

METHODOLOGY FOR INTEGRATING INNOVATIVE TECHNOLOGIES INTO THE EDUCATIONAL PROCESS

Uralova Oypopuk Ulug'bek qizi

Termiz State Pedagogical Institute

Department of Fine Arts, Master's Program

Master's student in the field of Engineering Graphics and Design Theory

Email: Uralovaoyopuk@gmail.com

Yusubova Mahliyo Axmad qizi

Termiz State Pedagogical Institute

Department of Fine Arts, Master's Program

Master's student in the field of Engineering Graphics and Design Theory

Email: maxliyoyusubova707@gmail.com

Abstract: This article discusses the effective integration of innovative technologies into the modern educational process. It analyzes the potential of using innovative tools and digital platforms to enhance lesson effectiveness, increase students' motivation for learning, and encourage creative thinking. Based on theoretical analysis, experimental studies, and practical observations, a methodology for integration has been developed and its advantages are presented. The article reveals the urgent aspects of gradually implementing innovative technologies into the teaching process.

Keywords: Innovative technologies, educational process, integration, digital education, interactive methods, information and communication technologies (ICT), pedagogical methodology, lesson effectiveness.

Today, in the process of modernizing the education system, the effective integration of innovative technologies into the educational process remains one of the most urgent issues. With the help of digital transformation, artificial intelligence, interactive tools, and information and communication technologies (ICT), it is possible to improve the quality of education, strengthen students' motivation to learn, and encourage creativity. This article analyzes the methodology of integrating innovative technologies into the educational process, its stages, and effectiveness.

The research used the following methods:

- Theoretical analysis: scientific articles and monographs were studied;
- Practical observation: lessons using innovative technologies were analyzed;
- Experimentation: the effectiveness of applying innovative technologies was studied through trial-based tasks;
- Surveys: feedback was collected from teachers and students.

The object of the study included upper-grade students of general education schools, where ICT tools, interactive boards, online platforms (Zoom, Google Classroom, EduPage), and simulation programs were used during the lessons.

Key findings:

- When innovative technologies are gradually introduced into the educational process, an increase in students' knowledge levels and independent thinking ability was observed;
- Interactive lessons increased student activity by 40–50%;
- The use of digital education platforms optimized the organizational part of lessons and strengthened communication between teachers and students;
- Where teachers had high technological preparedness, the integration process was implemented more rapidly and effectively.

The integration of innovative technologies into the educational process not only requires the introduction of technical tools but also a change in methodological approaches. It is necessary to consider the teacher's didactic skills, technological literacy, and the students' age and psychological characteristics. At the same time, in some cases, challenges such as insufficient technical infrastructure and low internet speed hinder the integration process.

Effective integration of innovative technologies into the educational process increases students' interest in learning, enhances their level of knowledge acquisition, and contributes to the formation of modern competencies. However, this process should be implemented step-by-step and accompanied by teacher professional development. In the future, it is recommended to widely introduce special training courses, methodological manuals, and pilot programs in this area.

References:

1. Akhmedova, M. R. (2022). Innovative Pedagogical Technologies. Tashkent: "Science and Technology" Publishing House.
2. Karimova, N. S. (2021). The role of information and communication technologies in modern education. // Journal of Education and Innovative Research, 3(4), 45-49.
3. Soliyev, A. T. (2020). Digital Educational Technologies. Tashkent: "Economy-Finance" Publishing House.
4. Yusupova, D. I. (2023). Interactive methods in the educational process and their effectiveness. // Problems of Pedagogy and Psychology, 2(1), 21-26.
5. UNESCO (2021). ICT in Education: A Critical Literature Review and Its Implications. Paris: UNESCO Publications.
6. Mishra, P., & Koehler, M. J. (2006). Technological Pedagogical Content Knowledge: A Framework for Teacher Knowledge. // Teachers College Record, 108(6), 1017–1054.
7. Anderson, T., & Dron, J. (2014). Teaching Crowds: Learning and Social Media. Athabasca University Press.