

Subject card

Subject name and code	, PG_00120925						
Field of study	Geology						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2027/2028		
Education level	Bachelor's 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		credit		
Conducting unit	Department of Geophysics -> Faculty of Oceanography and Geography -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Leszek Łęczyński				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	0.0	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		7.0		10.0	32
Subject objectives	To introducing students to the basics of geological and geophysical survey methods in the polar zone.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[GEOLL3_W02] knows and understands the terminology appropriate in science and natural sciences		knows and understands terminology specific to the sciences and natural sciences including polar areas		[SW4] test/exam - oral or written		
	[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 today in the polar areas, defines the methods of their study		[SW4] test/exam - oral or written		
	[GEOLL3_W01] knows and understands the basic natural phenomena and explains their course in relation to geological processes		knows and understands the basic natural phenomena and explains their course in relation to the geological processes occurring in the polar areas		[SW4] test/exam - oral or written		

Subject contents	History of Polish Arctic research		
	Climate of the Arctic		
	Sea ice, glaciers and ice sheets of the Arctic		
	Magnetic storms - Auroras		
	Geophysical research in the Arctic		
	Geological structure of the Arctic		
	Morphodynamic characteristics of the polar coastal zone		
	Glacial influence on the morphology of fjord bottoms		
	Glacio-marine sedimentation in the Arctic seas		
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	Jania J.,1988, Zrozumieć lodowce. Wydawnictwo Śląsk Jania J.,1997, Glacjologia. Wydawnictwo Naukowe PWN	
	Supplementary literature	Lowrie W., 2007, Fundamentals of Geophysics, Wyd. Cambridge University Press Marcinek J.,1991, Lodowce kuli ziemskiej. Wydawnictwo Naukowe PWN Styszyńska A., 2005. Przyczyny i mechanizmy współczesnego (1982-2002) ocieplenia atlantyckiej Arktyki. Wydawnictwo Akademii Morskiej	
	eResources addresses		
Example issues/ example questions/ tasks being completed	Climate of the Arctic		
	Sea ice, glaciers and ice sheets of the Arctic		
Work placement	Not applicable		

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