

。 GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Nanotechnology and human environment, PG_00055428								
Field of study	Nanotechnology, Nanotechnology (joint Master's double-degree program)								
Date of commencement of studies	October 2023		Academic year of realisation of subject			2024/2025			
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			English			
Semester of study	4		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								
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Marek Chmielewski						
	Teachers dr inż. Marek Chmielewski								
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Project	roject Seminar		SUM	
of instruction	Number of study hours	0.0	0.0	0.0	15.0		15.0	30	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation in classes includ plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	f study 30		2.0		18.0		50	
Subject objectives	The aim of the course is a general presentation of the ethical issues in the field of scientific research, in addition, during the course, allowing students to express their opinions on the ethical and humanistic subjects. Presented are current and analyzed existing codes in the area in the various fields of research especially in nanotechnology research.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	K7_W07		The student learns the issue of ethics in scientific research and is able to effectively verify their validity and can apply them in practice. Student will able to enforce ethical standards in the research work.			[SW1] Assessment of factual knowledge			
	K7_W03		The student will know a variety of research techniques used in the field of measurement of the structure, the chemical composition, the atomic structure, student learns and classifies physical phenomena used the technic of measurement of the properties of the materials.			[SW1] Assessment of factual knowledge			
	К7_К09		Students will analyze the impact of the development of technology and new scientific content 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 progress.			[SK5] Assessment of ability to solve problems that arise in practice			
Subject contents	The content of the course is the presentation of the issues contained in the ethical codes applicable to science, the issues of human impact on the environment will be discussed. Issues of dangers in the human environment resulting from the use of nanotechnology will be presented, opportunities to avoid them will be discussed.								
Prerequisites and co-requisites	not required								

Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade		
and criteria	preparation of the panel discussion	100.0%	100.0%		
Recommended reading	Basic literature	Kodeks Etyki Pracownika Naukowego PAN Internet sources			
	Supplementary literature	not required			
	eResources addresses	Adresy na platformie eNauczanie: Nanotechnology and human environment - Moodle ID: 44896 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=44896			
Example issues/ example questions/ tasks being completed	The human impact on the environment. Technology in the hands of man				
Work placement	Not applicable				

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