



## Subject card

Subject name and code	, PG_00058689						
Field of study	Materials Engineering, Materials Engineering, Materials Engineering						
Date of commencement of studies	February 2023	Academic year of realisation of subject			2022/2023		
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	1	ECTS credits			2.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Zakład ceramiki -> Instytut Nanotechnologii i Inżynierii Materiałowej -> Faculty of Applied Physics and Mathematics						
Name and surname of lecturer (lecturers)	Subject supervisor		prof. dr hab. inż. Maria Gazda				
	Teachers		dr inż. Krzysztof Formela dr hab. inż. Stefan Dzionk prof. dr hab. inż. Maria Gazda				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	0.0	30.0	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	5.0		15.0	50	
Subject objectives	Implementation of the project by a team of students						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[K7_K81] is able to cooperate in international team at her/his own university, during work placement and during study abroad	able to cooperate in a project team			[SK1] Assessment of group work skills		
	K7_W05	knows the basic methods, techniques, tools and materials needed to implement the project			[SW3] Assessment of knowledge contained in written work and projects		
	K7_W07	has knowledge of development trends and the most important new achievements in the subject of the project			[SW3] Assessment of knowledge contained in written work and projects		
	K7_U07	is able to plan and organize work individually and in a project team			[SU1] Assessment of task fulfilment		
	K7_U01	is able to obtain information necessary for the implementation of the project from literature, databases and other properly selected sources, also in English; is able to integrate the obtained information, interpret it, draw conclusions and formulate and justify opinions			[SU1] Assessment of task fulfilment		
Subject contents	Selection of topics, or continuation of a project started in semester 5. Selection of the research method and/or analysis method to the problem posed in the project; Self-knowledge of selected research methods and methods of analysis; Preparation of an action plan, division of roles in the team; Project implementation: conducting research/analyses using selected methods; Critical analysis of the obtained results, discussion; Preparing a report; Summary of works: presentation of results, discussion; Mutual review of the results of the teams' work, discussion.						
Prerequisites and co-requisites	no						

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	assesment of the project results	51.0%	100.0%
Recommended reading	Basic literature	depends on the topic	
	Supplementary literature	j.w.	
	eResources addresses		
Example issues/ example questions/ tasks being completed	-		
Work placement	Not applicable		