

Subject card

Subject name and code	Geohazards - discussion classes, PG_00198886						
Field of study	Marine Hydrography						
Date of commencement of studies	October 2026	Academic year of realisation of subject			2029/2030		
Education level	Bachelor's studies	Subject group			Obligatory subject group in the field of study Optional subject group Subject group related to practical vocational preparation		
Mode of study	full-time studies	Mode of delivery			at the university		
Year of study	4	Language of instruction			Polish		
Semester of study	7	ECTS credits			1.0		
Learning profile	practical	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 on geohazards with a focus on the marine coastal zone. Acquisition of skills to analyse selected geohazards from databases. Geological record of natural disasters.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[HML3-U08] is able to independently use the professional literature available in traditional and electronic form, make an assessment, critical analysis and synthesis as well as the correct interpretation of the information obtained		is able to use independently the professional literature available in traditional and electronic form, evaluate, critically analyse and synthesise and correctly interpret the information obtained in relation to a range of geohazards		[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report		
	[HML3-U03] is able to recognise natural (including geological) and anthropogenic objects and link them to the processes leading to their formation		is able to identify natural (including geological) and anthropogenic objects and link them to the processes leading to their formation and the possibility of them becoming a geohazard		[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report		
	[HML3-W02] knows and understands, at an advanced level, selected phenomena and processes occurring in the hydrosphere, atmosphere, lithosphere and biosphere, their interconnections and relations, as well as practical applications of this knowledge in professional activities related to the field of study		knows at an advanced level a selected phenomena and processes of the hydrosphere, atmosphere, lithosphere and biosphere, their interrelationships and relations, as well as practical applications of this knowledge in the analysis of geohazards and their consequences		[SW1] oral statement/conversation/discussion [SW2] presentation/project/paper/report		

Subject contents	Hazard classification, legal regulations - international and Polish. Gravitational mass movements on high coasts (landslides, calving, gravitational runoff, etc.), submarine landslides and their effects. Hydrological and climatic hazards (floods, coastal erosion, storm surges) and their effects. Volcanic and seismic hazards - conditions, forecasting, impacts (including tsunamis).		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	discussion	51.0%	25.0%
	presentation of the selected topic	51.0%	75.0%
Recommended reading	Basic literature	1. MIZERSKI W., GRANICZNY M.: Geozagrozenia. Wyd. naukowe PWN, Warszawa 2017.	
	Supplementary literature	1. GRANICZNY M., MIZERSKI W.: Katastrofy przyrodnicze. Wyd. naukowe PWN, Warszawa 2009. 2. HYNDMAN D., HYNDMAN D.: Natural Hazards and disasters. Brooks/Cole/Cengage Learning, Belmont 2014. 3. RAMOLA R. C., GUSAIN G. S.: Geo Hazards: Recent Research. 2015. 4. YINCAN Ye: Marine Geo-Hazards in China. Elsevier, 2017.	
	eResources addresses		
Example issues/ example questions/ tasks being completed	The class will discuss geohazards that pose challenges to conducting hydrographic work, such as tsunamis, cliff slides and storm surges.		
Work placement	Not applicable		

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