

Subject card

Subject name and code	Inventory animal inventory methods, PG_00154788						
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		
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		1.0		
Learning profile	academic		Assessment form				
Conducting unit	Katedra Zoologii Bezkręgowców i Parazytologii -> Faculty of Biology						
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	0.0	0.0	15.0	0.0	0.0	15
	E-learning hours included: 0.0						
	Additional information:						
	- Classes outside the UG teaching facilities. - Classes in the teaching room.						
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	15		3.0		7.0	25
Subject objectives	Familiarize students with practical methods of inventorying aquatic and terrestrial invertebrate animals, including field survey planning, collection and analysis of material.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[OZPL3_W06] The graduate has an advanced understanding of the names and types of natural environments, including their structural and functional characteristics	Has knowledge of invertebrate animals and understands the interactions between them and the environment, which translates into the correct execution of the inventory	[SW4] test/exam - oral or written
	[OZPL3_U01] The graduate is able to use basic apparatus and research tools and maintains the correct sequence of operations in laboratory and field work	Uses basic research apparatus and methods and maintains the proper sequence of operations in laboratory and field work used in the inventory of invertebrate animals	[SU4] test/exam - oral or written [SU6] demonstration of practical skills
	[OZPL3_W13] The graduate has an advanced understanding of the fundamental rules, methods, and techniques of environmental research and their potential applications in nature conservation	Introduces basic methods and techniques for conducting research on populations of invertebrate animals in the environment and how they can be used in conservation	[SW4] test/exam - oral or written
	[OZPL3_U04] The graduate is able to plan and carry out simple research tasks in the biological sciences under the guidance of a supervisor	Plans and performs invertebrate animal inventory research tasks under the guidance of a mentor	[SU4] test/exam - oral or written [SU6] demonstration of practical skills [SU8] observation of student's independent or team work
	[OZPL3_K08] The graduate is ready to systematically update his/her natural knowledge and to apply it in practice	Systematically updates natural knowledge in the light of changing regulations and knows how to apply it to the preparation of correct inventory documentation	[SK1] oral statement/conversation/discussion [SK4] test/exam - oral or written [SK8] observation of student's independent or team work
Subject contents	Principles of inventory surveys (delineation of monitoring areas/boundaries, timing and frequency of surveys, assessment of the status (abundance, density) of invertebrate animal populations, completion of the species observation card for the site). Methods of trapping aquatic and terrestrial invertebrate animals. Detection and identification of invertebrate animals based on direct observations. Recognizing signs of presence (e.g., feeding, breeding) of invertebrate animals.		
Prerequisites and co-requisites	- Formal requirements: None. - Prerequisites: Ability to identify basic groups of invertebrate animals.		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	A positive evaluation of the tests, written (theoretical) and practical, covering the knowledge and ability to use the methods of inventory of invertebrate animals	51.0%	100.0%
	Attendance at classes	85.0%	0.0%
Recommended reading	Basic literature	Literature required for final course credit (passing the exam): - Keys to the designation of insects of Poland part 1-29. Polish Entomological Society, 1954-2013. - Makomaska-Juchiewicz M. (ed.), 2010 Monitoring of animal species. Methodical guide, part 1. Library of Environmental Monitoring, Warsaw. - Makomaska-Juchiewicz M., Baran P. (ed.), 2012. Monitoring of animal species. Methodical guide, part 2. Library of Environmental Monitoring, Warsaw. - Makomaska-Juchiewicz M., Bonka M. (ed.), 2015. Monitoring of animal species. Methodical guide, part 4. Library of Environmental Monitoring, Warsaw. - Obidziński A., Żelazo J. (eds.), 2011. Inventory and valorization of nature. Guide to field exercises. SGGW. Warsaw. - Tończyk G., Siciński J. (ed.), 2013. Key to the determination of benthic macroinvertebrates for the assessment of the ecological status of surface waters. Library of Environmental Monitoring, Warsaw, Poland. - Materials made available by the instructor	

	Supplementary literature	Supplementary literature: 1. Dumnicka E., Biesiadka E., Namiotko T. 2016. zoobenthos. In: Krzyściak-Kosińska R., Wilk-Woźniak E. (Editor) Aquatic ecosystems of the Białowieża National Park: 213-231. Białowieża National Park, Białowieża. 2. Izdebska J.N., Janta A., Żmudziński L. 1997. Fauna of the Invertebrates of the Seaside Landscape Park. (In:) The Seaside Landscape Park. A. Janta (ed.). NPK, Władysławowo: 57-75. 3. Kozina P. 2015. A new locality of Mantis religiosa (L.) (Mantodea: Mantidae) on the territory of the Sobkowskie Hills Reserve (Małopolska Upland, Szydlowskie Foothills). Entomological News 34: 67. 4. Sutherland W. J. (ed.), 2006. ecological census techniques: a handbook. Cambridge University Press, Cambridge.
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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