

Subject card

Subject name and code	Legal and ethical aspects of AI, PG_00150275						
Field of study	English Studies						
Date of commencement of studies	October 2024	Academic year of realisation of subject			2025/2026		
Education level	Master's studies	Subject group			Obligatory subject group in the field of study Optional subject group Subject group related to scientific research in the field of study		
Mode of study	full-time studies	Mode of delivery			at the university		
Year of study	2	Language of instruction			Polish		
Semester of study	4	ECTS credits			2.0		
Learning profile	academic	Assessment form					
Conducting unit	Institute of English and American Studies -> Faculty of Languages -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Maria Fengler				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	0.0	0.0	0.0	15
	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	15		0.0		34.0	49
Subject objectives	Students will be introduced to the following issues related to artificial intelligence.I. Morality, ethics, lawII. The language of legal and ethical discourse about artificial intelligenceIII. InformationIV. Ethics of information.V. Algorithm or what?VI. Artificial agent, or whose agent? VII. Artificial agent, or whose agent? VIII. SingularityIX. Privacy in the age of artificial intelligenceX. Reuse of informationXI. Accountability.XII. Artificially intelligent lawyerXIII. Conclusions - A unified framework of rules for AI in society						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[FAMU2_K05] Is ready to think and act in an entrepreneurial way in various spheres of professional activity related to the use of the English language	Is ready to think and act in an entrepreneurial manner in the professional activities of a natural language processing specialist.	[SK1] oral statement/conversation/discussion [SK2] presentation/project/paper/report
	[FAMU2_K02] Is prepared to recognise the importance of knowledge and skills in English Studies in solving cognitive and practical problems and to seek the advice of a supervisor in their chosen place of work in the event of difficulty in solving problems on their own.	Is ready to recognize the importance of knowledge and skills in the legal and ethical aspects of artificial intelligence in solving cognitive and practical problems in the professional activities of a specialist in natural language processing, and to consult a research supervisor or mentor at the chosen workplace in case of difficulties in solving problems independently.	[SK1] oral statement/conversation/discussion [SK2] presentation/project/paper/report
	[FAMU2_U07] Can lead a debate on linguistics and literature within the framework of English Philology, present and evaluate various opinions and positions, and discuss them in English and Polish.	Is able to conduct a debate, in particular on topics concerning the legal and ethical aspects of artificial intelligence, present and evaluate various opinions and positions and discuss them.	[SU1] oral statement/conversation/discussion
	[FAMU2_K06] Is ready to observe, disseminate and develop the principles of ethics in research work in the field of English linguistics and literature and in professional work.	Is ready to observe, disseminate and develop the principles of ethics in the professional activities of a specialist in natural language processing.	[SK1] oral statement/conversation/discussion [SK2] presentation/project/paper/report
	[FAMU2_W15] Knows and understands the grammatical and lexical principles of the English language, the principles of constructing written and oral statements, and the cultural conventions of communication in English at the C2 level.	Knows and understands the legal considerations and ethical aspects of the professional activity of a specialist in natural language processing.	[SW1] oral statement/conversation/discussion [SW2] presentation/project/paper/report
	[FAMU2_W16] Knows and understands the fundamental dilemmas of modern civilization in the context of issues related to intercultural linguistic and literary communication and the role of modern technologies in the work of the English philologist.	Knows and understands the concepts and principles of copyright law and property protection law applicable to the professional activities of a specialist in natural language processing.	[SW1] oral statement/conversation/discussion [SW2] presentation/project/paper/report
	[FAMU2_U05] Can use and present orally and in writing knowledge in the field of auxiliary and related sciences, which is a context for English linguistic and literary studies and supports the professional work of an English philologist.	Is able to use and present orally and in writing the knowledge of legal and ethical aspects of artificial intelligence necessary in the professional activities of a natural language processing specialist.	[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report
	[FAMU2_W12] Knows and understands the main development trends in literature, in particular with regard to research into English-language literature.	Knows and understands selected issues in the legal and ethical aspects of artificial intelligence necessary in the professional activities of a specialist in natural language processing.	[SW1] oral statement/conversation/discussion [SW2] presentation/project/paper/report
	[FAMU2_W14] Knows and understands selected issues connected to various disciplines constituting auxiliary and related sciences of English Philology, necessary as a context for research in the field of English linguistics and English-language literatures or in the professional activity of the English philologist.	Knows and understands the fundamental dilemmas of modern civilization in connection with the development of artificial intelligence.	[SW1] oral statement/conversation/discussion [SW2] presentation/project/paper/report

Subject contents	<p>I. Morality, ethics, law Morality and ethics Normative ethics Relationship between law and morality Sanctioning of morality by law Immanuel Kant and the universal law of liberty John Stuart Mill and the principle of harm Moralism and paternalism of law Moral neutrality of law II. The language of legal and ethical discourse on artificial intelligence Does there a legal or jurisprudential definition of artificial intelligence and why is the legal definition different from the jurisprudential definition? Descriptive statements (sentences) Evaluations and evaluative statements Directives and norms Regulations and norms Performative utterances and speech act theory System of sources of Polish law System of sources of EU law Standardization documents and formal specifications Program documents The impact of political decisions Why not Asimov's laws? Fundamental rights as moral and legal entitlements III. Information Data vs. information Information and its medium from Wiener and Shannon to the law on the computerization of administration Synergy of information Attributes, features, records, objects Man as an object Personal and non-personal data - introduction Cyberspace Cyberspace as a legal concept State information infrastructure and its regulation Cyber security information vs. critical infrastructure Information security criminal law protection of IT systems Hacking of artificial intelligence - introduction IV. Information ethics. Part I Supervised and self-directed learning Anticipation and understanding Athens and Babylon from Toulmin to Pearl Human and robot interaction as a method Human and robot interaction as an effect Artificial intelligence and robotics, common parts and disconnected areas In the thicket of ethical standards Teaching ethics in depth. Between Kaiser and Ma The double success of AI ethics according to L. Floridi Information resource and antitrust law. Abuse of dominant position in the infosphere Covert or unconscious discrimination gender, race, ethnicity, religion, age, etc. VI. Algorithm or what? al-Khwarizmi Classical algorithms understanding Artificial intelligence algorithms Technical understanding of algorithms in AI using machine learning as an example Algorithm as a black box Black Box Society Virtualization of the operating environment of artificial intelligence algorithms Artificially intelligent entity. Difference towards computer, machine, bot, platform, base and program Transparency of the algorithm Law as code Algorithm as a work. Copyright protection Algorithm as a program. Special protection in copyright law. Algorithm as a set of operations on a database. Legal protection of databases. Algorithm as an innovation. Patent protection Algorithm as part of the critical infrastructure of the state and its protection. VII. Artificial agent, or whose agent? Part I The concept of homo poieticus as a bridge between physis and techne Artificially intelligent evil The tragedy of goodwill The curse of the Turing test Do we need artificial conscious agents? Legal personality of the agent Statement of intent made by artificial intelligence Artificial intelligence and the rules of civil liability VIII. Artificial agent, or whose agent? Part II Binary ethics and mathematical ethics Selection algorithms (examples: disaster medicine, war medicine) Formalized ethics in the pre-AI era (examples: ethics committees, clinical trials) Dilemmas of non-artificial intelligence - Prenatal testing, breeding with selection, eugenics AI-based personalization as a new challenge for consumer law Collision autonomy of artificial intelligence IX. Singularity The concept of singularity Matrix The extent to which data processing technology exceeds human capabilities Automation and the labor market The future of work Automation of operations Computerization vs. automation Weapons automation When an option becomes an obligation X. Privacy in the age of artificial intelligence The concept of privacy in different cultures Privacy in law - from Warren and Brandeis to RODO Privacy versus data protection Informational self-determination Privacy vs. transparency Public information Celebrities Ontological interpretation Digital immortality - data processing after a person's death and dead accounts XI. Reuse of information The concepts of re-use and PSI in European law Open data, Shared data spaces, Data lakes XII. Accountability. Part I Distribution of morality Responsibility for the slave Requirements for trustworthy artificial intelligence Business ethics Compliance vs. ethics Data accountability vs. algorithm accountability Attacks on supervised learning systems Operational risks Attacks on spam filters using AI Attacks on fraud detection systems Attacks on resources - buffer overflows and offsite processing Attacks on development environments (attacks on platforms, devices and libraries) XIII. Accountability. Part II Accountability (accountability) What is human-centric AI? Human oversight AI governance. Is a regulator needed? XIV. Artificially intelligent lawyer Ross - an artificially intelligent assistant Court AI Expert systems in courts Artificial intelligence and access to justice AI in the service of a law firm Out-of-court dispute resolution using AI Artificially intelligent witnesses - AI and the law of evidence Predictive policing AI in the service of anti-money laundering AI and facial recognition. The Clearview case AI at Europol AI in the settlement of inheritance cases XV. Conclusions - A unified framework of principles for AI in society Doing good: promoting prosperity, human dignity and sustainable development Non-profit: privacy, security and nec temere nec timide. Autonomy: the right to decide (whether to decide) Justice: prosperity and solidarity Explainability and accountability</p>		
Prerequisites and co-requisites	Choice of the Specialisation Natural Language Processing		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	project	51.0%	80.0%
	active participation in class activities	51.0%	20.0%

Recommended reading	Basic literature	<ol style="list-style-type: none"> 1. Grant Thomas D., Wischik Damon J., <i>On the path to AI: Laws prophecies and the conceptual foundations of the machine learning age</i>, Pylgrave, Cambridge 2020 https://lawcat.berkeley.edu/record/1171568; 2. 3. Hildebrandt Mireille <i>11. Closure: on ethics, code and law</i> In: <i>Law for Computer Scientists</i> [Internet]. 2019. https://lawforcomputerscientists.pubpub.org/pub/nx5zv2ux; 4. 5. Hildebrandt Mireille <i>9. Legal Personhood for AI? In: Law for Computer Scientists</i> [Internet]. 2019. https://lawforcomputerscientists.pubpub.org/pub/4swyxhx5; 6. Lai Luigi, Świerczyński Marek [red.] <i>Prawo sztucznej inteligencji</i>, C.H.Beck, Warszawa 2020; 7. Müller Vincent C, <i>Ethics of Artificial Intelligence</i>, In: <i>The Routledge social science handbook of AI, "Ethics of AI and Robotics" for Stanford Encyclopedia of Philosophy</i>, Routledge, London 2020, https://www.researchgate.net/publication/340885907_Ethics_of_Artificial_Intelligence; 8. Surma Jerzy [red.], <i>Hakowanie sztucznej inteligencji</i>, PWN, Warszawa 2020; 9. Weiyu Keng Siau, <i>Artificial Intelligence (AI) Ethics: Ethics of AI and Ethical AI</i> <i>Journal of Database Management</i> 2020 31(2):74-87 https://www.researchgate.net/publication/340885907_Ethics_of_Artificial_Intelligence; 10. Zalewski Tomasz, <i>Rozdział I. Definicja sztucznej inteligencji</i> [w:] Luigi Lai, Marek Świerczyński [red.] <i>Prawo sztucznej inteligencji</i>, C.H.Beck, Warszawa 2020 https://www.ksiegarnia.beck.pl/media/product_custom_files/1/9/19235-prawo-sztucznej-inteligencji-luigi-lai-fragment.pdf; <p>Dokumenty:</p> <ol style="list-style-type: none"> 1. <i>White Paper on Artificial Intelligence: a European approach to excellence and trust</i> https://ec.europa.eu/info/files/white-paper-artificial-intelligence-european-approach-excellence-and-trust_en 2. <i>Proposal for a Regulation on European data governance (Data Governance Act)</i> https://ec.europa.eu/digital-single-market/en/news/proposal-regulation-european-data-governance-data-governance-act 3. <i>Ethics Guidelines for Trustworthy AI prepared by the High-Level Group on Artificial Intelligence published on 8 April 2019</i> https://ec.europa.eu/digital-single-market/en/news/ethics-guidelines-trustworthy-ai 4. <i>Policy and Investment Recommendations for Trustworthy AI prepared by the High-Level Group on Artificial Intelligence published on 8 April 2019</i> https://ec.europa.eu/digital-single-market/en/news/policy-and-investment-recommendations-trustworthy-artificial-intelligence 5. <i>The Report on liability for Artificial Intelligence and other emerging technologies prepared by the Expert Group on Liability and New Technologies New Technologies Formation and published on 21 November 2019</i> https://ec.europa.eu/newsroom/dae/document.cfm?doc_id=63199 6. <i>Council of Europe: Recommendation CM/Rec(2020)1 of the Committee of Ministers to member States on the human rights impacts of algorithmic systems (Adopted by the Committee of Ministers on 8 April 2020 at the 1373rd meeting of the Ministers Deputies)</i> https://search.coe.int/cm/pages/result_details.aspx?objectid=09000016809e1154 7. <i>Executive Order on Maintaining American Leadership in Artificial Intelligence</i>, 11 February 2019 https://www.whitehouse.gov/presidential-actions/executive-order-maintaining-american-leadership-artificial-intelligence/
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Supplementary literature	<ol style="list-style-type: none"> 1. Adams-Prassl Jeremias, When Your Boss Comes Home [2020 Ethics of AI in Journal 11] 2. Ajunwa Ifeoma, The Paradox of Automation as Anti-Bias Intervention [2019 Ethics of AI in Journal 26] 3. Barabas Chelsea, Beyond Accuracy and Bias: The Pursuit of Ethical AI in Criminal Law [2019 Ethics of AI in Journal 6] 4. Basl John, AI Rights [2019 Ethics of AI in Journal 9] 5. Basl John, Behrends Jeff, Why Everyone Has It Wrong About the Ethics of Autonomous Vehicles [2019 Ethics of AI in Journal 29] 6. Behrends Jeff, Ethics Education in Computer Science: The Embedded EthiCS Approach [2019 Ethics of AI in Journal 30] 7. Book Forum on Smart Cities in Canada: Digital Dreams, Corporate Designs (Valverde & Flynn eds., 2020) [2021 C4eJ 9] (feat. Mariana Valverde & Alexandra Flynn (editors); Beth Coleman, Renee Sieber, & David Murakami Wood (commentators); Jamie Duncan (moderator)) 8. Brown Étienne, Misinformation and Freedom of Expression [2019 Ethics of AI in Journal 4] 9. Cantwell Smith Brian, Reckoning and Judgment [2017 Ethics of AI in Journal 8] 10. Das Sunit, AI in Medicine: Hopes? Nightmares? [2017 Ethics of AI in Journal 7] 11. De Stefano Valerio, Algorithmic Bosses and How to Tame Them [2020 Ethics of AI in Journal 12] 12. Donath Judith, Artificial Entities [2019 Ethics of AI in Journal 7] 13. Editors Preface, in Oxford Handbook of Ethics of AI (Dubber, Pasquale, Das) [2019 Ethics of AI in Journal 25] 14. Estlund Cynthia, Why Work Is a Social Good and Freedom Is Overrated [2020 Ethics of AI in Journal 13] 15. Eubanks Virginia, Automating Inequality: How High-Tech Tools Profile, Police and Punish the Poor [2019 Ethics of AI in Journal 16] 16. Fancy Muriam, Governance of Ethical AI: Methodologies to Procure Low Risk AI for Public Use [2020 Ethics of AI in Journal 27] 17. Ferry-Danini Juliette, What Is the Problem with the Opacity of Artificial Intelligence in Medicine? [2021 Ethics of AI in Journal 3] 18. Fox Mark S., Accountable AI Systems [2018 Ethics of AI in Journal 21] 19. Goldenberg Anna, Advances and Challenges of AI in Healthcare [2019 Ethics of AI in Journal 32] 20. Goodman Ellen P., Smart City Ethics [2019 Ethics of AI in Journal 15] 21. Gowder Paul, Legal Ethics in the Age of Law & Tech [2017 Ethics of AI in Journal 2] 22. Greene Daniel, Making Ethics in Machine Learning [2019 Ethics of AI in Journal 33] 23. Halpern Joe, Moral Responsibility, Blameworthiness, and Intention: In Search of Formal Definitions [2017 Ethics of AI in Journal 4] 24. Hanna Alex, Data, Transparency, and AI Ethics [2020 Ethics of AI in Journal 18] 25. Hannah-Moffat Kelly: Response to E.G. Rajan on Crime Prediction Support System [2018 Ethics of AI in Journal 20] 26. Heffernan Teresa, The Ethical Imagination: Humanities versus Artificial Intelligence [2019 Ethics of AI in Journal 27] 27. Heffernan Teresa, AI, the Immortality Industry, and the Ethics of Death [2020 Ethics of AI in Journal 22] 28. Hildebrandt Mireille, Legal Ethics in the Age of Law & Tech [2017 Ethics of AI in Journal 1] 29. Hildebrandt Mireille, The Ethics of Agonistic Machine Learning [2018 Ethics of AI in Journal 7] 30. Hume Kathryn, Ethical Algorithms: Bias and Explainability in Machine Learning [2018 Ethics of AI in Journal 14] 31. Jackson Jason, The Ethics of AI: A Political Economy Approach [2019 Ethics of AI in Journal 13] 32. Jasanoff Sheila: Ethical Futures, Imagination and Governance in an Unequal World [2017 Ethics of AI in Journal 6] 33. Kearns Michael, The Ethical Algorithm [2019 Ethics of AI in Journal 2] 34. Kingwell Mark, Respect and the Artificial Other [2017 Ethics of AI in Journal 5] 35. Koivisto Ida, Thinking Inside the Box: The Promise and Boundaries of Transparency in Automated Decision-Making [2020 Ethics of AI in Journal 3] 36. Lanier Jaron Z., Ethics in the Digital Era, EDPS 2017, https://edps.europa.eu/press-publications/press-news/videos/ethics-digital-era-interview-jaron-lanier_en 37. Lauriault Tracey, From Aspiration to Reality: Open Smart Cities [2019 Ethics of AI in Journal 3] 38. McIlraith Sheila, Making Good Decisions and Getting AI to Do the Same [2019 Ethics of AI in Journal 17] 39. Pasquale Frank, Legal Ethics in the Age of Law & Tech [2017 Ethics of AI in Journal 3] 40. Posada Julian, The Future of Work is Here: Toward a Comprehensive Approach to Artificial Intelligence and Labour [2020 Ethics of AI in Journal 16] 41. Rajan E.G. Crime Prediction Support System [2018 Ethics of AI in Journal 19]
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	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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