

28 - 30 November 2025

Vienna , Austria

The Use of Generative Ai Technologies in the Teacher's Educational Process

Kintonova Aliya , Prof. Dr. Kismanova Aigerim , N. Karelkhan , A. Barlybayev , A. Toleitay

Eurasian University, Kazakhstan

Abstract

This research was funded by the Ministry of Science and Higher Education, the Science Committee, and carried out within the framework of the project AP26195651 “Development of an adaptive learning system based on artificial intelligence for the integration of AI technologies into the teaching and research activities of educators.”

One of the key areas of educational modernization is the integration of artificial intelligence (AI) into teachers' professional activities. AI provides wide opportunities to enhance the efficiency of preparation for the educational process: from automating routine tasks to deeply personalizing educational content. Such technologies transform the role of the teacher, allowing them to focus on the creative, methodological, and communicative aspects of teaching. The article presents examples of the use of AI technologies in the learning process. The development of artificial intelligence (AI) technologies in recent decades has radically changed the field of education. If earlier digitalization was limited to the introduction of electronic textbooks and distance learning systems, today AI enables the creation of personalized learning paths, intelligent tutors, systems of automatic assessment, and prediction of learning outcomes. These changes not only improve the quality of the educational process but also transform the very role of the teacher, emphasizing their function as a mentor, analyst, and curator of individual learning strategies.

Keywords: Ai Technologies, Generative Ai Technologies, Generation of Learning Materials, Optimization of Teaching Work