radiation of Arthropoda - different views on systematics. Morphological, anatomical, physiological and behavioural adaptations of Arthropods to a variety of environmental conditions - environmental factors shaping morphological and metabolic type. Ecological groups, distinguished based on similarities in arthropod adaptive traits, including the diversity of adaptations for parasitism, exemplified by selected taxa. Biology, trophic relationships, systematic review and characterisation of major arthropod groups, including natural and economic importance.

Prerequisites and co-requisites

Basic knowledge of invertebrate zoology

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
class attendance	80.0%	0.0%
test	51.0%	100.0%

Recommended reading

Basic literature

1. Biej-Bijenko G. J. 1976. Zarys entomologii. PWRiL, Warszawa.
2. Błaszak C. [red.] 2011. 2012. Zoologia, t.2.cz. 1, 2. Stawonogi. PWN, Warszawa.
3. Boczek J., Błaszak C. 2005. Roztocze (Acari). Znaczenie w życiu i gospodarce człowieka. SGGW, Warszawa.
4. Izdebska J.N. 2014. Wszy? Poznaj i pokonaj problem. PWN, Warszawa.
5. Jura C. [red.]. 1988. Biologia rozwoju owadów. PWN, Warszawa.
6. Pigulewski S.W. 1982. Jadowite zwierzęta bezkręgowe. PWN, Warszawa
7. Piotrowski F. 1990. Zarys entomologii parazytologicznej. PWN, Warszawa.
8. Szujecki A. 1998. Entomologia leśna. T. I. Wyd. SGGW Warszawa

Supplementary literature

1. Boczek. J. 1990. Owady i ludzie. PWN, Warszawa.
2. Kadulski S., Izdebska J.N. 2012. Rząd: wszy i wszoły - Phthiraptera. (W:) Zoologia. Tom II, część 2. Stawonogi. Tchawkodyszne. Cz. Błaszak [red.]. Wydawnictwo Naukowe PWN, Warszawa: 200-208.
3. Piotrowski F. 1996. Stawonogi sprzymierzeńcy i wrogowie człowieka. PWN, Warszawa.
4. Prokopowicz D. 2007. Medycyna podróży. Rośliny trujące. Zwierzęta jadowite. Wyd. Ekonomia i środowisko, Białystok.
5. Razowski J. 1987. Słownik entomologiczny. PWN, Warszawa.
6. Razowski J. 1996. Słownik morfologii owadów. PWN, Warszawa-Kraków.
7. Szadziewski R., Giłka W. 2012. Rząd: muchówki - Diptera. W: Błaszak C. [red.]. Zoologia, tom 2: stawonogi, część 2: tchawkodyszne. Wydawnictwo Naukowe PWN, Warszawa: 390-418.

eResources addresses

Adresy na platformie eNauczanie:

Example issues/ example questions/ tasks being completed

Work placement	Not applicable

Document generated electronically. Does not require a seal or signature.