University of Gdańsk

Subject card

Subject name and code	Geology of marine sediments - lecture, PG_00191275		
Field of study	Geology		
Date of commencement of studies	October 2026	Academic year of realisation of subject	2027/2028
Education level	Bachelor's studies	Subject group	Obligatory subject group in the field of study Subject group related to scientific research 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	2.0
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	30.0	0.0	0.0	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	1.0	19.0	50

Subject objectives

To know and understand the conditions for the origin and transport of marine sediments and their distribution patterns in the seas and oceans.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[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	[SW4] test/exam - oral or written
[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

Subject contents

Marine sediment analysis methods
Sources of sedimentary material input to seas and oceans
Lithodynamics of the marine coastal zone
Sediment transport in the coastal zone of the seas and oceans
Sediment balance

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
written test with open questions	51.0%	100.0%

Recommended reading	Basic literature	Einsele G., 2000, Sedimentary Basins, Evolution, Facies, and Sediment Budget, Springer Davidson-Arnott R., 2010, Introduction to Coastal Processes and Geomorphology, Cambridge University Press Pruszak Z., 2014, Brzeg morski : procesy fizyczne obszaru płytko- i nadwodnego. Wydawnictwo IBW PAN, Gdańsk
	Supplementary literature	Bird E., 2008, Coastal Geomorphology, Wiley Nichols G., Wiliams E., Paola C., 2008. Sedimentary Processes, environments and basins. Blackwell Publishing Huneke H, Mulder T., 2011. Deep-Sea Sediments. Elsevier Science
	eResources addresses	
Example issues/ example questions/ tasks being completed	Sources of sedimentary material input to seas and oceans Lithodynamics of the marine coastal zone	
Work placement	Not applicable	

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