

Subject card

	Nanatashnalagu and the human environment DC 00055405								
Subject name and code	Nanotechnology and the human environment, PG_00055425								
Field of study	Nanotechnology								
Date of commencement of studies	February 2025		Academic year of realisation of subject			2025/2026			
Education level	second-cycle studies		Subject group			Humanistic-social subject group			
Mode of study	Full-time studies		Mode of delivery			at the university			
Year of study	2		Language of instruction			Polish			
Semester of study	3		ECTS credits			2.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Solid State Physics -> Faculty of Applied Physics and Mathematics -> Wydziały Politechniki Gdańskiej							Politechniki	
Name and surname	Subject supervisor		dr inż. Marek Chmielewski						
of lecturer (lecturers)	Teachers								
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	0.0	0.0	0.0	15.0		15.0	30	
	E-learning hours inclu	ıded: 0.0							
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	30		2.0		18.0		50	
Subject objectives	The aim of the course is the answer on the question of ethics influence on the accuracy of the science investigation procedure and presentation in the public results of the research and measurement results.								
Learning outcomes	Course out	Subject outcome			Method of verification				
	on current development directions and discoveries in physics, chemistry, technology and applications of nanostructures.		and new scientific content especially with nanotechnology on the environment, they will be able to determine the scope of safe use of advanced technical solutions. He or she can assess the importance of maintaining balance in the field of technological			knowledge			
	[K7_W07] has extended knowledge concerning potential negative biological and ecological effects resulting from using nanostructures and relevant safety rules.					[SW1] Assessment of factual knowledge			
	[K7_K09] is aware of the importance and understands non-technical aspects and results of engineering work, including its influence on the environment, and the related responsibility for decisions made.					[SK2] Assessment of progress of work [SK5] Assessment of ability to solve problems that arise in practice			
Subject contents	The seminar will present issues contained in ethical codes applicable in science and discuss the impact of humans on the natural environment. Issues related to threats to the human environment will be presented and ways to avoid them will be discussed. The project involves preparing issues that can be used in the process of determining the level of knowledge about nanotechnology in society. Course participants will be tasked with creating at least three closed questions that can potentially be used in a survey testing knowledge about nanotechnology and its impact on the natural environment.								
								closed	
Data wygenerowania: 25.09.2025	5 14:45					Strona	1 z 2		

Prerequisites and co-requisites	not required					
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade			
	Grade	50.0%	100.0%			
Recommended reading	Basic literature	The Ethics of Nanotechnology, Andrew Chen				
	Supplementary literature	not required				
	eResources addresses					
Example issues/	Ethics in nanotechnology.					
example questions/ tasks being completed	The impact of research on the economy.					
	The impact of research on policy.					
Work placement	Not applicable					

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Data wygenerowania: 25.09.2025 14:45 Strona 2 z 2