



Subject card

Subject name and code	Bioethics, PG_00039047						
Field of study	Biotechnology						
Date of commencement of studies	February 2023		Academic year of realisation of subject		2023/2024		
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 none		
Semester of study	3		ECTS credits		2.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department of Microbiology -> 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_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		
	[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		[SU3] Assessment of ability to use knowledge gained from the subject		
	[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 that the use of some achievements of science and technology is associated with bioethical choices		[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 of how the development of science and technology has become the source of many bioethical challenges		[SK5] Assessment of ability to solve problems that arise in practice		

Subject contents	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 Michele Aramini "Bioetyka dla wszystkich" Wydawnictwo: Espe Wydanie: Kraków 2011 Ślipko Tadeusz "Bioetyka. Najważniejsze problemy" Wydawnictwo Petrus, Kraków, 2012	
	Supplementary literature	Andrzej Muszala "Encyklopedia bioetyki" Wydawnictwo: Polwen Wydanie: Radom 2009	
	eResources addresses	Adresy na platformie eNauczanie: Bioetyka 2023/2024 - Moodle ID: 37843 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=37843	
	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.	
Work placement	Not applicable		