University of Gdańsk

Subject card

Subject name and code	, PG_00120928		
Field of study	Geology		
Date of commencement of studies	October 2024	Academic year of realisation of subject	2026/2027
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 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	8.0	24

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_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
[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

<table>
<tr><td>Subject contents</td><td colspan="3">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).</td></tr>
<tr><td>Prerequisites and co-requisites</td><td colspan="3"></td></tr>
<tr><td>Assessment methods and criteria</td><td colspan="3"><table>
<tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr>
<tr><td>presentation of the selected topic</td><td>51.0%</td><td>75.0%</td></tr>
<tr><td>discussion</td><td>51.0%</td><td>25.0%</td></tr>
</table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td colspan="2">MIZERSKI W., GRANICZNY M.: Geozagrożenia. Wyd. naukowe PWN, Warszawa 2017.

Literature chosen by the student on their own.</td></tr>
<tr><td>Supplementary literature</td><td colspan="2">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.</td></tr>
<tr><td>eResources addresses</td><td colspan="2"></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="3">Gravitational mass movements on high coasts (landslides, caving, gravitational flows, etc.), submarine landslides and their effects</td></tr>
<tr><td>Work placement</td><td colspan="3">Not applicable</td></tr>
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