University of Gdańsk

Subject card

Subject name and code	Geology of marine sediments - laboratory classes, PG_00193073		
Field of study	Geology		
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
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	1.0
Learning profile	academic	Assessment form	credit
Conducting unit	Department of Geophysics -> Faculty of Oceanography and Geography -> Rector		
Name and surname of lecturer (lecturers)	Subject supervisor	dr Maria Rucińska	
	Teachers		

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	0.0	0.0	15.0	0.0	0.0	15

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	15	1.0	9.0	25

Subject objectives

To know and understand the conditions for the origin and transport of marine sediments and the distribution patterns of sediments in the seas and oceans.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[GEOLL3_W02] knows and understands the terminology appropriate in science and natural sciences	Knows and understands terminology specific to marine sediment geology	[SW4] test/exam - oral or written [SW2] presentation/project/paper/ report
[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 phenomena and processes in the marine environment, with particular emphasis on the coastal zone of the sea, and defines the methods of their study	[SW2] presentation/project/paper/ report [SW3] text preparation/written work
[GEOLL3_U01] is able to apply basic measurement and analytical techniques in the field and in the laboratory, plans to conduct research and measurements	Be able to apply basic measurement and analytical techniques in the laboratory for marine sediment analysis	[SU2] presentation/project/paper/ report [SU4] test/exam - oral or written [SU6] demonstration of practical skills [SU8] observation of student's independent or team work
[GEOLL3_U02] has the skill of analytical and synthetic way of reasoning leading to correct inference based on the results obtained or the facts presented	Has the ability to reason analytically and synthetically leading to correct conclusions based on the results obtained from marine sediment analyses	[SU2] presentation/project/paper/ report [SU4] test/exam - oral or written [SU6] demonstration of practical skills [SU8] observation of student's independent or team work

Subject contents

Application of marine sediment analysis methods
Analysis of sediment characteristics and sedimentary structures
Lithodynamic interpretation of results of marine sediment grain size distributions

<table>
<tr><td>Prerequisites and co-requisites</td><td colspan="2"></td></tr>
<tr><td>Assessment methods and criteria</td><td colspan="2"><table>
<tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr>
<tr><td>written colloquium</td><td>51.0%</td><td>90.0%</td></tr>
<tr><td>written report</td><td>51.0%</td><td>10.0%</td></tr>
</table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td>Bolałek J. (Ed.), 2010, Fizyczne, biologiczne i chemiczne badania morskich osadów dennych. Wydawnictwo UG

Myślińska E., 1998. Laboratoryjne badania gruntów, Wydawnictwo PWN

Racinowski R., Szczypek T., Wach J., 2001, Prezentacja i interpretacja wyników badań uziarnienia osadów czwartorzędowych. Wyd. Uniwersytetu Śląskiego</td></tr>
<tr><td>Supplementary literature</td><td>Blott S., Pye K., 2001. GRADISTAT: a grain size distribution and statistics package for the analysis of unconsolidated sediments. Earth Surface Processes and Landforms 26

Gao S., Collins M., 2001. The use of grain size trends in marine sediments dynamics: a reviwe. Chinese Journal of Oceanology and Limnology, vol. 19/3</td></tr>
<tr><td>eResources addresses</td><td></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="2">Application of grain size analyses and other selected laboratory methods for the analysis of unknown marine sediment samples to interpret the environment and site of origin</td></tr>
<tr><td>Work placement</td><td colspan="2">Not applicable</td></tr>
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