GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Nanotechnology and human environment, PG_00055428		
Field of study	Nanotechnology		
Date of commencement of studies	October 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	1	Language of instruction	English
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 -> Wydziały Politechniki Gdańskiej		
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Marek Chmielewski	
	Teachers	prof. dr hab. inż. Jarosław Rybicki dr inż. Marek Chmielewski	

Lesson types and methods of instruction

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	0.0	0.0	0.0	15.0	15.0	30

E-learning hours included: 0.0

Address on the e-learning platform: https://enauczanie.pg.edu.pl/moodle/course/view.php?id=22291

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	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.

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_K09	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
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

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

<table>
<tr><td>Assessment methods and criteria</td><td colspan="2"><table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>preparation of the panel discussion</td><td>100.0%</td><td>100.0%</td></tr></table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td>Kodeks Etyki Pracownika Naukowego PAN

Internet sources</td></tr>
<tr><td>Supplementary literature</td><td>not required</td></tr>
<tr><td>eResources addresses</td><td>Adresy na platformie eNauczanie:
Nanotechnologia a srodowisko człowieka - Moodle ID: 36929
https://enauczanie.pg.edu.pl/moodle/course/view.php?id=36929</td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="2">The human impact on the environment.

Technology in the hands of man</td></tr>
<tr><td>Work placement</td><td colspan="2">Not applicable</td></tr>
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