GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Bioethics, PG_00039047		
Field of study	Biotechnology		
Date of commencement of studies	October 2023	Academic year of realisation of subject	2024/2025
Education level	second-cycle studies	Subject group	Obligatory subject group in the field of study 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	4	ECTS credits	2.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Faculty of Chemistry		
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Hubert Cieśliński	
	Teachers	dr hab. inż. Hubert Cieśliński	

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

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 student obtains knowledge that allows him to participate in: a) discussion on the ethical aspects of in vitro fertilization, b) discussion on the ethical aspects of organ transplantation, c) discussion on the ethical aspects of euthanasia, d) discussion on the construction and consumption of genetically modified organisms (animals and plants) , e) discussions on the ethical aspects of reproductive cloning of animals, plants and humans, f) discussions on the ethical aspects of research into obtaining stem cells and their use in medicine.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K7_U07] is able to consider bioethical issues and regulations in research planning and design of biotechnological products and processes	the student has knowledge of what bioethical problems must be taken into account when designing biotechnological processes and planning biological and biomedical research	[SU4] Assessment of ability to use methods and tools
[K7_K01] has a sense of the importance of attitudes such as responsibility, goal-directedness and conscientiousness in one's work	the student has knowledge of how ethics (regardless of its type) shapes legal systems (jurisdictions) which are the source of principles and laws that should be followed when conscientiously performing work	[SK5] Assessment of ability to solve problems that arise in practice
[K7_K03] is conscious and able to explain the importance of the development of science and technology for the economy	the student has knowledge about the impact of the development of science and technical progress as the cause of bioethical problems requiring discussion to solve them by establishing legal provisions	[SK5] Assessment of ability to solve problems that arise in practice
[K7_W09] knows the concepts and principles of intellectual property protection and patent protection, bioethical problems and major legal regulations in the field of bioethics, the principles of experimental design and analysis of experimental results	the student is able to present the range of bioethical problems and the most important legal regulations in the field of bioethics	[SW1] Assessment of factual knowledge

<table>
<tr><td>Subject contents</td><td>Lecture - topics

Bioethics beginnings. Bioethics as ethical knowledge in medicine. Bioethics as ethical knowledge in biology and biotechnology. Conception and death: bioethics towards the limit states of human life. Debate on the IVF conception. The Embryo: Two Views - Quality of Life or Sanctity of Life? The embryo as a building material in "therapeutic" cloning. Eugenics: A Controversial Idea of the Improvement of the Human Race. The dispute over the moral and legal status of man in the prenatal period. Prenatal testing in pregnancy, benefits versus risks. Transplantology: Yesterday, Today, Tomorrow - Legal and Moral Aspects of Human Organ Harvesting for Transplantation. Stem cells in medicine, in vitro culture of tissues and organs. History of euthanasia. Arguments of supporters and opponents of euthanasia: dilemmas surrounding patient consent. Genetically Modified Organisms (GMOs) yesterday, today, tomorrow. GMOs as Producers of Consumer Goods: Should We Be Afraid of Them?</td></tr>
<tr><td>Prerequisites and co-requisites</td><td></td></tr>
<tr><td>Assessment methods and criteria</td><td><table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td></td><td>80.0%</td><td>100.0%</td></tr></table></td></tr>
<tr><td>Recommended reading</td><td><table><tr><td>Basic literature</td><td>Ramón Lucas Lucas "Bioetyka dla każdego" Wydawnictwo: Edycja Świętego Pawła Wydanie: Częstochowa 2005

Michele Aramini "Bioetyka dla wszystkich" Wydawnictwo: Espe Wydanie: Kraków 2011

Ślipko Tadeusz "Bioetyka. Najważniejsze problemy" Wydawnictwo Petrus, Kraków, 2012</td></tr><tr><td>Supplementary literature</td><td>Andrzej Muszala "Encyklopedia bioetyki" Wydawnictwo: Polwen Wydanie: Radom 2009</td></tr><tr><td>eResources addresses</td><td>Adresy na platformie eNauczanie:
Bioetyka 2024/2025 - Moodle ID: 43359
https://enauczanie.pg.edu.pl/moodle/course/view.php?id=43359</td></tr></table></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td>1. Please define the term Bioethics

2. Please explain what processes led to the creation of Bioethics

3. Please define the concept of eco-ethics and present its relation to bioethics.

4. Please briefly present the most important philosophical thoughts shaping the contemporary different approach to the essence of man in the bioethical discussion.</td></tr>
<tr><td>Work placement</td><td>Not applicable</td></tr>
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