

Subject card

Subject name and code	Petrography of Quaternary Sediments - lecture, PG_00205023						
Field of study	Oceanography						
Date of commencement of studies	October 2026	Academic year of realisation of subject			2027/2028		
Education level	Master'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			1.0		
Learning profile	academic	Assessment form			exam		
Conducting unit							
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Piotr Woźniak				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	0.0	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	Familiarization with the methodology and methods of petrographic research of Quaternary sediments. Presentation of the basic characteristics of indicator erratic rocks allowing for their identification. Familiarization with the possibilities of using petrographic studies in comprehensive studies of Quaternary sediments.						
Learning outcomes	Course outcome		Subject outcome			Method of verification	
	[OCEANMU2-W02] knows and understands complex processes and phenomena occurring in the marine environment, with particular emphasis on the coastal zone, as well as complex relationships between living and non-living elements of the aquatic environment		Knows and understands the complex relationships between inanimate components of the environment affecting the diversity of the petrographic composition of Quaternary sediments.			[SW4] test/exam - oral or written	
	[OCEANMU2-W05] knows and understands the principles of planning and conducting field and laboratory research as well as advanced methods and tools of scientific research, especially in the field of the studied speciality		Knows and understands basic and advanced methods of petrographic research used in comprehensive studies of Quaternary sediments.			[SW4] test/exam - oral or written	

Subject contents	<ol style="list-style-type: none"> 1. Evolution of petrographic research methods of Quaternary sediments. 2. Petrography of non-glacial Quaternary sediments. 3. Factors determining the diversity of the petrographic composition of glacial sediments. 4. Methods of analysis of the petrographic composition of glacial sediments. 5. Indicator erratic rocks in the study of glacial sediments. 6. Problems of interpretation of petrographic analysis results. 7. Analyses accompanying petrographic studies of Quaternary sediments. 8. Archaeopetrographic research. 9. Erratic boulders as research and geotourist objects. 		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	test/egzam	51.0%	100.0%
Recommended reading	Basic literature	<p>Benn D. I., Evans D. J. A., 1998, Glacier & glaciation, Arnold, London.</p> <p>Bennet M., Glasser N. F., 2009, Glacial geology: ice sheets and landforms, John Wiley & Sons, Chichester.</p> <p>Czubla P., 2001, Eratyki fennoskandzkie w utworach czwartorzędowych Polski Środkowej i ich znaczenie stratygraficzne, Acta Geographica Lodziensia, 80: 1-174.</p> <p>Harasimiuk M., Terpiłowski S. red., 2003, Analizy sedymentologiczne osadów glacygenicznych, Wyd. UMCS, Lublin.</p> <p>Król D., Woźniak P. P., Zakrzewski L., 2004, Kamienie szwedzkie w kulturze i sztuce Pomorza, Muzeum Archeologiczne w Gdańsku, Gdańsk.</p> <p>Mycielska-Dowgiałło E. i Rutkowski J. red., 2007, Badania cech teksturalnych osadów czwartorzędowych..., Wyd SWPR, W-wa.</p> <p>Tylmann K., Woźniak P.P., Rinterknecht V. R., 2018, Erratics selection for cosmogenic nuclide exposure dating an optimization approach. Baltica, 31 (2): 100114.</p> <p>Smed P., 1994, Steine aus dem Norden, Gebrüder Borntraeger, Berlin</p> <p>Schulz W., 2003, Geologischer Führer für den norddeutschen Geschiebesammler, cw Verlagsgruppe, Schwerin.</p> <p>Woźniak P.P., Tylmann K., Kobiela A., 2015, Głazy narzutowe Trójmiejskiego Parku Krajobrazowego potencjał badawczy i geoturystyczny, Przegląd Geologiczny, 63, 4: 256262.</p> <p>Zandstra J. G., 1999, Platenatlas van noordelijke kristallijne gidsgesteenten, Backhuys, Leiden.</p>	
	Supplementary literature	<p>Czubla P., Gałązka D., Górka M., 2006, Eratyki przewodnie w glinach morenowych Polski, Prz. Geol., 54, 4: 352-362.</p> <p>Górka M., 2000, Advantages and disadvantages of petrographical analyses of glacial sediments, Geol. Quart., 43 (2): 241-250.</p>	
	eResources addresses		

Example issues/ example questions/ tasks being completed	Provide the distinguishing features of the selected indicator erratic rock. Explain the effect of petrographic type on clast morphology.
Work placement	Not applicable

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