University of Gdańsk

Subject card

Subject name and code	Sedimentology - laboratory , PG_00206135						
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		credit		
Conducting unit	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	0.0	0.0	30.0	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	Conducting laboratory sedimentological research, interpretation of depositional environments, application of sedimentological research in the aforementioned various fields of earth sciences.						

Learning outcomes

Course outcome	Subject outcome	Method of verification
[OCEANL3-W05] has an advanced knowledge of techniques, research methods, and tools (mathematical, statistical, and computational) used by oceanographers to describe and interpret processes and phenomena occurring in the marine environment	has an advanced understanding of the techniques, research methods and tools (mathematical, statistical, IT) used in the aforementioned laboratory sedimentological research	[SW2] presentation/project/paper/ report
[OCEANL3-U01] is able to use the current scientific terminology in the field of oceanography in various forms of expression	is able to use the current scientific terminology of sedimentology	[SU3] text preparation/written work
[OCEANL3-U02] is able to independently and collaboratively conduct observations and perform measurements in the field or laboratory using appropriately selected techniques, tailored to the research problem	is able to make observations and take measurements in the laboratory, individually and in a team, using suitably adapted research techniques in the field of sedimentology	[SU2] presentation/project/paper/ report
[OCEANL3-U05] is able to use general-purpose and specialized software, as well as mathematical and statistical methods, in data analysis and the presentation of results	is able to use application and specialised software, as well as mathematical and statistical methods in the analysis of data and presentation of results of sedimentological research	[SU2] presentation/project/paper/ report [SU3] text preparation/written work
[OCEANL3-U03] is able to process, describe, and present results, and draw conclusions	is able to process, describe and present the results of laboratory sedimentological research and draw conclusions	[SU2] presentation/project/paper/ report [SU3] text preparation/written work
[OCEANL3-U11] is able to work individually and collaborate in a team, assuming various roles and performing different tasks	is able to work individually as well as collaboratively in a group with various functions and tasks in the laboratory and in the preparation of results of sedimentological research	[SU3] text preparation/written work

Subject contents

Introduction to laboratory methods for the examination of clastic sediments

Granulometric analysis

Analysis of the dressing and surface character of mineral grains

Petrographic characteristics of sediments

Statistical compilation and synthesis of results of laboratory analyses

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
completion of a course work - project or presentation	51.0%	100.0%

Recommended reading

Basic literature

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.

Reading, H., (red.) 1996, Sedimentary Environments: Processes, Facies and Stratigraphy, 3rd Edition pp. 704.

Gradziński R., Kostecka A., Radomski A., Unrug R. 1986, Zarys Sedymentologii. Wydawnictwa Geologiczne, pp. 628.

	Supplementary literature	Racinowski R., Szczypek T., Wach J. 2001, Prezentacja i interpretacja wyników badań uziarnienia osadów czwartorzędowych. Wydaw. Uniwersytetu Śląskiego, Katowice.
	eResources addresses	
Example issues/ example questions/ tasks being completed	Analysis and interpretation of the results of the greanulometric analysis	
Work placement	Not applicable	

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