University of Gdańsk

Subject card

Subject name and code	Arthropod biology, PG_00154712		
Field of study	Biology		
Date of commencement of studies	October 2024	Academic year of realisation of subject	2024/2025
Education level	postgraduate studies	Subject group	Obligatory subject group in the field of study 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	1	Language of instruction	Polish
Semester of study	2	ECTS credits	3.0
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	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. Knowledge of the biology and systematics of arthropods and the role they play in ecosystems.
2. Ability to relate the elements of arthropod structure and function to the living environment.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[BIOLMU2_W04] the graduate has an in-depth knowledge of the chosen specialisation in the biological sciences	has an in-depth knowledge of arthropod biology	[SW4] test/exam - oral or written
[BIOLMU2_K05] the graduate is prepared to use recognised sources of scientific and popular information in the biological sciences to further his or her knowledge	Understands the need to use recognized sources of scientific and popular science in the field of biological sciences in order to advance knowledge	[SK1] oral statement/conversation/ discussion
[BIOLMU2_U07] the graduate is able to critically confront biological information from a variety of sources and, on this basis, draw valid conclusions	Understands the need to use recognized sources of scientific and popular science in the field of biological sciences in order to advance knowledge	[SU1] oral statement/conversation/ discussion
[BIOLMU2_W05] the graduate knows and understands the dynamic development of the biological sciences and new research directions and disciplines	Recognizes the dynamic development of biological sciences and the emergence of new directions and disciplines of research	[SW1] oral statement/ conversation/discussion
[BIOLMU2_U03] the graduate can critically analyse and select biological information, especially from electronic sources	Demonstrates the ability to critically analyze and select biological information, especially from electronic sources	[SU1] oral statement/conversation/ discussion [SU4] test/exam - oral or written

<table>
<tr><td>Subject contents</td><td colspan="3">Origin and radiation of Arthropoda - different views on systematics. Morphological, anatomical, physiological and behavioral adaptations of arthropods to a variety of environmental conditions - environmental factors shaping morphological and metabolic type. Ecological groups, distinguished on the basis of similarities of adaptive characteristics of arthropods, including the diversity of adaptations to parasitism, using selected taxa as examples. Biology, trophic relationships, systematic review and characterization of major groups, including natural and economic importance.</td></tr>
<tr><td>Prerequisites and co-requisites</td><td colspan="3">basic knowledge of invertebrate zoology</td></tr>
<tr><td>Assessment methods and criteria</td><td colspan="3"><table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>test exam</td><td>51.0%</td><td>100.0%</td></tr></table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td colspan="2">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. Piotrowski F. 1996. Stawonogi sprzymierzeńcy i wrogowie człowieka. PWN, Warszawa
9. Szujecki A. 1998. Entomologia leśna. T. I. Wyd. SGGW, Warszawa</td></tr>
<tr><td>Supplementary literature</td><td colspan="2">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. Prokopowicz D. 2007. Medycyna podróży. Rośliny trujące. Zwierzęta jadowite. Wyd. Ekonomia i środowisko, Białystok
4. Razowski J. 1987. Słownik entomologiczny. PWN, Warszawa
5. Razowski J. 1996. Słownik morfologii owadów. PWN, Warszawa-Kraków
6. 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.</td></tr>
<tr><td>eResources addresses</td><td colspan="2">Adresy na platformie eNauczanie:</td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="3"></td></tr>
<tr><td>Work placement</td><td colspan="3">Not applicable</td></tr>
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