

**Subject card**

<b>Subject name and code</b>	, PG_00120927						
<b>Field of study</b>	Geology						
<b>Date of commencement of studies</b>	October 2024	<b>Academic year of realisation of subject</b>			2026/2027		
<b>Education level</b>	Bachelor's studies	<b>Subject group</b>			Optional subject group		
<b>Mode of study</b>	full-time studies	<b>Mode of delivery</b>			at the university		
<b>Year of study</b>	3	<b>Language of instruction</b>			Polish		
<b>Semester of study</b>	6	<b>ECTS credits</b>			1.0		
<b>Learning profile</b>	academic	<b>Assessment form</b>			credit		
<b>Conducting unit</b>	Department of Geophysics -> Faculty of Oceanography and Geography -> Rector						
<b>Name and surname of lecturer (lecturers)</b>	<b>Subject supervisor</b>		dr hab. Leszek Łęczyński				
	<b>Teachers</b>						
<b>Lesson types</b>	<b>Lesson type</b>	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	<b>Number of study hours</b>	15.0	0.0	0.0	0.0	0.0	15
	E-learning hours included: 0.0						
<b>Learning activity and number of study hours</b>	<b>Learning activity</b>	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	<b>Number of study hours</b>	15		1.0		8.0	24
<b>Subject objectives</b>	Introduction to geological and geophysical survey methods used in terrestrial and underwater archaeology						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[GEOLL3_K03] is willing to exercise caution and criticism in receiving information from scientific literature, the Internet and other media related to natural sciences	critically use source information, in Polish and English, including archival and electronic databases, on geological, geophysical and archaeological issues	[SK4] test/exam - oral or written
	[GEOLL3_W03] knows and identifies paleontological, mineralogical, petrographic and structural objects using appropriate methods	Knows and identifies archaeological sites using appropriate geological and geophysical methods	[SW4] test/exam - oral or written
	[GEOLL3_U01] is able to apply basic measurement and analytical techniques in the field and in the laboratory, plans to conduct research and measurements	is able to apply basic measuring and analytical techniques in the field of geophysics and geology, and to plan surveys and measurements	[SU4] test/exam - oral or written
	[GEOLL3_U06] is able to identify geological objects and combine them with geological processes and anthropogenic environmental transformations	Is able to identify archaeological sites and link them to anthropogenic transformations of the environment	[SU4] test/exam - oral or written
	[GEOLL3_U05] can reconstruct the history of geological development of selected regions in Poland and in the world on the basis of maps, cross-sections and exposures in the field	can reconstruct the history of geological development of selected regions in Poland and in the world on the basis of maps, cross-sections and field exposures in relation to archaeological research	[SU4] test/exam - oral or written
	[GEOLL3_K04] is ready for self-criticism and drawing conclusions based on self-analysis; is willing to behave in compliance with professional ethics	Is willing to self-evaluate on the basis of Self-analysis and conduct in accordance with the ethics of the profession	[SK4] test/exam - oral or written
[GEOLL3_W02] knows and understands the terminology appropriate in science and natural sciences	knows and understands terminology specific to archaeology and the natural sciences	[SW4] test/exam - oral or written	
Subject contents	<p>Introduction to the subject of archaeological and geoarchaeological research.  Methodology of field geological and geophysical investigations used in archaeology.  Laboratory geoarchaeological investigations.  Determination of the position of a given layer (unit) in the archaeological stratigraphy and simultaneous reconstruction of its sedimentation environment in the context of a given type of archaeological site.  Investigations of wrecks deposited on the seabed.  Low-level photogrammetry of the archaeological site.</p>		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	colloquium	51.0%	100.0%
Recommended reading	Basic literature	Herz N., Garrison E.G.1998. Geological Methods for Archaeology, Oxford. DEAGAN K A. 2008 Environmental archaeology and historical archaeology. [W:]: Reitz E.J., Scarry C.M. & Scudder S.J. (red.), Springer Science _ Business Media, LLC, New York: 2142. ENVIRONMENTAL ARCHAEOLOGY. 2002 A guide to the theory and practice of methods, from sampling and recovery to post-excavation. English Heritage Publications, Empress Litho, London: 148. Kędziński M, i in. Opracowania fotogrametryczne niskiego pułapu. WAT. Warszawa 2014. Ławecka D. 2003. Wstęp do archeologii, Warszawa Kraków. Mycielska-Dowgiałło E., Rutkowski J. (red.), 1995. Badania osadów czwartorzędowych, wybrane metody i interpretacja wyników. Warszawa.	
	Supplementary literature	Mycielska-Dowgiałło E., Rutkowski J. (red.), 2009. Badania cech teksturalnych osadów czwartorzędowych i wybrane metody oznaczania ich wieku. Warszawa. Pelisiak A., Gębica P. 2007. Podstawy geomorfologii i gleboznawstwa dla archeologów. Rzeszów. Pollard A.M. 1999. Geoarchaeology: an introduction. W: A.M. Pollard (ed.), Geoarchaeology: explorations, environments, resources. Geological Society Special Publications 165. Renfrew A.C. 1976. Archaeology and the Earth Sciences. W: D.A. Davidson, M.L. Shackley (eds), Geoarchaeology: Earth Science and the past. London.	
	eResources addresses		
Example issues/ example questions/ tasks being completed	Methodology of field geological and geophysical investigations used in archaeology.		

Work placement	Not applicable
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