



Syllabus of the course

« Potential and Risks of AI Use in the Educational Sphere»

Specialty	All
Study Programme	All
Level (Bachelor, Master, PhD)	PhD
Course status	Elective
Teaching language	English
Number of ECTS credits	5 credits
Workload	Lectures – 0 hours. Tutorials – 40 hours. Laboratory studies – 0 hours. Self-study – 110 hours.
Assessment method	Assignment
Department	Department of Pedagogy, Foreign Philology and Translation, first building, room 502, site of the department: http://www.kafpif.hneu.edu.ua/
Teaching staff	Pohorielova Tetiana, Associate Professor, PhD in Pedagogy.
Course coordinator	
Contacts of teaching staff	tatyana.pogorelova@hneu.net
Office hours	At the Department of Pedagogy, Foreign Philology and Translation, face-to-face, according to the consultation schedule, individual, PLS chat
Course Schedule	Tutorials: according to the schedule

Learning objectives and skills

The objective of the academic discipline "Potential and Risks of AI Use in the Educational Sphere" is to develop competence that involves forming a modern scientific worldview and a system of specialized knowledge about artificial intelligence technologies applied in contemporary learning environments. It also aims to equip learners with skills in analyzing, designing, and managing these technologies and familiarize them with current trends in AI development, its potential, and the existing risks associated with its use in education.

Content of the course

Module 1: Artificial Intelligence in Educational Activities

Topic 1. The Phenomenon of Artificial Intelligence: Essence and Concept

1.1. History, trends, and prospects of AI development.

1.2. Philosophical aspects of AI use in professional and scientific activities.

Topic 2. Classification of Artificial Intelligence Systems

2.1. Major AI systems. Overview of text-based AI applications, including ChatGPT and similar tools.

2.2. Knowledge and its role in AI systems. Methods of knowledge acquisition and representation.

Topic 3. The potential of AI in Education

3.1. Innovative teaching methods utilizing AI.

3.2. Individualization and personalization of learning.

3.3. AI-assisted creation of educational content.

Module 2: Academic Integrity and Ethical Use of AI in Education

Topic 4. Risks of AI Use in Education

4.1. Challenges in assessing students' academic achievements in an AI-driven society.

4.2. Psychological safety and equality among participants in the educational process in the context of AI use.



Topic 5. Academic Integrity Issues in AI-Assisted Educational Activities

- 5.1. Copyright, plagiarism, and anti-plagiarism concerns in the context of AI use in education.
- 5.2. Ethical AI use in education. Organizing students' academic work with AI.
- 5.3. Methods for detecting AI-generated content.

Topic 6. AI in Scientific Research

- 6.1. Ethical scientific research in an AI-driven society.
- 6.2. AI's potential in conducting modern scientific research.

Teaching environment (software)

Multimedia projector; PLS of S. Kuznets KhNUE, ZOOM

Course page on the Moodle platform (personal training system)

E-course materials: course description; syllabus; working plan; list of recommended readings; course sections containing practical learning tasks of professional orientation, as well as tasks for independent work of students and Internet resources

<https://pns.hneu.edu.ua/course/view.php?id=11095>

Recommended reading

1. Пушкар, О. І. Інженерна педагогіка та навчання на робочому місці [Електронний ресурс] : навч. посіб. / О. І. Пушкар, О. С. Завгородня ; Харківський національний економічний університет ім. С. Кузнеця. - Електрон. текстові дан. (1,57 МБ). - Харків : ХНЕУ ім. С. Кузнеця, 2018. - 170 с. : іл. - Загол. з титул. екрану. - Бібліогр.: с. 141-149. - [Електронний ресурс] – Режим доступу: <http://repository.hneu.edu.ua/handle/123456789/22765> .
2. Універсальний дизайн в освіті: посібник / Під заг. ред. Софій Н. З., – К.: ТОВ «Видавничий дім «Плеяди», 2015. – 76 с. - [Електронний ресурс] – Режим доступу: <https://center-prpp.ck.ua/wp-content/uploads/2021/07/UniversalniyDizain.pdf>
3. Tzirides, AO.(. *et al.* (2024). Generative AI Application in Higher Education Student Work. In: Kourkoulou, D., Tzirides, AO.(., Cope, B., Kalantzis, M. (eds) Trust and Inclusion in AI-Mediated Education. Postdigital Science and Education . Springer, Cham. - [Електронний ресурс] – Режим доступу: https://doi.org/10.1007/978-3-031-64487-0_13
4. Owoseni, A., Kolade, O., & Egbetokun, A. (2024). *Generative AI in higher education: Innovation strategies for teaching and learning*. Palgrave Macmillan Cham. - [Електронний ресурс] – Режим доступу: <https://link.springer.com/book/10.1007/978-3-031-60179-8>
5. Narciso, P. (2024). *Generative AI in education: A guide for parents and teachers*. Apress. _____ - [Електронний ресурс] – Режим доступу: <https://link.springer.com/book/10.1007/979-8-8688-0844-9>

Assessment system

The university uses a 100-point accumulative system for evaluating the learning outcomes of students.

Current control is carried out during practical/tutorials (seminar) classes and is aimed at checking the level of preparedness of a student to perform a specific job and is evaluated by the sum of points scored.

The final control includes the semester control, which is conducted in the form of the exam.

The maximum possible number of points for current control during the semester for the course is 60, and the minimum possible number of points is 35.

The maximum possible number of points for the exam is 40 and the minimum possible number of points is 25.

More detailed information on assessment is given in the technological card of the course.

Course policies

The teaching is based on the principles of academic integrity. Violations of academic integrity include: academic plagiarism, fabrication, falsification, plagiarism, deception, bribery, biased evaluation. For violation of academic integrity, students are subject to the following academic responsibility: repeated assessment of the corresponding type of educational work.



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