

Subject card

Subject name and code		Sedimentology - lecture, PG_00199521						
Field of study		Oceanography						
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 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-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		
		[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-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		

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