University of Gdańsk

Subject card

Subject name and code	Field classes - Hydrogeology and applied geology I, PG_00199152						
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 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	3		Language of instruction		Polish		
Semester of study	5		ECTS credits		2.0		
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 hab. Leszek Łęczyński				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	20.0	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		3.0		27.0	50
Subject objectives	Practical introduction to selected fieldwork methods used in applied geology and hydrogeology						

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	is able to plan and carry out individually or in a team the successive stages of a task in the field of hydrogeology and applied geology delegated to him/her, take responsibility for the results, interact effectively in a team with a variety of roles	[SK5] implementation of a problem task
[GEOLL3_W06] knows statistical and IT tools as well as the principles of preparing engineering and geological documentation and cartographic materials	is familiar with statistical and IT tools and with the principles of geological-engineering documentation	[SW5] implementation of a problem task
[GEOLL3_W08] knows the basic principles of occupational health and safety, legal regulations conditioning geological and engineering activities	knows the basic principles of occupational health and safety, legal regulations conditioning geological, engineering and hydrogeological activities	[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 able to apply the basic principles of occupational health and safety during the implementation of field work	[SK8] observation of student's independent or team work
[GEOLL3_U02] has the skill of analytical and synthetic way of reasoning leading to correct inference based on the results obtained or the facts presented	has the ability to reason analytically and synthetically, leading to correct conclusions based on the results obtained or facts presented in engineering and hydrogeological	[SU5] implementation of a problem task
[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 ready to take full responsibility for the legal consequences of non-compliance with the rules of intellectual property protection	[SK5] implementation of a problem task
[GEOLL3_U06] is able to identify geological objects and combine them with geological processes and anthropogenic environmental transformations	is able to identify the anthropogenic transformation of the natural environment, including the effects of anthropogenic transformation of the environment	[SU8] observation of student's independent or team work
[GEOLL3_U01] is able to apply basic measurement and analytical techniques in the field and in the laboratory, plans to conduct research and measurements	is able to apply basic measuring and analytical techniques in the field, plan research and measurements in hydrogeology and applied geology	[SU5] implementation of a problem task

Subject contents

Development of a piezometer documentation sheet.Development of a sounding documentation sheet.Hydrogeological drilling service. Development of simplified documentation for a selected engineering facility.

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
credit work	51.0%	100.0%

Recommended reading

Basic literature	Bażyński J., Drągowski A., Frankowski Z., Kaczyński R., Rybicki S., Wysokiński L. Zasady Sporządzania Dokumentacji Geologiczno-Inżynierskich. Państwowy Instytut Geologiczny, Warszawa 1999. Kleczkowski A.S., Różkowski A. i inni (1997): Słownik hydrogeologiczny. Wydawnictwo TRIO. Arkady, Warszawa (Pozycja dostępna przez Internet) Kowalski W.C. Geologia Inżynierska. Wydawnictwa Geologiczne, Warszawa 1988r. Macioszczyk A. Podstawy hydrogeologii stosowanej, Wydawnictwo Naukowe PWN
Supplementary literature	no

	eResources addresses	
Example issues/ example questions/ tasks being completed	Development of a piezometer documentation sheet	
Work placement	Not applicable	

Document generated electronically. Does not require a seal or signature.