

Subject card

Subject name and code	Sedimentology - lecture, PG_00091148						
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		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		15.0		25.0	70
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		
	[GEOLL3_W02] knows and understands the terminology appropriate in science and natural sciences		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		
	[GEOLL3_U03] is able to use source information in Polish and English, including archival and electronic databases, in the field of geological issues		is able to use source information, in Polish and English, including archival and electronic databases, on sedimentological issues		[SU4] test/exam - oral or written		
	[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 sedimentary phenomena and processes and defines methods for their research		[SW4] test/exam - oral or written		
	[GEOLL3_W01] knows and understands the basic natural phenomena and explains their course in relation to geological processes		knows and understands basic natural phenomena and explains how they relate to sedimentary processes		[SW4] test/exam - oral or written		
	[GEOLL3_U01] is able to apply basic measurement and analytical techniques in the field and in the laboratory, plans to conduct research and measurements		is able to apply basic measuring and analytical techniques in the field and laboratory, plan research and sedimentological measurements		[SU4] 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	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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