University of Gdańsk

Subject card

Subject name and code	Specialization laboratory, PG_00198146		
Field of study	Natural Resources Conservation		
Date of commencement of studies	October 2026	Academic year of realisation of subject	2028/2029
Education level	Bachelor's 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	3	Language of instruction	Polish
Semester of study	5	ECTS credits	4.0
Learning profile	academic	Assessment form	credit
Conducting unit	Laboratory of Vertebrate Ecology and Ethology -> Department of Vertebrate Ecology and Zoology -> Faculty of Biology -> Rector		
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. Joanna Święta-Musznicka	
	Teachers		

Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	60.0	0.0	0.0	60
	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	60	10.0	30.0	100

Subject objectives	Preparation of the student to carry out independent research work related to the scientific topics of the department; learning about research methods, procedures, and tools.

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[OZPL3_W15] The graduate is familiar with the principles of occupational safety and health as well as ergonomics	The student is familiar with the hazards associated with laboratory and fieldwork, the principles of proper workplace organisation, and the safe use of tools and research equipment.	[SW5] implementation of a problem task
	[OZPL3_U01] The graduate is able to use basic apparatus and research tools, maintains the correct sequence of operations in laboratory and field work and apply the principles of savoir-vivre in practice	The student is able to correctly operate basic research equipment (e.g. microscopes, GPS devices, data loggers) and use appropriate measuring instruments (e.g. anemometers, pipettes, calipers) to conduct laboratory experiments and field studies.	[SU6] demonstration of practical skills
	[OZPL3_K07] The graduate is prepared to demonstrate responsibility for the equipment/ materials entrusted, respects the work of others and is ready to consciously apply the principles of savoir-vivre in life	The student takes care of the laboratory and field equipment entrusted to them, stores it in accordance with safety regulations, and uses research materials responsibly.	[SK8] observation of student's independent or team work
	[OZPL3_U02] The graduate can read with comprehension scientific texts in the field of natural sciences in Polish and simple texts in English	The student uses available scientific literature and resources in the field of natural sciences in both Polish and English.	[SU2] presentation/project/paper/ report
	[OZPL3_K03] The graduate is ready to identify priorities to achieve a task defined by him/ herself or others	The student is able to establish priorities for the activities required to complete an assigned project or practical exercise, effectively planning the sequence and methods of individual work stages while taking into account available resources and time constraints.	[SK5] implementation of a problem task
	[OZPL3_U06] The graduate is able to make observations and perform basic physical, biological and chemical measurements in the field or laboratory	The student independently conducts environmental observations and performs basic physical (e.g. temperature and humidity), biological (e.g. organism abundance and morphometric characteristics), and chemical measurements (e.g. pH and concentrations of chemical compounds) under field and laboratory conditions, using appropriate methods and measuring instruments.	[SU5] implementation of a problem task
	[OZPL3_W13] The graduate has an advanced understanding of the rules, methods, and techniques of environmental research and their potential applications in nature conservation	The student has basic knowledge of the legal and ethical principles governing scientific and professional activities and applies them in prepared oral presentations.	[SW2] presentation/project/paper/ report
	[OZPL3_U11] The graduate is able to present specific biological topics during oral presentations in Polish and in a foreign language	The student uses the equipment and materials entrusted to them responsibly and shows respect for the work of others.	[SU8] observation of student's independent or team work
	[OZPL3_W10] The graduate possesses a comprehensive understanding of current issues in protection of natural resources and related fields	The student is familiar with and can discuss current issues related to the conservation of natural resources and related fields.	[SW1] oral statement/ conversation/discussion

Subject contents	Practical application of research methods used in natural science research. Techniques for collecting and processing scientific data. Research planning. Principles of conducting a scientific experiment. Techniques for writing scientific papers in the natural sciences. Content tailored to the thesis topic.
Prerequisites and co-requisites	

<table>
<tr><td>Assessment methods and criteria</td><td colspan="2"><table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>student's independent work</td><td>50.0%</td><td>100.0%</td></tr></table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td>Weiner J. 2006. Techniki pisania i prezentowania przyrodniczych prac naukowych. Przewodnik praktyczny. PWN, Warszawa.
Wojciechowski T., Doktór G. 1999. Jak pisać prace dyplomowe licencjackie i magisterskie: poradnik. WSZiM, Warszawa.</td></tr>
<tr><td>Supplementary literature</td><td>Normando, D. (2014). Writing a scientific paper: Where to start from?. Dental Press Journal of Orthodontics, 19, 1 - 1. https://doi.org/10.1590/2176-9451.19.1.001-001.edt.</td></tr>
<tr><td>eResources addresses</td><td></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="2">Practical application of research methods used in the natural sciences.
Techniques for collecting and analyzing scientific data.
Principles of conducting a scientific experiment.
Techniques for writing scientific papers in the natural sciences.
Content tailored to the topic of the thesis</td></tr>
<tr><td>Work placement</td><td colspan="2">Not applicable</td></tr>
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