

Subject card

Subject name and code	Sea floor geology - excercises, PG_00092776						
Field of study	Marine Hydrography						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2025/2026		
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				
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-U08] 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-W01] 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 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-W02] 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 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-U16] 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-U14] 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-U18] 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
	[HML3-K02] 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
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 Uścińowicz Sz., Kramarska R., 2011. Geological structure and bottom sediments of the Baltic Sea, [in:] Geochemistry of Baltic Sea surface sediments, Sz. Uścińowicz (ed.), PIG-BIP	

	Supplementary literature	-
	eResources addresses	Adresy na platformie eNauczanie:
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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