

Subject card

Subject name and code	Geology of marine sediments - exercises, PG_00091146						
Field of study	Geology						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2026/2027		
Education level	Bachelor's studies		Subject group		Obligatory subject group in the field of study		
Mode of study	full-time studies		Mode of delivery		at the university		
Year of study	2		Language of instruction		Polish		
Semester of study	3		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 Maria Rucińska				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	15.0	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		0.0		15.0	30
Subject objectives	To know and understand the conditions for the origin and transport of marine sediments and the distribution patterns of sediments in the seas and oceans.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[GEOLL3_U01] is able to apply basic measurement and analytical techniques in the field and in the laboratory, plans to conduct research and measurements		Be able to apply basic measurement and analytical techniques in the laboratory for marine sediment analysis		[SU2] presentation/project/paper/report [SU4] test/exam - oral or written [SU6] demonstration of practical skills [SU8] observation of student's independent or team work		
	[GEOLL3_W04] knows and understands phenomena and processes occurring in the past and today in the interior of the Earth and on its surface, defines the methods of how to study them		Knows and understands past and present phenomena and processes in the marine environment, with particular emphasis on the coastal zone of the sea, and defines the methods of their study		[SW2] presentation/project/paper/report [SW3] text preparation/written work		
	[GEOLL3_W02] knows and understands the terminology appropriate in science and natural sciences		Knows and understands terminology specific to marine sediment geology		[SW4] test/exam - oral or written [SW2] presentation/project/paper/report		
	[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		Has the ability to reason analytically and synthetically leading to correct conclusions based on the results obtained from marine sediment analyses		[SU2] presentation/project/paper/report [SU4] test/exam - oral or written [SU6] demonstration of practical skills [SU8] observation of student's independent or team work		
Subject contents	Application of marine sediment analysis methods Analysis of sediment characteristics and sedimentary structures Lithodynamic interpretation of results of marine sediment grain size distributions						

Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	written report	51.0%	10.0%
	written colloquium	51.0%	90.0%
Recommended reading	Basic literature	Bołatek J. (Ed.), 2010, Fizyczne, biologiczne i chemiczne badania morskich osadów dennych. Wydawnictwo UG Myślińska E., 1998. Laboratoryjne badania gruntów, Wydawnictwo PWN Racinowski R., Szczypek T., Wach J., 2001, Prezentacja i interpretacja wyników badań uziarnienia osadów czwartorzędowych. Wyd. Uniwersytetu Śląskiego	
	Supplementary literature	Blott S., Pye K., 2001. GRADISTAT: a grain size distribution and statistics package for the analysis of unconsolidated sediments. Earth Surface Processes and Landforms 26 Gao S., Collins M., 2001. The use of grain size trends in marine sediments dynamics: a review. Chinese Journal of Oceanology and Limnology, vol. 19/3	
	eResources addresses		
	Example issues/ example questions/ tasks being completed	Application of grain size analyses and other selected laboratory methods for the analysis of unknown marine sediment samples to interpret the environment and site of origin	
Work placement	Not applicable		

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