

Subject card

Subject name and code	, PG_00120920						
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		Optional subject group		
Mode of study	full-time studies		Mode of delivery		at the university		
Year of study	3		Language of instruction		Polish		
Semester of study	5		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 Robert Sokołowski				
	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		7.0		8.0	30
Subject objectives	Understanding of the basic methods of field sedimentological research, including mapping of exposures, preparation of field documentation, making profiles of exposures, lithofacial analysis, measurement of directional elements, analysis of facies						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[GEOLL3_U05] can reconstruct the history of geological development of selected regions in Poland and in the world on the basis of maps, cross-sections and exposures in the field	Be able to reconstruct the history of geological development of selected regions in Poland and worldwide on the basis of field sedimentological research	[SU2] presentation/project/paper/report
	[GEOLL3_K02] is willing to take full responsibility in the field of actions taken and to comply with the principles of professional ethics and intellectual honesty, is aware of the importance of a professional approach in every situation	is willing to take full responsibility for the field sedimentological research undertaken and to observe the principles of professional ethics and intellectual honesty, and is aware of the importance of a professional approach in all situations	[SK1] oral statement/conversation/discussion [SK6] demonstration of practical skills
	[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 on the basis of field sedimentological research	[SW2] presentation/project/paper/report
	[GEOLL3_W03] knows and identifies paleontological, mineralogical, petrographic and structural objects using appropriate methods	Knows and identifies sedimentary units of different orders using appropriate field research methods	[SW2] presentation/project/paper/report
	[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 field during sedimentological research, plan research and measurements	[SU1] oral statement/conversation/discussion [SU8] observation of student's independent or team 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 sedimentary processes, defines methods to research them	[SW2] presentation/project/paper/report
	[GEOLL3_W01] knows and understands the basic natural phenomena and explains their course in relation to geological processes	Knows and understands basic sedimentary processes and explains how they relate to geological processes	[SW2] presentation/project/paper/report
	[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	Is ready to plan and carry out, individually or in a team, the successive stages of sedimentological research, take responsibility for its results, interact effectively in a team with different roles	[SK8] observation of student's independent or team work
	[GEOLL3_K05] is willing to comply with the principles of occupational safety and health, takes care of specialized equipment entrusted to them, is aware of the risk connected with the performed work	Is willing to follow health and safety rules, take care of the specialised equipment entrusted to him during field sedimentological research	[SK1] oral statement/conversation/discussion [SK8] observation of student's independent or team work
	[GEOLL3_W08] knows the basic principles of occupational health and safety, legal regulations conditioning geological and engineering activities	Is familiar with the basic principles of occupational health and safety, legal regulations conditioning field sedimentological research	[SW1] oral statement/conversation/discussion [SW5] implementation of a problem task
	[GEOLL3_U10] is able to work individually and cooperate in laboratory and field groups performing various functions in them and performing various tasks	Able to work individually and collaboratively in groups during research in the aforementioned field by performing a variety of functions and tasks in the field of sedimentology	[SU8] observation of student's independent or team work
	[GEOLL3_U06] is able to identify geological objects and combine them with geological processes and anthropogenic environmental transformations	Be able to identify depositional units of different order and link them to geological processes and anthropogenic environmental transformations	[SU2] presentation/project/paper/report [SU6] demonstration of practical skills
Subject contents	Description of indicator features of clastic sediments in different fossiliferous sedimentation environments. Techniques for profiling unconsolidated sediments, basics of lithofacial analysis and directional elements. Identification of cyclicity in continental sediments. Identification and interpretation of palaeoenvironments of sedimentation.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Written paper for assessment	66.0%	100.0%

Recommended reading	Basic literature	Lewis, D.W., McConchie, D.M., 1994. Practical Sedimentology. Springer. Allen, P.A., Allen, J.R., 2004. Basin Analysis: Principles and Applications, Wiley-Blackwell Bridge, S., Demicco, R., 2008. Earth Surface Processes, Landforms and Sediment Deposits, Cambridge University Press Einsele, G., 2002. Sedimentary Basins Evolution, Facies, and Sediment Budget, Springer-Verlag, USA Reading, H.G., (red.), 2003. Sedimentary environments: processes, facies and stratigraphy, Blackwell Science
	Supplementary literature	Harasimiuk, M., Terpiłowski, S., 2003. Analizy sedymentologiczne osadów glacyogenicznych, UMCS, Lublin Zieliński, T., 2014. Sedymentologia. Osady rzek i jezior. Wydawnictwo Naukowe UAM, Poznań.
	eResources addresses	
Example issues/ example questions/ tasks being completed	Preparation of a lithofacial profile of the exposure	
Work placement	Not applicable	

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