University of Gdańsk

Subject card

Subject name and code	Sedimentology - laboratory exercises, PG_00118114						
Field of study	Oceanography						
Date of commencement of studies	October 2024		Academic year of realisation of subject	2025/2026			
Education level	undergraduate 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 Polish			
Semester of study	3		ECTS credits	2.0			
Learning profile	academic		Assessment form				
Conducting unit	Faculty of Oceanography and Geography						
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		0.0	0.0	30	
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 understanding of the techniques, research methods and tools (mathematical, statistical, IT) used in the aforementioned laboratory sedimentological research	[SW2] presentation/project/paper/ report
OCEANL3-U05	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 the results of laboratory sedimentological research and draw conclusions	[SU2] presentation/project/paper/ report [SU3] text preparation/written work
OCEANL3-U01	is able to use the current scientific terminology of sedimentology	[SU1] oral statement/conversation/ discussion
OCEANL3-U02	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-U11	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 [SU8] observation of student's independent or team 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	Adresy na platformie eNauczanie:
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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