

**Subject card**

<b>Subject name and code</b>	, PG_00120920						
<b>Field of study</b>	Geology						
<b>Date of commencement of studies</b>	October 2024	<b>Academic year of realisation of subject</b>			2026/2027		
<b>Education level</b>	Bachelor's studies	<b>Subject group</b>			Optional subject group		
<b>Mode of study</b>	full-time studies	<b>Mode of delivery</b>			at the university		
<b>Year of study</b>	3	<b>Language of instruction</b>			Polish		
<b>Semester of study</b>	5	<b>ECTS credits</b>			1.0		
<b>Learning profile</b>	academic	<b>Assessment form</b>			credit		
<b>Conducting unit</b>	Department of Geophysics -> Faculty of Oceanography and Geography -> Rector						
<b>Name and surname of lecturer (lecturers)</b>	<b>Subject supervisor</b>		dr Robert Sokołowski				
	<b>Teachers</b>						
<b>Lesson types</b>	<b>Lesson type</b>	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	<b>Number of study hours</b>	0.0	0.0	15.0	0.0	0.0	15
	E-learning hours included: 0.0						
<b>Learning activity and number of study hours</b>	<b>Learning activity</b>	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	<b>Number of study hours</b>	15		7.0		8.0	30
<b>Subject objectives</b>	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_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
	[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_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_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_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_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_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_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_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_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_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_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	
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	<p>Lewis, D.W., McConchie, D.M., 1994. Practical Sedimentology. Springer.</p> <p>Allen, P.A., Allen, J.R., 2004. Basin Analysis: Principles and Applications, Wiley-Blackwell</p> <p>Bridge, S., Demicco, R., 2008. Earth Surface Processes, Landforms and Sediment Deposits, Cambridge University Press</p> <p>Einsele, G., 2002. Sedimentary Basins Evolution, Facies, and Sediment Budget, Springer-Verlag, USA</p> <p>Reading, H.G., (red.), 2003. Sedimentary environments: processes, facies and stratigraphy, Blackwell Science</p>
	Supplementary literature	<p>Harasimiuk, M., Terpiłowski, S., 2003. Analizy sedymentologiczne osadów glacialnych, UMCS, Lublin</p> <p>Zieliński, T., 2014. Sedymentologia. Osady rzek i jezior. Wydawnictwo Naukowe UAM, Poznań.</p>
	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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