

。 GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	, PG_00058872								
Field of study	Nanotechnology								
Date of commencement of studies	October 2022		Academic year of realisation of subject			2022/2023			
Education level	first-cycle studies		Subject group			Obligatory subject group in the field of study			
						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	Polish		
Semester of study	2		ECTS credits			2.0	2.0		
Learning profile	general academic profile		Assessmer	essment form			assessment		
Conducting unit	Institute of Nanotechnology and Materials Engineering -> Faculty of Applied Physics and Mathematics								
Name and surname of lecturer (lecturers)	Subject supervisor		prof. dr hab. inż. Bogusław Kusz						
	Teachers		prof. dr hab. inż. Bogusław Kusz						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	ect Semina		SUM	
	Number of study hours	15.0	15.0	0.0	0.0		0.0	30	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation in classes includ		Participation in consultation hours		Self-study		SUM	
	Number of study hours	30		2.0		18.0		50	
Subject objectives	Acquisition of the ability to describe the problem, plan an experiment leading to a solution to the problem, evaluate the results of the experiment.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	K6_U04		The student is able to plan and carry out experiments, critically analyze their results.			[SU2] Assessment of ability to analyse information			
	К6_К04		The student knows how to work in a team.			[SK1] Assessment of group work skills			
	K6_U10		On the example of nanotechnology, the student is able to critically assess the risks associated with new technologies			[SU2] Assessment of ability to analyse information			
	K6_W10		The student has knowledge in the field of planning and conducting a physical experiment.			[SW1] Assessment of factual knowledge			

Subject contents	1. Ability to plan a simple experience.						
	2. The ability to calculate the standard deviation of the average value of the results of many measurements.						
	3. The ability to calculate the uncertainty of a complex quantity.						
		ph of the function) on the basis of tabular data and to determine from the ocess described by the chart. Description with as much information as					
	 5. What is a scientific problem and a non-scientific problem (according to own knowledge and according to K. Popper). 6. Description of the test object (general scheme): input/output and control variables, noise. 7. Experimental plan - types of plans: total, selective, optimized, randomized, 						
Prerequisites and co-requisites	none						
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade				
	calculation exercises -written test	50.0%	48.0%				
	lecture - written test	50.0%	52.0%				
Recommended reading	Basic literature	Internet					
	Supplementary literature	rature none					
	eResources addresses	Podstawowe					
		https://enauczanie.pg.edu.pl/moodle/course/view.php?id=30263 - e-					
		course Introduction to Exp. Adresy na platformie eNauczanie:					
Example issues/ example questions/ tasks being completed	1. What is a randomized plan?2. Calculate the standard deviation of the composite quantity.3. Plan an experiment to prove the following thesis:4. Draw a graph based on tabular data. Describe the chart as fully as possible.						
Work placement	Not applicable						

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