



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

Bioethics

### Course

Field of study

Biomedical engineering

Area of study (specialization)

Level of study

First-cycle studies

Form of study

full-time

Year/Semester

4/7

Profile of study

general academic

Course offered in

polish

Requirements

compulsory

### Number of hours

Lecture

15

Laboratory classes

0

Other (e.g. online)

0

Tutorials

0

Projects/seminars

0

### Number of credit points

3

### Lecturers

Responsible for the course/lecturer:

dr hab. inż. Hubert JOPEK

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Wydział Inżynierii Mechanicznej

ul. Jana Pawła II 24, 60-965 Poznań

Responsible for the course/lecturer:

### Prerequisites

-

### Course objective

The aim of the course is to familiarize students of Biomedical Engineering with the basic problems of bioethics. The subject of this interdisciplinary lecture includes, among others, the issues of conducting biological research and experiments, in particular medical ones: both with the participation of humans and animals, as well as human impact and responsibility for changes in the natural environment. Problems related to borderline problems of origination and the end of life will be discussed. Theoretical considerations regarding bioethics as well as specific legal regulations in this area will be presented.

### Course-related learning outcomes

Knowledge

1. The student should present the division of bioethics and its main issues



2. The student should know the basic ethical aspects of biomedical engineering
3. the student knows the ethical standards related to the conduct of experiments with humans and animals, has knowledge of environmental ethics

#### Skills

1. The student is able to obtain information on bioethics from commonly available literature resources
2. The student is able to recognize ethical problems related to biomedical engineering

#### Social competences

1. The student is aware of the importance of non-technical aspects of engineering activities
2. The student is able to correctly identify and resolve the dilemmas related to the profession

#### Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Completion of the lecture based on the points obtained during the test and during the activity in the classroom

Passing requires more than 50% of points:> 50% - 3.0,> 60% - 3+,> 70% - 4,> 80% - 4+,> 90% of points - 5.0

#### Programme content

1. Introduction to basic issues related to ethics and bioethics, presentation of the historical development of the field, introduction of basic concepts and concepts.
2. Moral issues concerning the beginning of life
3. Moral issues related to the performance of professions related to medical care
4. Ethical problems of conducting experiments on humans and animals
5. Issues related to genetic engineering and other types of interference in the natural development of living organisms
5. End-of-life issues: euthanasia, death penalty, suicide
6. Human attitude towards the surrounding world
7. Legal aspects of bioethical problems.

#### Teaching methods

Traditional lecture or webinar with the use of multimedia presentations

#### Bibliography



Basic

K. Szewczyk, Bioetyka, tom 1 - Medycyna na granicach życia, PWN, Warszawa, 2009

K. Szewczyk, Bioetyka, tom 2 - Pacjent w systemie opieki zdrowotnej, PWN, Warszawa, 2009

W. Galewicz, Antologia bioetyki, Tomy 1 -6, Universitas

P. Singer, Etyka praktyczna, Książka i Wiedza, Warszawa 2007

Additional

T. L. Beauchamp, J. F. Childress, Zasady etyki medycznej, Książka i Wiedza, Warszawa 1996.

**Breakdown of average student's workload**

	Hours	ECTS
Total workload	75	3,0
Classes requiring direct contact with the teacher	15	1,0
Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests/exam, project preparation) <sup>1</sup>	60	2,0

<sup>1</sup> delete or add other activities as appropriate