University of Gdańsk

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-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
[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 thembecoming a geohazard	[SU1] oral statement/conversation/ discussion [SU2] presentation/project/paper/ report

<table>
<tr><td>Subject contents</td><td colspan="3">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).</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>discussion</td><td>51.0%</td><td>25.0%</td></tr>
<tr><td>presentation of the selected topic</td><td>51.0%</td><td>75.0%</td></tr>
</table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td colspan="2">1. MIZERSKI W., GRANICZNY M.: Geozagrożenia. Wyd. naukowe PWN, Warszawa 2017.</td></tr>
<tr><td>Supplementary literature</td><td colspan="2">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.</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">The class will discuss geohazards that pose challenges to conducting hydrographic work, such as tsunamis, cliff slides and storm surges.</td></tr>
<tr><td>Work placement</td><td colspan="3">Not applicable</td></tr>
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