

Subject card

Subject name and code	Geohazards - discussion classes, PG_00193013						
Field of study	Geology						
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	
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 Dominik Pałgan				
	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		1.0		9.0	25
Subject objectives	Acquisition of knowledge and skills in geohazards with a focus on the open sea and the marine coastal zone. Acquisition of skills to analyse selected geohazards based on databases and literature. Geological record of natural disasters with particular reference to offshore areas.						
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 geohazards.			[SW1] oral statement/ conversation/discussion [SW2] presentation/project/paper/ report		
	[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	is able to reason analytically and synthetically and to make correct conclusions based on the results obtained or facts presented in the field of geohazards.			[SU1] oral statement/conversation/ discussion [SU2] presentation/project/paper/ report		
	[GEOLL3_U03] is able to use source information in Polish and English, including archival and electronic databases, in the field of geological issues	is able to use source information, in Polish and English, including archival and electronic databases, relating to geohazards.			[SU1] oral statement/conversation/ discussion [SU2] presentation/project/paper/ report		
	[GEOLL3_W01] knows and understands the basic natural phenomena and explains their course in relation to geological processes	knows and understands the nature of basic natural phenomena and explains how they relate to processes that may constitute geohazards.			[SW1] oral statement/ conversation/discussion [SW2] presentation/project/paper/ report		
	[GEOLL3_U08] is able to write, report and properly illustrate scientific work in Polish and English on the basis of available sources on a selected topic in the field of geological issues	is able to write, present and appropriately illustrate scientific papers in Polish and English based on available sources on geohazards in the sea and its coastal zone.			[SU1] oral statement/conversation/ discussion [SU2] presentation/project/paper/ report		

Subject contents	Classification of geohazards, legal regulations - international and Polish. Gravitational mass movements on high coasts (landslides, caving, gravitational flows, etc.), submarine landslides and their effects. Hydrological and climatic hazards (floods, coastal erosion, storm surges) and their effects especially around the coasts. Geohazards associated with volcanism and seismic activity - determinants, forecasting, effects (including tsunamis and tectonic deformation).		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	presentation of the selected topic	51.0%	75.0%
	discussion	51.0%	25.0%
Recommended reading	Basic literature	MIZERSKI W., GRANICZNY M.: Geozagrozenia. Wyd. naukowe PWN, Warszawa 2017. Literature chosen by the student on their own.	
	Supplementary literature	GRANICZNY M., MIZERSKI W.: Katastrofy przyrodnicze. Wyd. naukowe PWN, Warszawa 2009. HYNDMAN D., HYNDMAN D.: Natural Hazards and disasters. Brooks/Cole/Cengage Learning, Belmont 2014. RAMOLA R. C., GUSAIN G. S.: Geo Hazards: Recent Research. 2015. YINCAN Ye: Marine Geo-Hazards in China. Elsevier, 2017.	
	eResources addresses		
Example issues/ example questions/ tasks being completed	Gravitational mass movements on high coasts (landslides, caving, gravitational flows, etc.), submarine landslides and their effects		
Work placement	Not applicable		

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