University of Gdańsk

Subject card

Subject name and code	Geology of mineral deposits - lecture, PG_00193039		
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 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	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 Marcinowska	
	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	1.0	44.0	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_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
[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

<table>
<tr><td>Subject contents</td><td>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.</td></tr>
<tr><td>Prerequisites and co-requisites</td><td></td></tr>
<tr><td>Assessment methods and criteria</td><td>
<table>
<tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr>
<tr><td>text development/written work</td><td>51.0%</td><td>10.0%</td></tr>
<tr><td>written/oral exam</td><td>51.0%</td><td>80.0%</td></tr>
<tr><td>lecture activity</td><td>51.0%</td><td>10.0%</td></tr>
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<tr><td>Recommended reading</td><td>
<table>
<tr><td>Basic literature</td><td>Gabzdyl W., 1999. Geologia złóż, Wyd. Politechniki Śląskiej, Gliwice
Gruszczyk 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 kopalin. 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 kopalin użytecznych, Wyd. Geologiczne, Warszawa</td></tr>
<tr><td>Supplementary literature</td><td>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, Warszwa
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</td></tr>
<tr><td>eResources addresses</td><td></td></tr>
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<tr><td>Example issues/ example questions/ tasks being completed</td><td>Genetic types of deposits
Deposits of rock raw materials in Poland
Polish ore deposits</td></tr>
<tr><td>Work placement</td><td>Not applicable</td></tr>
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