



Subject card

Subject name and code	, PG_00061759						
Field of study	Materials Engineering, Materials Engineering, Materials Engineering						
Date of commencement of studies	February 2023		Academic year of realisation of subject		2023/2024		
Education level	second-cycle studies		Subject group		Optional 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		
Semester of study	2		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 of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	0.0	0.0	15.0	30
	E-learning hours included: 0.0						
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		
	[K7_W71] has general knowledge in humanistic, social, economic or legal sciences, including their fundamentals and applications		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.		[SW1] Assessment of factual knowledge		
	[K7_K71] is able to explain 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.		[SK2] Assessment of progress of work		
	[K7_U71] is able to apply knowledge from humanistic, social, economic or legal sciences in order to solve problems		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 [SU2] Assessment of ability to analyse information		
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	not required						
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	pass a subject		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: Etyka w naukach technicznych - Moodle ID: 33738 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=33738
Example issues/ example questions/ tasks being completed	The human impact on the environment. Technology in the hands of man	
Work placement	Not applicable	