

## Subject card

Subject name and code	, PG_00064501							
Field of study	Materials Engineering, Materials Engineering							
Date of commencement of studies	February 2024		Academic year of realisation of subject			2024/2025		
Education level	second-cycle studies		Subject group			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	1		Language of instruction			Polish		
Semester of study	2		ECTS credits			5.0		
Learning profile	general academic profile		Assessment form			assessment		
Conducting unit	Division of Nanomaterials Physics -> Institute of Nanotechnology and Materials Engineering -> Faculty of Applied Physics and Mathematics							
Name and surname	Subject supervisor		dr inż. Kamil Kolincio					
of lecturer (lecturers)	Teachers		dr inż. Kamil I	mil Kolincio				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM
	Number of study hours	15.0	0.0	15.0	30.0		0.0	60
	E-learning hours included: 0.0							
Learning activity and number of study hours	Learning activity	Participation i classes including		Participation i consultation h		Self-study		SUM
	Number of study 60 hours			0.0		0.0 60		
Subject objectives	The goal is to make student familiar with basics of mineralogy, being one of material engineering precursors							
Learning outcomes	Course outcome		Subject outcome			Method of verification		
	K7_K01		Student makes effort to independently gain the knowledge. Student seizes the consultation hours when the solution cannot be found on one's own, and is able to define the elements which cannot be understood without the support			[SK2] Assessment of progress of work		
	K7_U01		Student independently searches			[SU1] Assessment of task fulfilment		
	K7_W07		Student is aware of the newest trends and directions in materials engineering, which are associated wi mineralogy			[SW1] Assessment of factual knowledge		
Subject contents	Lecture:  - Basic concepts and definitions  - Macroscopic and microscopic methods of mineral identification  - Analysis of the structure and chemical composition of minerals  - Characterization of minerals of special interest in materials engineering  - Engineering of synthetic analogs of minerals  Laboratory: Methods of identification and description of morphological and physicochemical characteristics of minerals  Project: identification and study of physical properties of real samples prepared/sampled by students							
Prerequisites and co-requisites	The basics of crystallography knowledge, from the "Crystallography" and/or "Crystallography II" courses will be an advantage							

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Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade		
	Project: report	50.0%	40.0%		
	Laboratory: report	50.0%	20.0%		
	Lecture: written test	50.0%	40.0%		
Recommended reading	Basic literature	"Mineralogia ogólna", Andrzej Bolewski, Wydawnictwa geologiczne, 1975 or later edition      "Mineralogia szczegółowa", Andrzej Bolewski, Wydawnictwa geologiczne, 1982 or later edition			
	Supplementary literature  1. "Krystalografia" Zbigniew Bojarski, Marek Gigla, Kazim Marian Surowiec, PWN any edition  2. Elementy Mineralogii i Krystalografii, Tadeusz Penkala edition				
	eResources addresses	Adresy na platformie eNauczanie: Podstawy mineralogii - Moodle ID: 41812 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=41812			
Example issues/ example questions/ tasks being completed					
Work placement	Not applicable				

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