

Subject card

Subject name and code	Sedimentology - lecture, PG_00159305						
Field of study	Oceanography						
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 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 Sokółowski				
	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		12.0		18.0	60
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-U01		is able to use current scientific terminology of sedimentology in aforementioned various forms of expression		[SU4] test/exam - oral or written		
	OCEANL3-W02		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		[SK1] oral statement/conversation/discussion		
	OCEANL3-W01		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
	Written exam, obtaining a minimum of 51% of the points for the written credit according to the UG Academic Regulations	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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