



Subject card

Subject name and code	, PG_00058866						
Field of study	Nanotechnology						
Date of commencement of studies	October 2025	Academic year of realisation of subject			2026/2027		
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	2	Language of instruction			English		
Semester of study	4	ECTS credits			1.0		
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. Jarosław Rybicki					
	Teachers	prof. dr hab. inż. Jarosław Rybicki					
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	0.0	0.0	15.0	15
	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	15	2.0	8.0	25		
Subject objectives	Preparation of the Student for undertaking and solving scientific and technical problems as well as for elaborating complete and reliable research reports.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
Subject contents	Course content – seminar Implementation of research tasks related to the selected topic of the diploma project in the team: student-project supervisor. Preparation of the MSc thesis manuscript in accordance with suitable standards and general guidelines.						
Prerequisites and co-requisites	Completed and passed all courses from semesters 1-3.						
Assessment methods and criteria	Subject passing criteria	Passing threshold			Percentage of the final grade		
	Realization of laboratory tasks related to the diploma project	100.0%			50.0%		
	Preparation and presentation of the MSc thesis	50.0%			50.0%		
Recommended reading	Basic literature	[1] Nicholas Walliman, Research Methods, The Basics, Taylor & Francis Group, London and New York, 2011 [2] Hugh G. Gauch Jr., Scientific Methods in Brief, Cambridge University Press, 2012					

	Supplementary literature	[1] Guidelines for Authors of diploma thesis and diploma projects for higher education studies at Gdańsk University of Technology written in polish or english. [2] Scientific literature and specialist reports related to the diploma project
	eResources addresses	
Example issues/ example questions/ tasks being completed	Cobalt (III) oxide particles and their redox reactions. Quantum calculations. Silicon-based precursors in parylene CVD functionalization. Quantum calculations. Iron (III) oxides in ionic liquids environment and the redox reactions. Quantum calculations.	
Practical activities within the subject	Not applicable	

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