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INNOVATIVE APPROACHES AND NEW METHODS IN EDUCATION IN THE ERA OF ARTIFICIAL INTELLIGENCE

Asadova Ruxshona Alisher kizi

Kuchkarova Fotima Shaxobiddin kizi

Baxodirova Rukhsora Farrukhjon kizi
3rd-year students, Primary Education
Tashkent International University of Chemistry, Samarkand branch

Annotation

This article examines innovative approaches and new methods in education in the era of artificial intelligence. In contemporary education, fostering students' independent thinking, creativity, and active participation in the learning process has become one of the most significant priorities. One of the main factors contributing to the decline in the quality of education today is the excessive dependence of young people on digital devices, particularly mobile phones. In many cases, parents allow children to use these gadgets as a source of comfort or relaxation, which further reinforces this dependency. As a result, traditional textbooks and conventional teaching methods often fail to sustain students' interest. Therefore, this article explores effective strategies for enhancing lesson engagement, interactivity, and overall learning outcomes through the integration of innovative and technology-based methods in the educational process.

Keywords

Education, innovative methods, artificial intelligence, new teaching methods, interactive lessons, digital devices.

Education cannot be separated from upbringing, nor can upbringing be separated from education- this reflects an Eastern worldview and philosophy of life. Based on this fundamental principle, the primary goal and mission of the educational system should be to raise our children as well-rounded individuals who possess independent and broad-minded thinking, live consciously, and embody moral and intellectual maturity (**Islam Karimov)**

Education, as is well known, is a systematic process of providing knowledge and developing skills and competencies. As emphasized by the President of the Republic of Uzbekistan, Shavkat Mirziyoyev, education serves as a reflection of every nation. Therefore, educational management bodies consistently prioritize achieving high effectiveness and quality in educational institutions each year.

At present, the interest of many students in learning is gradually declining. One of the most important tasks in modern education is to cultivate and develop students' critical and creative thinking skills, as well as to motivate them to achieve academic and personal success.

Ongoing reforms in the field of education require continuous improvement of the learning process through the introduction of modern approaches and new teaching methods. The application of diverse instructional strategies contributes to organizing the learning process in an engaging, effective, and interactive manner. In particular, the use of innovative methods plays a crucial role in developing students' worldview and thinking abilities in today's digital era. Innovative teaching methods are defined as pedagogical technologies and approaches that enhance students' classroom engagement, encourage independent thinking, and actively involve every learner in the educational process. Such methods include brainstorming, blitz questioning,

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clustering, INSERT strategy, debates, and role-playing activities. These methods significantly strengthen students' creative and critical thinking skills and transform them into active participants in the learning process rather than passive recipients of information.

The use of innovative methods not only increases lesson effectiveness but also develops essential competencies such as clear self-expression, problem-solving abilities, teamwork skills, and communication competence. As a result, the learning process is no longer one-sided; instead, it is built on collaborative interaction between teachers and students. Consequently, innovative methods in modern education contribute not only to deeper knowledge acquisition but also to the formation of essential life skills. As previously mentioned, many parents use digital devices as a means of calming or entertaining children. As a result, children become accustomed to technological devices from an early age and gradually lose interest in traditional learning materials such as printed textbooks and written assignments. This situation negatively affects the quality of education, as students become less engaged in classroom activities, struggle to maintain concentration, and demonstrate lower levels of knowledge retention.

Therefore, the integration of innovative approaches such as interactive teaching methods, multimedia tools, and artificial intelligence–based learning platforms has become essential in contemporary education. In the era of globalization and rapid technological advancement, the education system requires a fundamentally new approach. The widespread implementation of artificial intelligence provides significant opportunities to modernize the learning process, foster independent thinking, and enhance overall educational effectiveness. Artificial intelligence technologies are particularly valuable due to their ability to analyze student performance data, identify learning pace, and generate personalized learning programs. This ensures an individualized approach to education for each learner. For instance, AI-based educational platforms can automatically detect mistakes, provide tasks with appropriate levels of difficulty, and offer real-time feedback and recommendations. Consequently, the learning process becomes more flexible, efficient, and learner-centered. The integration of new teaching methods further enriches the educational process. Approaches such as project-based learning, problem-based learning, gamification, and the STEAM approach encourage students to be active, creative, and independent thinkers. These methods significantly increase students' interest in lessons and enhance their motivation to learn.

Interactive lessons represent one of the most essential components of modern education. Through interactive instruction, students are no longer passive listeners but active participants in the learning process. The use of multimedia resources, virtual laboratories, online assessments, interactive games, and digital presentations makes lessons more engaging, visual, and comprehensible. When used effectively, digital devices offer valuable opportunities for visual and practical learning. Although excessive use of gadgets may have negative effects, proper guidance and balanced integration can lead to positive educational outcomes.

In conclusion, the effective integration of innovation and artificial intelligence in education necessitates that teachers adopt new methods, interactive technologies, and creative approaches in their teaching practice. A modern teacher should not merely transmit knowledge but act as a guide who encourages students to think critically, explore independently, and make informed decisions. Thus, innovative approaches and AI technologies play a pivotal role in shaping a dynamic, effective, and future-oriented education system.

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