



X International Scientific and Practical Conference on Psychological and Pedagogical Problems of Modern Specialist Formation

June 10–13, 2025

Portugal – Ukraine



Implementing of Artificial Intelligence in a Higher Educational Ecosystem

DOI: 10.26697/KRPOCH.Melnyk.Pypenko.report.2.2025



Yuriy Melnyk,

PhD, MPSI, MIM, MPES

Affiliated Associate

Professor



Iryna Pypenko,

PhD, MIM,

Affiliated Associate

Professor



Research Methods

The present study used several theoretical methods:

1. To define the benefits and challenges of AI use by stakeholders:

- analysis and synthesis,
- comparison,
- generalisation,
- systematisation,
- classification.

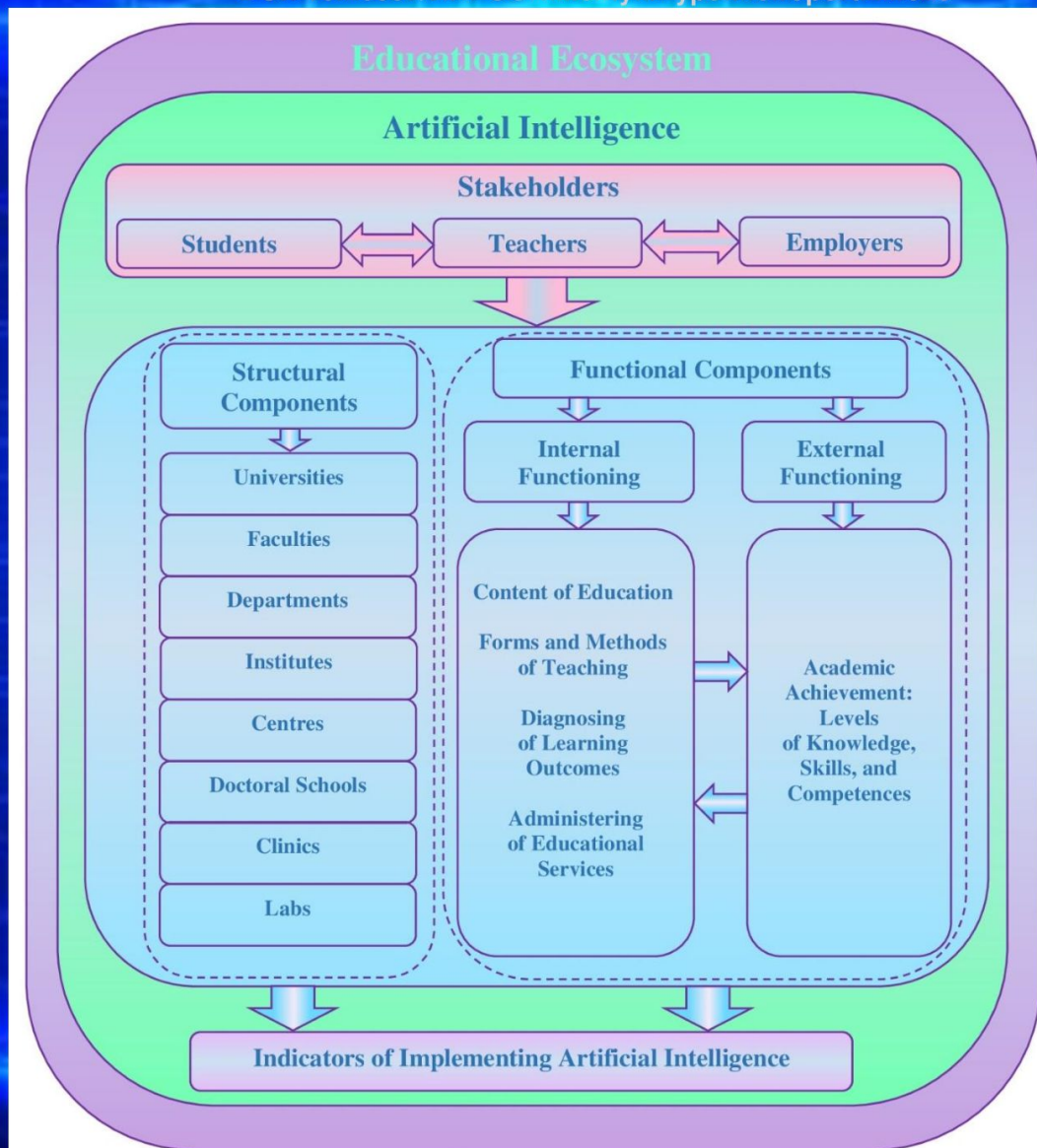
2. To develop a model for the optimal implementation of AI in a higher educational ecosystem:

- systems approach, modelling, and optimisation methods.



Directions of Implementing AI in Higher Education

- 1. Content of education (e.g. development of training programmes, courses, topics).**
- 2. Forms and methods of teaching (e.g. personalisation of learning and tutoring; a wide range of verbal, visual, gaming and other learning methods; innovative technologies such as virtual reality and augmented reality; translation tools; chatbots).**
- 3. Diagnosing of learning outcomes (e.g. use of testing, quizzes, ease of student assessment, provision of continuous feedback).**
- 4. Administering of educational services (e.g. developing competitive education strategies, optimising learning planning, data analysis, planning, record keeping, course selection, credit counting, using chatbots for marketing).**





Conclusions

Educational stakeholders are encouraged to use the available benefits of AI responsibly and effectively to meet the challenges of student learning in higher education, taking into account the ethical and legal implications of its use.

Addressing these challenges and regularly improving digital literacy in higher education will contribute to the development of advanced educational ecosystems.

University administrators should consider both the social demand from students and their own capacity to implement AI to deliver innovative study programmes. These programmes should be relevant and meet the current needs of employers. It is also important to pay attention to building the capacity of higher education stakeholders for the intensive AI development process in the near future.



**If you are interested in partnering,
please directly contact us:
academic@intercorporate.org**

