

Subject card

Subject name and code	Quaternary geology - lecture, PG_00091124						
Field of study	Geology						
Date of commencement of studies	October 2025		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	3		Language of instruction		Polish		
Semester of study	6		ECTS credits		2.0		
Learning profile	academic		Assessment form		exam		
Conducting unit	Department of Geophysics -> Faculty of Oceanography and Geography -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Robert Sokółowski				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	20.0	0.0	0.0	0.0	0.0	20
	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	20		12.0		15.0	47
Subject objectives	Understanding of geological processes in the Quaternary, chronology and genesis of geological processes, research methods, paleoclimatology, emergence and role of humans in shaping the environment in the late Quaternary						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[GEOLL3_K03] is willing to exercise caution and criticism in receiving information from scientific literature, the Internet and other media related to natural sciences		Is prepared to be cautious and critical in accepting information from scientific literature, the internet and other media relating to Quaternary geology		[SK4] test/exam - oral or written		
	[GEOLL3_W05] knows the structure and geological development of selected regions in Poland and in the world		Knows the structure and geological development of selected regions in Poland and worldwide in the Quaternary period		[SW4] test/exam - oral or written		
	[GEOLL3_U03] is able to use source information in Polish and English, including archival and electronic databases, in the field of geological issues		Be able to use reference information, in Polish and English, including archival and electronic databases, on Quaternary geology		[SU4] test/exam - oral or written		
	[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 the phenomena and processes occurring in the Quaternary, defines methods for their research		[SW4] test/exam - oral or written		
	[GEOLL3_W01] knows and understands the basic natural phenomena and explains their course in relation to geological processes		Knows and understands the basic natural phenomena and explains them in relation to the geological processes taking place in the Quaternary period		[SW4] test/exam - oral or written		

Subject contents	Subject and history of research, basic concepts. Stratigraphy of the Quaternary in the world and in Poland. Research of marine, lacustrine sediments and ice cores. Palaeoclimatology of the Quaternary. The role of Pleistocene glaciations in shaping sedimentary environments. Main sedimentary environments of Poland and Europe in the Quaternary. Preglacial Quaternary in Europe and Poland. Quaternary glacial in Europe and Poland. Late Glacial and Holocene in Europe and Poland. Appearance and evolution of hominids		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Written exam	51.0%	100.0%
Recommended reading	Basic literature	Stankowski, W., 1996. Wstęp do geologii kenozoiku ze szczególnym odniesieniem do terytorium Polski. Wyd. UAM, Poznań. Mycielska-Dowgiałło, E. (red.) 1998. Struktury sedimentacyjne i postsedymantacyjne w osadach czwartorzędowych i ich wartość interpretacyjna. WGiSR UW. Mojski, J.E., 2005. Ziemie polskie w czwartorzędzie. Państwowy Instytut Geologiczny, Warszawa. Widera, M., (red.) 2009. Geologia kenozoiku Niżu Polskiego: przewodnik do ćwiczeń terenowych z geologii kenozoiku i geomorfologii. Wyd. UAM, Poznań. Ehlers, J., Gibbard, P.L., Hughes, P.D., (eds.) 2011. Quaternary Glaciations: Extent and Chronology. Elsevier, Amsterdam.	
	Supplementary literature	Zieliński, T., 2014. Sedymetologia. Osady rzek i jezior. Wyd. UAM, Poznań Elias SA. (ed.). 2013. Encyclopedia of Quaternary Science, 3rd edition. Elsevier Science B.V., Amsterdam, Netherlands	
	eResources addresses		
Example issues/ example questions/ tasks being completed	1. What are the research methods for ice cores? 2. What is the European Sand Belt and when did it function?		
Work placement	Not applicable		

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