

Subject card

Subject name and cade	Nanotochnology and the human environment PC 00055425								
Subject name and code Field of study	Nanotechnology and the human environment, PG_00055425 Nanotechnology								
Date of commencement of studies	February 2023		Academic year of realisation of subject			2023/2024			
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				and Mat	1athematics			
Name and surname	Subject supervisor		dr inż. Marek Chmielewski						
of lecturer (lecturers)	Teachers			of. dr hab. inż. Jarosław Rybicki inż. Marek Chmielewski					
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		15.0	30	
	E-learning hours inclu			_		1		1	
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			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 outcome		Subject outcome		Method of verification				
	K7_K09		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.			[SK5] Assessment of ability to solve problems that arise in practice			
	K7_W03		The student will know: the physical basis of the description of the magnetic properties with a particular emphasis on the properties of hysteresis, definitions and description of the mechanical waves propagating in solid materials, will know influence of the permanent or changed in time magnetic field on the conductive materials.			[SW1] Assessment of factual knowledge			
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 [SW2] Assessment of knowledge contained in presentation				
Subject contents	The content of the course is the analysis and verification of existing codes of the ethics in the subjects of the research and development in science. Understanding and analyzing the ethic code in the field of nanotechnology. The analysis is also the history and evolution of content included within the applicable codex. In addition, the lecture will be analyzed as current controversial statements and publications in the field of science and especially nanotechnology.								
Prerequisites and co-requisites	not required								

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Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	Grade	50.0%	100.0%			
Recommended reading	Basic literature	The Ethics of Nanotechnology, Andrew Chen				
	Supplementary literature	not required				
	eResources addresses	Adresy na platformie eNauczanie:				
		Nanotechnologia a srodowisko człowieka - Moodle ID: 36929 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=36929				
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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