



## Subject card

Subject name and code	, PG_00061759						
Field of study	Materials Engineering, Materials Engineering						
Date of commencement of studies	February 2024	Academic year of realisation of subject			2024/2025		
Education level	second-cycle studies	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_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.			[SU2] Assessment of ability to analyse information [SU5] Assessment of ability to present the results of task		
	[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_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		
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:
Example issues/ example questions/ tasks being completed	The human impact on the environment. Technology in the hands of man	
Work placement	Not applicable	