



Subject card

Subject name and code	Diploma/Final Project, PG_00061937						
Field of study	Materials Engineering						
Date of commencement of studies	October 2023		Academic year of realisation of subject		2026/2027		
Education level	first-cycle studies		Subject group		Optional subject group		
Mode of study	Full-time studies		Mode of delivery		at the university		
Year of study	4		Language of instruction		Polish		
Semester of study	7		ECTS credits		14.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Institute of Nanotechnology and Materials Engineering -> Faculty of Applied Physics and Mathematics -> Faculties of Gdańsk University of Technology						
Name and surname of lecturer (lecturers)	Subject supervisor		prof. dr hab. inż. Maria Gazda				
	Teachers						
Lesson types	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		10.0		310.0	350
Subject objectives	Preparing a diploma project						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[K6_U07] Can obtain information from literature and other properly selected sources, also in English or other foreign language used for international communication in materials engineering.	is able to obtain information from literature, databases, and other appropriately selected sources—including those in English or another foreign language recognized as a medium of international communication—pertaining to topics related to the execution of a diploma project in the discipline of materials engineering	[SU1] Assessment of task fulfilment
	[K6_W07] Has detailed knowledge of selected problems of materials science.	possesses detailed knowledge related to materials science issues relevant to the diploma project	[SW3] Assessment of knowledge contained in written work and projects
	[K6_U01] Can properly use selected analytical, simulation and experimental methods, as well as devices for measuring the fundamental properties of materials and technological processes.	is able to employ techniques appropriate for the completion of an engineering degree project, and is capable of using these methods as well as mathematical and physical models to describe and explain chemical phenomena and processes related to the subject matter of the degree project	[SU4] Assessment of ability to use methods and tools
	[K6_U08] Can prepare written works in Polish and a foreign language, acknowledged as the basic language for the field of science and scientific disciplines, specific to materials engineering, concerning detailed issues, using fundamental theoretical approaches, and diverse sources.	Is capable of writing a thesis in Polish or a foreign language on a topic within the field of materials engineering, meeting the requirements established for engineering theses.	[SU5] Assessment of ability to present the results of task
	[K6_K02] Can think and act creatively and entrepreneurially, is able to negotiate, work in a team, assuming different roles.	While working on a diploma project, one is able to think and act in a creative and entrepreneurial manner, and is capable of negotiating and collaborating with others.	[SK5] Assessment of ability to solve problems that arise in practice
	[K6_U11] Is able to notice non-technical aspects when forming and solving project tasks, including environmental, economic and legal aspects. Applies the rules of occupational health and safety.	When carrying out a diploma project, the student is able to identify non-technical aspects, including environmental, economic, and legal considerations. They apply the occupational health and safety rules required in the laboratory where the project is being conducted.	[SU1] Assessment of task fulfilment
Subject contents	Course content – project Familiarization with the subject matter of the diploma project. Defining the objective of the thesis and the research problem. Preparing an outline and a project implementation schedule. Conducting experimental or theoretical work. Processing, analyzing, and discussing the results. Writing the thesis.		
Prerequisites and co-requisites	no		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Evaluation of project implementation	51.0%	100.0%
Recommended reading	Basic literature	The literature list depends on the project topic	
	Supplementary literature	The literature list depends on the project topic	
	eResources addresses		
Example issues/ example questions/ tasks being completed	Fabrication and properties of textured barium titanate Synthesis, structure and electrochemical studies of multicomponent oxides. Investigation of the stability of high-entropy perovskites in the environment of carbon dioxide and water vapour		
Practical activities within the subject	Not applicable		

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