University of Gdańsk

Subject card

Subject name and code	Sedimentology - lecture, PG_00199521		
Field of study	Oceanography		
Date of commencement of studies	October 2027	Academic year of realisation of subject	2028/2029
Education level	Bachelor's studies	Subject group	Obligatory subject group in the field of study Optional subject group 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	exam
Conducting unit	Department of Geophysics -> Faculty of Oceanography and Geography -> Rector		
Name and surname of lecturer (lecturers)	Subject supervisor	dr Robert Sokołowski	
	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	2.0	18.0	50

Subject objectives

To gain a basic understanding of the subject and research methods in sedimentology, to become familiar with the main sedimentary environments.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[OCEANL3-W02] has a broad knowledge and understanding of physical, biological, chemical, and geological processes and phenomena occurring in aquatic environments, with particular emphasis on the marine environment	has a broad knowledge and understanding of the physical, biological, chemical and geological processes and phenomena occurring in the various sedimentary environments	[SW4] test/exam - oral or written
[OCEANL3-K03] is ready to exercise caution and criticism in accepting information from scientific literature, the Internet and other media relating to natural sciences	is prepared to exercise caution and criticism in accepting information from the scientific literature, the Internet and other media relating to sedimentology	[SK4] test/exam - oral or written
[OCEANL3-U01] is able to use the current scientific terminology in the field of oceanography in various forms of expression	is able to use current scientific terminology of sedimentology in aforementioned various forms of expression	[SU4] test/exam - oral or written
[OCEANL3-W01] has an advanced knowledge and understanding of the terminology used in oceanography and related exact and natural sciences (in Polish and a selected foreign language)	has an advanced knowledge and understanding of the terminology used in sedimentology	[SW4] test/exam - oral or written

Subject contents	Introduction: the subject of study, basic concepts Factors controlling sedimentary processes Glacial environment Aeolian environment Lake environment Fluvial environment Deltaic and tidal environments Marine evaporites Shallow Clastic Sea Coastal Zone Shallow-water carbonate environment Abyssal zone Volcanic environment Diagenesis and post-sedimentary structures
Prerequisites and co-requisites	

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
Exam	51.0%	100.0%

Recommended reading

Basic literature	Reading, H., (red.) 1996. Sedimentary environments: Processes, Facies and Stratigraphy. Blackwell Science. Nicols G. 2009, Sedimentology and Stratigraphy. Wiley-Blackwell, pp. 419. Demicco R.V., Bridge J.S. 2008, Earth Surface Processes, Landforms and Sediment Deposits. Cambridge University Press, pp. 815. Stow D.A.V. 2005, Sedimentary Rocks in the Field. Manson Publishing, pp. 320. Gradziński R., Kostecka A., Radomski A., Unrug R. 1986, Zarys Sedymentologii. Wydawnictwa Geologiczne, pp. 628. Zieliński, T., 2014. Sedymentologia osadów rzek i jezior. Wydawnictwo Naukowe UAM.
Supplementary literature	Benn D.I., Evans D.J.A. 2010, Glaciers and Glaciations. Hodder Education, pp. 802.
eResources addresses	

Example issues/ example questions/ tasks being completed	Process and sediment characteristics of a meandering river Processes and sediments in the silicoclastic coastal environment
Work placement	Not applicable

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