



## Subject card

Subject name and code	Ethics in scientific research, PG_00053093						
Field of study	Nanotechnology						
Date of commencement of studies	October 2020		Academic year of realisation of subject		2020/2021		
Education level	first-cycle studies		Subject group		Humanistic-social subject group		
Mode of study	Full-time studies		Mode of delivery		at the university		
Year of study	1		Language of instruction		Polish polish		
Semester of study	1		ECTS credits		2.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Instytut Nanotechnologii i Inżynierii Materiałowej -> 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 of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	0.0	0.0	30
	E-learning hours included: 0.0						
	Address on the e-learning platform: <a href="https://enauczanie.pg.edu.pl/moodle/course/view.php?id=9613">https://enauczanie.pg.edu.pl/moodle/course/view.php?id=9613</a> Adresy na platformie eNauczanie:						
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	30		0.0		0.0	30
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.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_U71] is able to apply knowledge from humanistic, social, economic or legal sciences in order to solve problems in a social environment		The student learns about regulations and customary for the ethics codes applicable in the field of scientific research. Learns about the relationships and dependencies between political and economic issues and their impact in the science research.		[SU5] Assessment of ability to present the results of task		
	[K6_W71] has general knowledge in humanistic, social, economic or legal sciences		The student gets acquainted with the need to respect the ethical standards contained in codes relating to the scientific work. Student will be able to understand the social consequences of irresponsible use of research and the scientific work.		[SW3] Assessment of knowledge contained in written work and projects		
	[K6_K71] is conscious of the need to apply knowledge from humanistic, social, economic or legal sciences in order to function in a social environment		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 be able to enforce ethical standards in the research work.		[SK1] Assessment of group work skills		
Subject contents	The content of the course is the presentation of the issues contained in the codes of ethics applicable to learn, will discuss the issues of human impact on the environment. Presented will be the consideration of risks to the environment and human will discuss the possibility to avoid them.						
Prerequisites and co-requisites	none						
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	participation in a discussion panel		100.0%		100.0%		

Recommended reading	Basic literature	internet sources
	Supplementary literature	none
	eResources addresses	
Example issues/ example questions/ tasks being completed	Research worker code of ethics - basic message	
Work placement	Not applicable	