University of Gdańsk

Subject card

Subject name and code	AI in Academic Education, PG_00193511		
Field of study	Bioinformatics		
Date of commencement of studies	October 2026	Academic year of realisation of subject	2026/2027
Education level	Bachelor'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	Faculty of Languages -> Rector		
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. Hanna Makurat-Snuzik	
	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

Subject contents	Introduction. The importance of artificial intelligence in academic education. 1. Artificial Intelligence. Basic terms and concepts. Principles of operation of artificial intelligence models. 2. Artificial intelligence and human intelligence. Understanding, awareness, subjectivity. The Turing Test for Modern AI Models. 3. History of learning programs. Types of machine learning. 4. Natural language processing. How does artificial intelligence read, generate and translate texts? Prompting techniques as support in the academic education process. 5. Artificial intelligence as a set of tools supporting self-development and learning. A suite of artificial intelligence applications and tools for students. 6. The importance of writing for the development of science. The condition of writing and text created by humans in the era of generative artificial intelligence. Authorship of the text. AI-generated content in the context of copyright law. 7. The potential and threats related to the use of artificial intelligence in the process of preparing diploma theses, texts and academic projects. 8. Legal framework for the design and use of artificial intelligence. AI Act. White Paper. UNESCO recommendations. Institutional codes. 9. GDPR and the right to privacy in the era of artificial intelligence in the context of the AI Act. 10. The idea of trustworthy artificial intelligence. "Hallucinations" of artificial intelligence models. The idea of transparency in the face of disinformation and manipulation using AI systems. 11. 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. 12. Humanity as a superior value in the era of artificial intelligence. The likelihood of an existential threat related to the uncontrolled development of artificial intelligence systems. Human-centric approach and protection of human freedom as the primary goal of ethical and legal norms in the context of the development of uncontrolled artificial intelligence. 13. Superintelligence, i.e. general artificial intelligence. Paths of development, potential and cognitive superpowers. Ethical consequences of creating superintelligence. 14. Education in the era of artificial intelligence. Developing competences in the field of artificial intelligence. Developing human competences. 15. Consciously shaping your professional career in the era of artificial intelligence. Understanding the ongoing changes in the labor market in the context of the development of AI technology.
Prerequisites and co-requisites	
Assessment methods and criteria	

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

Recommended reading	Basic literature

Supplementary literature	*AI Act*; *https://eur-lex.europa.eu/legal-content/PL/TXT/?uri=CELEX:32024R1689* 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 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. Perzycka-Borowska, Elżbieta, Lib, Waldemar, Marek, Lidia, Cywiński, Aleksander (red.). 2025. *Relacje człowieka z generatywną sztuczną inteligencją. Autoetnografie nauczycieli i studentów*, Uniwersytet Szczeciński, Szczecin. 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. Szutta, Artur. 2024. Czym zajmuje się etyka sztucznej inteligencji? *Filozofuj*, 1 (55); https://filozofuj.eu/artur-szutta-czym-zajmuje-sie-etyka-sztucznej-inteligencji/ Turing, Alan. 1950. Computing Machinery and Intelligence, *Mind*, New Series, 59, 236, 433-460. UNESCO. 2024. *Zalecenie UNESCO w sprawie etyki sztucznej inteligencji. Kształtowanie przyszłości naszych społeczeństw*; https://epale.ec.europa.eu/pl/resource-centre/content/zalecenie-unesco-w-sprawie-etyki-sztucznej-inteligencji-kształtowanie , 1 stycznia 2024. 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		
Work placement	Not applicable	

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