

**Subject card**

<b>Subject name and code</b>	Ethics in biotechnology, PG_00197326						
<b>Field of study</b>	Biotechnology						
<b>Date of commencement of studies</b>	October 2026	<b>Academic year of realisation of subject</b>			2027/2028		
<b>Education level</b>	Master's studies	<b>Subject group</b>			Obligatory subject group in the field of study Humanistic-social subject group		
<b>Mode of study</b>	full-time studies	<b>Mode of delivery</b>			at the university		
<b>Year of study</b>	2	<b>Language of instruction</b>			Polish		
<b>Semester of study</b>	3	<b>ECTS credits</b>			1.0		
<b>Learning profile</b>	academic	<b>Assessment form</b>			exam		
<b>Conducting unit</b>							
<b>Name and surname of lecturer (lecturers)</b>	<b>Subject supervisor</b>		dr Tomasz Kąkol				
	<b>Teachers</b>						
<b>Lesson types</b>	<b>Lesson type</b>	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	<b>Number of study hours</b>	15.0	0.0	0.0	0.0	0.0	15
	E-learning hours included: 0.0						
<b>Learning activity and number of study hours</b>	<b>Learning activity</b>	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	<b>Number of study hours</b>	15		2.0		8.0	25
<b>Subject objectives</b>	Answering the question of what ethics is; discussion of ethical theories; characteristics of bioethics as an ethical discipline, presentation and discussion of bioethical problems.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[BIOTECHMU2_U06] The graduate is able to prepare, in a targeted manner in Polish and / or English, a written study, a scientific publication in the field of biotechnology using scientific language, including specialist terminology and conceptual apparatus.	The student prepares, in accordance with the instructor's instructions, a short written study of the materials received in the field of ethics in biotechnology, using terminology and conceptual apparatus appropriate for both social sciences and humanities (ethics) and biotechnology.	[SU4] test/exam - oral or written
	[BIOTECHMU2_K04] The graduate understands the ethical dilemmas and risks associated with conducting scientific research and introducing highly advanced technologies using biotechnology; appreciates the importance of intellectual property; and acts ethically, reflecting on one's own worldview, attitudes and professional responsibility.	The student identifies and explains contextually the threats and dilemmas, including ethical ones, related to conducting scientific research and introducing advanced technologies using biotechnology.	[SK1] oral statement/conversation/discussion
	[BIOTECHMU2_W07] The graduate possesses knowledge in the social sciences and humanities that is helpful in entrepreneurship and effective functioning in society, and understands the principles of responsibility in conducting scientific research, is able to interpret scientific and organizational decisions in the light of ethical, social and economic values.	The student possesses knowledge of ethics in biotechnology, essential for biotechnological work and for functioning effectively in society. Understands and applies the principles of responsibility in conducting scientific research in the field of biotechnology.	[SW4] test/exam - oral or written
Subject contents	What is ethics? A historical and problematic approach; four types of ethical theories: virtue theory, consequentialist theory (exemplified by utilitarianismthe utilitarianism of acts versus rules), deontological theory (exemplified by Kant's theory), and value ethics (Wertethik). Objections. Emotivism and criticism. Typical ethical arguments, especially so-called slippery slope argumentsanalysis. Bioethics and several of its issues, or detailed ethics in practice, the necessity of practicing it alongside ontology: the status of the human zygote, embryo, and fetus; euthanasia; dementia and other neurological conditions. Free discussion, including on topics proposed by students.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	The system presented during the first class	51.0%	100.0%
Recommended reading	Basic literature	<ul style="list-style-type: none"> <li>R. Brandt, Etyka. Zagadnienia etyki normatywnej i metaetyki (bez rozdz. XVI-XX), tł. B. Stanosz, Warszawa: PWN</li> <li>B. Smith, B. Brogaard, Embryoontology, <a href="https://ontology.buffalo.edu/smith/articles/Embryoontology(short).pdf">https://ontology.buffalo.edu/smith/articles/Embryoontology(short).pdf</a></li> <li>K. Wieczorek, Mechanizmy staczenia się po równi pochyłej, "Filozofia Nauki", 19(2011), nr 2(74), <a href="https://www.fn.uw.edu.pl/index.php/fn/article/view/639/799">https://www.fn.uw.edu.pl/index.php/fn/article/view/639/799</a></li> </ul>	
	Supplementary literature	<ul style="list-style-type: none"> <li>A. McIntyre, A Brief History of Ethics, translated by A. Chmielewski</li> <li>Tomasz Kąkol, "The Death of the Human Zygote and Its Older Colleagues. On Selected Prejudice in Contemporary Prenatal Bioethics," in: Leszek Kopciuch (ed.), Philosophy and Practice, Lublin: UMCS 2015</li> <li>Materials provided by the instructor</li> </ul>	
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

Document generated electronically. Does not require a seal or signature.