University of Gdańsk

Subject card

Subject name and code	AI in Academic Education, PG_00188315						
Field of study	Medical Physics						
Date of commencement of studies	October 2027		Academic year of realisation of subject	2027/2028			
Education level	Master's studies		Subject group	Obligatory subject group in the field of study			
Mode of study	full-time studies		Mode of delivery	e-learning			
Year of study	1		Language of instruction	Polish			
Semester of study	1		ECTS credits	0.0			
Learning profile	academic		Assessment form	credit			
Conducting unit							
Name and surname of lecturer (lecturers)	Subject supervisor		mgr Anna Smykowska				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	15.0	0.0	0.0	0.0	15
	E-learning hours included: 15.0						
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	15		0.0		5.0	20
Subject objectives	The aim of the course is to provide students with a conscious, critical and practical understanding of the role of artificial intelligence in the modern academic world and to prepare them for the responsible use of AI tools in the process of education, scientific development and future professional career.						

Learning outcomes

Course outcome	Subject outcome	Method of verification
	W1 - knows and understands the basic terms, concepts, and principles of artificial intelligence models and tools, with particular emphasis on their use in the learning process. W2 - knows and understands the ethical and legal foundations regarding the development and use of artificial intelligence. U1 - is able to critically analyze the possibilities and limitations of using AI tools in the learning process and select appropriate technological solutions in the field of artificial intelligence that support the learning process. U2 - is able to critically analyze the possibilities, limitations, and risks associated with the use of artificial intelligence in the process of preparing their own academic texts. K1 - is willing to comply with ethical principles and applicable legal regulations regarding the use of artificial intelligence. K2 - is prepared to use artificial intelligence critically and consciously, while respecting data protection and copyright laws. K3 - is prepared to develop their competencies in the field of artificial intelligence in the context of advances in AI technology and ongoing changes in the labor market.	[SK3] text preparation/written work [SK4] test/exam - oral or written [SK5] implementation of a problem task [SK6] demonstration of practical skills [SK8] observation of student's independent or team work

Subject contents

Introduction. The importance of artificial intelligence in academic education.
1. Artificial intelligence. Basic terms and concepts. Principles of artificial intelligence models.
2. History of learning programs.
3. Artificial intelligence vs. human intelligence. Understanding, awareness, subjectivity. The Turing Test.
4. Legal framework for artificial intelligence. AI Act. White Paper. UNESCO recommendations. Institutional codes. GDPR and the right to privacy.
5. Ethical foundations for the development and use of artificial intelligence. Ethical standards for the use of AI tools in force at the University of Gdańsk.
6. Conscious and responsible use of artificial intelligence tools at the university. AI-based solutions and tools that support self-development and learning.
7. Prompting techniques as a form of support in the academic education process.
8. Opportunities and risks associated with using artificial intelligence tools in the process of writing theses, other academic texts, and projects. AI-generated texts in the context of copyright law.
9. Truth and transparency in light of disinformation and manipulation by AI systems. The concept of trustworthy artificial intelligence. Hallucinations of AI models.
10. Artistic values. Creativity and art in the age of artificial intelligence.
11. Social values. Building connections and community in the age of artificial intelligence.
12. Artificial General Intelligence. Superintelligence. Paths of development, opportunities and enhanced cognitive capabilities. Ethical implications of developing Artificial General Intelligence.
13. Humanity as a paramount value in the age of artificial intelligence. A human-centered approach and the protection of fundamental human rights in the context of the development of uncontrolled artificial intelligence.
14. Education in the age of artificial intelligence. Developing competencies in the field of artificial intelligence. Developing human competencies.
15. Consciously shaping ones professional career in the age

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
practical tasks	51.0%	50.0%
test	51.0%	50.0%

Recommended reading	Basic literature	AI Act. Regulation (EU) 2024/1689 of the European Parliament and of the Council of 13 June 2024; *https://eur-lex.europa.eu/legal-content/PL/TXT/?uri=CELEX:32024R1689.* Crawford Kate. 2024. *Atlas sztucznej inteligencji. Władza, pieniądze i środowisko naturalne*, tłum. Tadeusz Chawzik, Kraków, Wydawnictwo Uniwersytetu Jagiellońskiego. Kurzweil Ray. 2024. *Osobliwość coraz bliżej*. Warszawa. Grupa Wydawnicza Relacja sp. z o.o. Perzycka-Borowska, Elżbieta, Lib, Waldemar, Marek, Lidia, Cywiński, Aleksander (red.). 2025. *Relacje człowieka z generatywną sztuczną inteligencją. Autoetnografie nauczycieli i studentów*, Uniwersytet Szczeciński, Szczecin. Schaichborg Jana, Conitzer Vincent, Sinnot-Armstrong Walter. 2024. *Moralna AI. Czy bać się sztucznej inteligencji*, tłum. Bogumił Bieniok i Ewa Łokas, Warszawa, Prószyński i S-ka.

	Supplementary literature	Asimov, Isaac. 2024. *Ja, robot*. tłum. Zbigniew. Królicki, Poznań, Dom Wydawniczy REBIS. Bostrom, Nick. 2023. *Superinteligencja. Scenariusze, strategie,zagrożenia*, przekład Doota Konowrocka-Sawa. Helion S.A., Gliwice. Chojnowski, Maciej. 2022. *Etyka sztucznej inteligencji. Wprowad*zenie, Fundacja Humanites Sztuka Wychowania, Warszawa; https:// ethicstech.eu/wp-content/uploads/2022/12/ESIW-v2.0_FINAL.pdf Dragan, Andrzej. 2025. *Ouo vAIdis*, Wydawnictwo Otwarte, Kraków. Du Sautoy Marcus. 2020. *Kod kreatywności. Sztuka i innowacje w epoce sztucznej inteligencji*, przekład Tadeusz Chawziuk, Copernicus Center Press, Kraków. Juszczk, Michał, *Sztuczna inteligencja zasady z Asilomar*; https:// instytutsprawobywatelskich.pl/sztuczna-inteligencja-zasady-z-asilomar/ Komisja Europejska. 2020. *Biała Księga w sprawie sztucznej inteligencji. Europejskie podejście do doskonałości i zaufania*, Bruksela, 19 lutego 2020 r.; https://eur-lex.europa.eu/legal-content/PL/TXT/? uri=celex%3A52020DC0065 Kisielewicz Andrzej. 2017. *Sztuczna inteligencja i logika*, Warszawa, Wydawnictwo WNT. Lubasz, Dominik. 2025. *Rodo dla AI. Zgodność z zasadami godnej zaufania sztucznej inteligencji w modelu data protection by design*, Wolter Kluwer, Warszawa. Mollick Ethan. 2024. *Co-intelligence. Living and Working with AI*, London, WH Allen. Rybiński, Krzysztof, Królewski, Jarosław. 2024. *Algokracja. Jak i dlaczego sztuczna inteligencja zmienia wszystko*, PWN, Warszawa. Searle, John. 1995. *Umysły, mózgi i programy*, przełożył Bohdan Chwedeńczuk. W: *Filozofia umysłu*, wybrał i wstępem opatrzył Bohdan Chwedeńczuk, tłumaczyli Tadeusz Baszniak, Bohdan Chwedeńczuk, Cezary Cieśliński, Paweł Dziliński, Anna Jedynak, Michał Szczubiałka, Warszawa: Fundacja Aletheia, Wydawnictwo Spacja, 301-324. Świerczyński, Marek, Więckowski, Zbigniew. 2021. *Sztuka inteligencja w prawie międzynarodowym. Rekomendacje wybranych rozwiązań*, Difin, Warszawa. Turing, Alan. 1950. Computing Machinery and Intelligence, *Mind*, New Series, 59, 236, 433-460. UNESCO. 2021. *Zalecenie UNESCO w sprawie etyki sztucznej inteligencji, przyjęte 23 listopada 2021 r.*; https://www.unesco.pl/ fileadmin/import24/Sztuczna_inteligencja-4.pdf. Yudkowsky, Eliezer & Soares, Nate. 2025. *If Anyone Builds It, Everyone Dies: The Case Against Superintelligent AI*. London, Vintage Publishing.
	eResources addresses	

Example issues/ example questions/ tasks being completed	How can we develop a critical approach to AI-generated texts? What is the role of writing in the age of artificial intelligence? Is it possible to create artificial intelligence operating according to moral principles?
Work placement	Not applicable

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