GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

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|---|---|---|---|
| Subject name and code | Bioethics, PG_00070774 | | |
| Field of study | Biotechnology | | |
| Date of commencement of studies | February 2025 | Academic year of realisation of subject | 2025/2026 |
| Education level | second-cycle studies | Subject group | |
| Mode of study | Full-time studies | Mode of delivery | blended-learning |
| Year of study | 2 | Language of instruction | Polish |
| Semester of study | 3 | ECTS credits | 3.0 |
| Learning profile | general academic profile | Assessment form | assessment |
| Conducting unit | Department of Biotechnology and Microbiology -> Faculty of Chemistry -> Faculties of Gdańsk University of Technology | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | dr hab. inż. Hubert Cieśliński | |
| | Teachers | dr hab. inż. Hubert Cieśliński | |

**Lesson types**

| Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
|---|---|---|---|---|---|---|
| Number of study hours | 40.0 | 0.0 | 0.0 | 0.0 | 0.0 | 40 |

E-learning hours included: 34.0

eNauczanie source address: https://enauczanie.pg.edu.pl/2025/course/view.php?id=4604

Moodle ID: 4604 Bioetyka (C:IPO02)
https://enauczanie.pg.edu.pl/2025/course/view.php?id=4604

**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 | 40 | 5.0 | 30.0 | 75 |

**Subject objectives**

Students learn about the history of bioethics. Students learn about the various ethical concepts used in discussions about the definition of the human essence and the criteria used to assess human value within various ethical systems (materialistic and idealistic concepts, utilitarianism, eugenics).

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_K02] is aware of the potential risks and opportunities associated with the development of science and technology for the natural environment and society | The student is aware of the potential legal consequences arising from differing ethical assessments of various moral stances when working on the development of technologies that impact the natural environment and society | [SK5] Assessment of ability to solve problems that arise in practice |
| [K7_W07] has the skills to design experiments with respect to the protection of intellectual property and the principles of bioethics and applicable legislation | The student has knowledge of bioethics needed when designing experiments or applying medical procedures whose effects may raise moral objections or involve violations of the applicable legal order. | [SW1] Assessment of factual knowledge |
| [K7_U71] is able to apply knowledge from humanistic, social, economic or legal sciences in order to solve problems | The student can define the differences in assessing the moral correctness of the scientific discoveries discussed in the field of biology and applied medical procedures.<br>The student should be able to present the origins of Bioethics. | [SU2] Assessment of ability to analyse information<br>[SU3] Assessment of ability to use knowledge gained from the subject |

## Subject contents

Course content – lecture
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?

## Prerequisites and co-requisites

## Assessment methods and criteria

| Subject passing criteria | Passing threshold | Percentage of the final grade |
|---|---|---|
| | 80.0% | 100.0% |

## Recommended reading

| | |
|---|---|
| Basic literature | Ramón Lucas Lucas "Bioetyka dla każdego" Wydawnictwo: Edycja Świętego Pawła Wydanie: Częstochowa 2005<br><br>Michele Aramini "Bioetyka dla wszystkich" Wydawnictwo: Espe Wydanie: Kraków 2011<br><br>Ślipko Tadeusz "Bioetyka. Najważniejsze problemy" Wydawnictwo Petrus, Kraków, 2012 |
| Supplementary literature | Andrzej Muszala "Encyklopedia bioetyki" Wydawnictwo: Polwen Wydanie: Radom 2009 |
| eResources addresses | |

## Example issues/ example questions/ tasks being completed

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.

## Practical activites within the subject

Not applicable

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