

Subject card

Subject name and code	Geology of mineral deposits, PG_00091080						
Field of study	Geology						
Date of commencement of studies	October 2024	Academic year of realisation of subject			2026/2027		
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	5	ECTS credits			3.0		
Learning profile	academic	Assessment form			exam		
Conducting unit	Laboratory of Marine Geology -> Department of Chemical Oceanography and Marine Geology -> Faculty of Oceanography and Geography -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Agnieszka Marciniowska				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	0.0	0.0	30
	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	30		10.0		35.0	75
Subject objectives	Knowledge of geological conditions of formation and occurrence of deposits. Knowledge of the geological structure of the most important and largest Polish and world deposits discussed according to the technological classification: energy, metallic, chemical and rock resources.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[GEOLL3_W01] knows and understands the basic natural phenomena and explains their course in relation to geological processes		Knows the implications and relationship of physical, chemical and biological processes to the mineral deposits formation.		[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion [SW3] text preparation/written work		
	[GEOLL3_W05] knows the structure and geological development of selected regions in Poland and in the world		Knows the location, age and conditions of formation of the largest mineral deposits in Poland and in the World.		[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion [SW3] text preparation/written work		
	[GEOLL3_W02] knows and understands the terminology appropriate in science and natural sciences		Knows and understands the terminology used in deposit geology - description of genetic processes, classification of deposits.		[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion [SW3] 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 the processes of deposit formation in relation to the Earth history. Knows the basic methods of their study.		[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion [SW3] text preparation/written work		
	[GEOLL3_W07] knows the anthropogenic transformation of the natural environment, including the effects of the exploitation of mineral resources		Knows the methods of exploitation of mineral deposits and the impact of the natural environment.		[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion [SW3] text preparation/written work		

Subject contents	1. Definitions and classifications of deposits. 2. Geological processes leading to the formation of deposits. 3. Genetic classification of deposits. 4. Energetic resources - characteristics of the most important deposits, with particular reference to Polish deposits. 5. Ores resources - characteristics of the most important deposits, with particular reference to Polish deposits. 6. Chemical resources - characteristics of the most important deposits, with particular reference to Polish deposits. 7. Rock resources - characteristics of the most important Polish deposits. 8. Methods of deposit exploitation and the impact of the environment.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	lecture activity	0.0%	10.0%
	written/oral exam	51.0%	90.0%
Recommended reading	Basic literature	Gabzdyl W., 1999. Geologia złóż, Wyd. Politechniki Śląskiej, Gliwice Gruszczak H., 1984. Nauka o złożach, Wyd. Geologiczne, Warszawa Guilbert M.J., Park Ch.F., 1986. The geology of ore deposits. Waveland Press Konstantynowicz E., 1994. Geologia złóż kopalni. Kopaliny energetyczne, Wyd. Uniwersytetu Śląskiego, Katowice Laznicka P., 2010. Giant Metallic Deposits. Future Sources of Industrial Metals, Springer Pirajno F., 2009. Hydrothermal processes and mineral systems. Springer Pirajno F., 2000. Ore Deposits and mantle plumes. Springer Pohl W. L., 2005. Economic geology, principles and practice. Wiley-Blackwell Robb L., 2011. Introduction to ore-forming processes, Blackwell Publ. Smirnow W.I., 1986. Geologia złóż kopalni użytecznych, Wyd. Geologiczne, Warszawa	
	Supplementary literature	Bogda A., Kabała C., Karczewska A., Szopka K., 2010. Zasoby naturalne i zrównoważony rozwój, Wyd. Uniw. Przyrodniczego, Wrocław Craig J.R., Vaughan D.J., Skinner B.J., 2003. Zasoby Ziemi, Wyd. Naukowe PWN, Warszawa Gabzdyl W., Gorol M., 2008. Geologia i bogactwa mineralne Górnego Śląska i obszarów przyległych, Wyd. Politechniki Śląskiej, Gliwice Osika R. (red.), 1987. Budowa geologiczna Polski, t. IV. Złoża surowców mineralnych, Wyd. Geologiczne, Warszawa Sokołowski J., 1990. Geologia regionalna i złożowa Polski. Wyd. Geologiczne, Warszawa	
	eResources addresses		
Example issues/ example questions/ tasks being completed	Genetic types of deposits Deposits of rock raw materials in Poland Polish ore deposits		
Work placement	Not applicable		

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