University of Gdańsk

Subject card

Subject name and code	Sea Floor Geology - laboratory classes , PG_00201091						
Field of study	Marine Hydrography						
Date of commencement of studies	October 2026		Academic year of realisation of subject	2026/2027			
Education level	Bachelor's studies		Subject group	Obligatory subject group in the field of study Subject group related to practical vocational preparation			
Mode of study	full-time studies		Mode of delivery	at the university			
Year of study	1		Language of instruction	Polish			
Semester of study	2		ECTS credits	2.0			
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 Agnieszka Kubowicz				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	30.0	0.0	0.0	30
	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	30		2.0	18.0	50	
Subject objectives	To know and understand the genesis, geological structure and forms of topography of the bottom of ocean basins, types of bottom sediments and the regularity of their occurrence. Spatial interpretation of morphological-structural elements of the ocean floor on geological maps and their connection with geological processes.						

Learning outcomes

Course outcome	Subject outcome	Method of verification
[HML3-U14] is able to use the applicable terminology in presenting and discussing problems related to the field of study	is able to use terminology in describing the geological structure and morphology of the ocean and seabed	[SU1] oral statement/conversation/ discussion [SU3] text preparation/written work [SU4] test/exam - oral or written [SU5] implementation of a problem task
[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 analyze, based on source materials, the morphological and structural elements of the sea and ocean floor, the distribution of sediments and their relationship to geological processes	[SU2] presentation/project/paper/ report [SU4] test/exam - oral or written [SU5] implementation of a problem task
[HML3-K02] is ready to correctly determine the priorities in professional work for the implementation of a task specified by himself/ herself or others	is ready to complete individual and team work on time	[SK8] observation of student's independent or team work
[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 the causes and effects of geological processes in the marine environment	[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion [SW2] presentation/project/paper/ report [SW5] implementation of a problem task
[HML3-W01] knows and understands, at an advanced level, selected facts, phenomena and processes, as well as methods and theories concerning them, explaining the complex relationships between them, constituting basic general knowledge in the field of scientific disciplines forming the theoretical foundations specific to the field of study	knows at an advanced level the relationship of physical processes to geological processes in the marine environment	[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion [SW2] presentation/project/paper/ report [SW5] implementation of a problem task
[HML3-U16] is able to prepare in Polish and foreign language a study of a problem in the field of study with documented conclusions, supported by a report and a multimedia presentation	is able to prepare graphical studies, syntheses and conclusions of the conducted analyses individually and in a team	[SU2] presentation/project/paper/ report [SU5] implementation of a problem task
[HML3-U18] is able to work individually and in team, manage the work of the team, in particular comply with health and safety regulations and ergonomics	is able to prepare graphical studies, syntheses and conclusions of the conducted analyses individually and in a team	[SU3] text preparation/written work [SU5] implementation of a problem task [SU8] observation of student's independent or team work

Subject contents

Morphological units of the world ocean floor. Seismicity and volcanism in the world ocean. Hot spots. Hydrothermal processes. Types of lithosphere plate boundaries. The Triple Junction. Lithology and mineral composition of sediments. Genesis and morphological units of the Baltic Sea.

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
group and individual work (problem-based task, written assignment, oral presentation)	51.0%	40.0%
final test (written)	51.0%	60.0%

Recommended reading	Basic literature	Geographical Nomenclature of the World, 2008. book 10 Seas and Oceans, Central Office of Geodesy and Cartography, Warsaw, Poland Uścinowicz Sz., Kramarska R., 2011. Geological structure and bottom sediments of the Baltic Sea, [in:] Geochemistry of Baltic Sea surface sediments, Sz. Uścinowicz (ed.), PIG-BIP
	Supplementary literature	-
	eResources addresses	
Example issues/ example questions/ tasks being completed	Identify the types of triple-junction that occur between plates in the Pacific. Characterize the processes of spreading and subduction.	
Work placement	Not applicable	

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