

。 GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	, PG_00052088							
Field of study	Nanotechnology							
Date of commencement of studies	October 2022		Academic year of realisation of subject			2024/2025		
Education level	first-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	3		Language of instruction			Polish		
Semester of study	6		ECTS credits		4.0			
Learning profile	general academic profile		Assessmer	nt form as		asses	assessment	
Conducting unit	Institute of Nanotechnology and Materials Engineering -> Faculty of Applied Physics and Mathematics							
Name and surname	Subject supervisor		dr hab. inż. Agnieszka Witkowska					
of lecturer (lecturers)	Teachers		dr hab. inż. Agnieszka Witkowska					
		dr inż. Marek Augustyniak						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial Laboratory Project		t	Seminar	SUM	
	Number of study hours	0.0	0.0	0.0	45.0	0.0		45
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	45		5.0		50.0		100
Subject objectives	The aim of the course is: 1. preparing students to complete an engineering diploma project, including: engineering and non- engineering aspects, proper and critical selection of source materials, literature review, planning and implementing the experimental or numerical-simulation part of an engineering project; 2. presenting students the diploma examination procedure and preparing them for an oral presentation of the results of the diploma project.							

Learning outcomes	Course outcome	Subject outcome	Method of verification			
	К6_К05	The student has the ability to prepare and orally present the results of their work and participate in discussions, in Polish, on the issues analyzed in the discussed diploma projects. He is able to constructively evaluate his own results and the results of others.	[SK4] Assessment of communication skills, including language correctness			
	K6_U07	After analyzing a simple research/ technical problem (including the engineering project selected for implementation), the student is able to perform a preliminary economic analysis of planned experiments and activities aimed at solving the problem.	[SU3] Assessment of ability to use knowledge gained from the subject			
	K6_U11	The student has the ability to prepare the proper structure of a scientific work and write its introductory part, and is able to prepare a professional presentation template for an oral presentation (in Polish), presenting issues from the diploma project.	[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment			
	K6_U04	After getting acquainted with the research problem, the student has the ability to plan an experiment and select the appropriate experimental tools, analyse research results and conduct a critical discussion.	[SU2] Assessment of ability to analyse information			
Subject contents	 Part 1. Engineering project topic selection, work schedule development; Diploma procedure; Introduction to issues related to writing a diploma thesis general guidelines and principles for preparing scientific papers. Part 2. Literature databases and other sources: tools for searching databases and creating a literature list, preliminary preparation of a literature review; Effective and critical searching of Internet resources; Selected tools supporting the preparation of a diploma thesis; Artificial intelligence in text editing and information searching; Development of examination issues. Part 3. Diploma presentation: elements of the presentation, the way of presenting the content and scientific results; Preparation of a presentation template; Oral presentation training: presentation and discussion of the preliminary results of the diploma project. 					
Prerequisites and co-requisites						
Assessment methods and criteria	Subject passing criteria P1. Consultation with supervisors, project schedule preparation; P2. Literature review; implementation of assigned mini-tasks; P3. Seminar preparation and presentation	Passing threshold 50.0%	Percentage of the final grade			
Recommended reading	Basic literature	Hugh G. Gauch Jr., Scientific Methods in Brief, Cambridge University Press, 2012				
	Supplementary literature	PN-ISO 690, 2012 "Information and documentation - Guidelines of bibliographic footnotes and references to information resources"				
		Scientific literature and specialist reports related to the diploma project.				

	eResources addresses	Adresy na platformie eNauczanie: Projekt dyplomowy inżynierski I - NT 2025 - Moodle ID: 44060 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=44060			
Example issues/ example questions/ tasks being completed	Preparation of detailed schedule for implementation of engineering project.				
	Present your project/idea in the most attractive form for the "investor".				
	Find the original source of requested information and determine if and what is fake news				
Work placement	Not applicable				

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