GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Mineral Resources, PG_00049200		
Field of study	Chemistry		
Date of commencement of studies	October 2020	Academic year of realisation of subject	2022/2023
Education level	first-cycle 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	6	ECTS credits	2.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Department of Chemistry and Technology of Functional Materials -> Faculty of Chemistry		
Name and surname of lecturer (lecturers)	Subject supervisor	prof. dr hab. Anna Lisowska-Oleksiak	
	Teachers	prof. dr hab. Anna Lisowska-Oleksiak prof. dr hab. inż. Jarosław Chojnacki	

Lesson types and methods of instruction

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	15.0	0.0	0.0	0.0	15.0	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	5.0	15.0	50

Subject objectives

The aim of the Subject " Mineral Resources" is to give basic information abut mineralogy, petrography and mineral processing.

Learning outcomes

Course outcome	Subject outcome	Method of verification
K6_W02	knows the basics and has structured knowledge in the field of chemistry and mineral resources, knows their economic importance and understands the environmental importance of the processing of mineral resources	[SW1] Assessment of factual knowledge [SW2] Assessment of knowledge contained in presentation
[K6_U05] can, on the basis of the collected experimental or source material, prepare an oral communication with a multimedia presentation	is able, on the basis of critically selected source material, to prepare and present a speech with a multimedia presentation on the subject of mineral resources, their processing, economic and geopolitical importance	[SU5] Assessment of ability to present the results of task [SU3] Assessment of ability to use knowledge gained from the subject [SU1] Assessment of task fulfilment

Subject contents

Not specified

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
Presentation on seminar	51.0%	50.0%
test (written) on lecture course	51.0%	50.0%

Recommended reading	Basic literature	Bolewski A., Manecki A., Mineralogia szczegółowa, Wyd. Polskiej Agencji Ekologicznej, Warszawa, 1993, Manecki, Andrzej Encyklopedia minerałów, 2004; Bolewski, Andrzej, Kubisz, Jan, Żabiński - Mineralogia ogólna; 1975; E. Liber-Madzirz, B. Teisseyre, Mineralogia I petrografia, Oficyna Wydawnicza Wrocław 2000; .Willer Joanna, Pacholewska Małgorzata, Agnieszka Fornalczyk, Mariola Saternus Wprowadzenie do hydrometalurgii i biometalurgii metali nieżelaznych Wydawnictwo Politechniki Śląskiej, Gliwice 2015. Internet: http://webmineral.com http://http://surowce-mineralne.pgi.gov.pl/index.htm
	Supplementary literature	Jan Drzymała, Podstawy mineralurgii, Oficyna Wydawnicza Politechniki Wroclawskiej, Wrocław 2009
	eResources addresses	Adresy na platformie eNauczanie: Surowce mineralne 2023 - Moodle ID: 29058 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=29058
Example issues/ example questions/ tasks being completed	1. Main and characterised geological processes responsible for rocks formation. 2. Describe Bowen's reaction series 3. Describe economic importance of sulfide minerals on choices example. 4. Give examples of diadochy. 5. What are the limitations in raw materials for the development of electric mobility (EV).	
Work placement	Not applicable	