

Subject card

Subject name and code	Geophysics - laboratory classes, PG_00193072						
Field of study	Geology						
Date of commencement of studies	October 2026	Academic year of realisation of subject			2027/2028		
Education level	Bachelor's studies	Subject group			Obligatory subject group in the field of study 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	2	Language of instruction			Polish		
Semester of study	3	ECTS credits			1.0		
Learning profile	academic	Assessment form			credit		
Conducting unit	Department of Geophysics -> Faculty of Oceanography and Geography -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Marcin Paszkuta				
	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						
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		1.0		9.0	25
Subject objectives	Acquiring the ability to analyse seismograms and magnetometer records.						

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	is able to identify geological objects on the basis of data geophysical data	[SK3] text preparation/written work
	[GEOLL3_U06] is able to identify geological objects and combine them with geological processes and anthropogenic environmental transformations	knows and understands basic geophysical phenomena	[SU3] text preparation/written work
	[GEOLL3_W02] knows and understands the terminology appropriate in science and natural sciences	is able to use geophysical information in the field of geological issues	[SW3] text preparation/written work
	[GEOLL3_U02] has the skill of analytical and synthetic way of reasoning leading to correct inference based on the results obtained or the facts presented	has the ability to analytically and synthetically reasoning leading to correct inferences based on gravimetric and seismic data	[SU3] text preparation/written work
	[GEOLL3_W01] knows and understands the basic natural phenomena and explains their course in relation to geological processes	knows and understands the terminology specific to geophysics	[SW3] text preparation/written work
	[GEOLL3_U03] is able to use source information in Polish and English, including archival and electronic databases, in the field of geological issues	is ready to be cautious and critical in receiving information from scientific literature, the Internet and other media relating to geophysics	[SU3] text preparation/written work
[GEOLL3_W04] knows and understands phenomena and processes occurring in the past and today in the interior of the Earth and on its surface, defines the methods of how to study them	knows and understands the phenomena and processes occurring in the past and phenomena and processes occurring in the past and contemporary in the Earth interior and on its surface, defines geophysical methods of their study	[SW3] text preparation/written work	
Subject contents	Application of seismic methods in geological research: reflection seismic, refraction seismic. Application of gravity methods		
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	<ol style="list-style-type: none"> 1. Lowrie W., 2007. Fundamentals of Geophysics, Wyd. Cambridge University Press 2. Fajklewicz Z., (red.), 1972. Zarys geofizyki stosowanej, Wyd. Geologiczne, Warszawa 3. Stenzel P., Szymanko J., 1973. Metody geofizyczne w badaniach hydrologicznych i geologiczno-inżynierskich, Wyd. Geologiczne, Warszawa 4. Reynolds J.M., 1997. An Introduction to Applied and Environmental Geophysics, Wiley & Sons 5. Telford W.M., Geldart L.P., Sheriff R.E., 1990. Applied Geophysics, Cambridge Univ. Press 6. Journal of Geophysical Research, The Official Magazine of the American Geophysical Union, http://www.agu.org/journals/jgr/ 	
	Supplementary literature	<ol style="list-style-type: none"> 1. Resnick R., Halliday D., 1980. Fizyka dla studentów nauk przyrodniczych i technicznych. Tom I, II. Wydanie VI, Wyd. Naukowe PWN, Warszawa 2. Mortimer Z., 2004. Zarys fizyki Ziemi, Uczelniane Wydawnictwa Naukowo-Dydaktyczne, Kraków 	
	eResources addresses		
Example issues/ example questions/ tasks being completed	Application of seismic methods in geological studies: reflection seismic, refraction seismic. Application of gravity methods		
Work placement	Not applicable		

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