University of Gdańsk

Subject card

Subject name and code	Quaternary geology - laboratory classes, PG_00193045						
Field of study	Geology						
Date of commencement of studies	October 2026		Academic year of realisation of subject		2028/2029		
Education level	Bachelor's studies		Subject group		Obligatory subject group in the field of study 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	3		Language of instruction		Polish		
Semester of study	6		ECTS credits		2.0		
Learning profile	academic		Assessment form		credit		
Conducting unit	Laboratory of Geomorphological Reconstructions -> Department of Geomorphology and Quaternary Geology -> Faculty of Oceanography and Geography -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Karol Tylmann				
	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		2.0		33.0	50
Subject objectives	Getting to know the research topics, mastering definitions and terms specific to Quaternary research, learning about research methods and their application in a wide scientific and applied spectrum.						

Learning outcomes

Course outcome	Subject outcome	Method of verification
[GEOLL3_K01] is willing to plan and implement, individually or as a team, the next stages of the entrusted task, take responsibility for its results, effectively cooperate in the team by performing various roles in it	Plans and implements, individually or as a team, the subsequent stages of the entrusted task related to the geology of the Quaternary, is responsible for its results, effectively cooperates in a team performing various roles in it.	[SK8] observation of student's independent or team work
[GEOLL3_W01] knows and understands the basic natural phenomena and explains their course in relation to geological processes	Knows and understands the processes and phenomena occurring in different palaeoenvironments in the Quaternary.	[SW2] presentation/project/paper/ report
[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, in the field of Quaternary science.	[SU2] presentation/project/paper/ report
[GEOLL3_U08] is able to write, report and properly illustrate scientific work in Polish and English on the basis of available sources on a selected topic in the field of geological issues	Is able to write, present and appropriately illustrate a scientific paper in Polish and English on the basis of available sources on a selected topic in the field of Quaternary science.	[SU3] text preparation/written work
[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 phenomena and processes occurring in Quaternary, defines methods of their study.	[SW2] presentation/project/paper/ report

Subject contents

Methodology of Quaternary sedimentary research; preparation and presentation of a selected issue of Quaternary research on the basis of the literature; group project - analysis and interpretation of research results.

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
In-class activity	51.0%	20.0%
Evaluation of exercises performed by students	51.0%	80.0%

Recommended reading

Basic literature	Stankowski, W., 1996. Introduction to Cenozoic geology with special focus on territory of Poland. Wyd. UAM, Poznań. Mycielska-Dowgiałło, E. (red.) 1998. Sedimentary and post-sedimentary structures in Quaternary deposits and its interpretation potential. WGiSR UW. Mojski, J.E., 2005. Territory of Poland in Quaternary. Państwowy Instytut Gegologiczny, Warszawa. Widera, M., (ed.) 2009. Geology of Cenozoic on Polish Lowland: a quide for field classes in cenozoic geology and geomorphology. Wyd. UAM, Poznań. Zieliński, T., 2014. Sedimetology: Deposits of rivers and lakes. Wyd. UAM, Poznań
Supplementary literature	Ehlers, J., Gibbard, P.L., Hughes, P.D., (eds.) 2011. Quaternary Glaciations: Extent and Chronology. Elsevier, Amsterdam.
eResources addresses	

Example issues/ example questions/ tasks being completed

Make a geological cross-section based on the given drillings and interpret the geological structure based on the cross-section.

Perform tasks related to sediment dating and processes.

Perform a lithofacial profile and interpret the sedimentation environments of the sedimentation.

Work placement

Not applicable

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