

**WAYS TO IMPROVE THE QUALITY OF EDUCATION BASED ON MODERN
PEDAGOGICAL TECHNOLOGIES**

(Zamonaviy pedagogik texnologiyalar asosida ta'lim sifatini oshirish yo'llari)

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Annotation: This article broadly covers the essence of the effective use of innovative pedagogical technologies in the educational process, their role and importance in improving the quality of education. The article analyzes the methodological possibilities of implementing new methods and technologies in pedagogical processes and shows their impact on increasing the effectiveness of lessons. Information is also provided on how to achieve efficiency in conducting lessons and take a new approach to the educational process by using new methods and technologies in the educational process.

Keywords: innovation, pedagogical technology, quality of education, IT specialists, innovative approach, kahoot and quizizz

Annotatsiya: Mazkur maqolada ta'lim jarayonida innovatsion pedagogik texnologiyalardan samarali foydalanishning mohiyati, ta'lim sifatini oshirishdagi o'rni va ahamiyati keng yoritilgan. Maqolada pedagogik jarayonlarda yangi metod va texnologiyalarni tatbiq etishning metodik imkoniyatlari tahlil qilinib, ularning dars mashg'ulotlarining samaradorligini oshirishga ta'siri ko'rsatib berilgan. Shuningdek, yangi metod va texnologiyalarni ta'lim jarayonida qo'llash orqali dars mashg'ulotlarini olib borishdagi samaraga erishish va ta'lim jarayoniga yangicha yondashish borasida ma'lumotlar keltirilgan.

Kalit so'zlar: innovatsiya, pedagogik texnologiya, ta'lim sifati, IT mutaxassislari, innovatsion yondashuv, kahoot va quizizz

Аннотация: В данной статье широко раскрыта сущность эффективного использования инновационных педагогических технологий в образовательном процессе, их роль и значение в повышении качества образования. В статье анализируются методические возможности внедрения новых методов и технологий в педагогический процесс, показано их влияние на повышение эффективности уроков. Также представлена информация о том, как добиться эффективности проведения уроков и нового подхода к образовательному процессу за счёт использования новых методов и технологий.

Ключевые слова: инновации, педагогические технологии, качество образования, IT-специалисты, инновационный подход, kahoot и quizizz

An incompetent teacher simply tells the truth,
The best one teaches how to find it.

A.F. Disterweg

Introduction. The current radical reforms in the education system require the widespread use of modern approaches and innovative technologies. The quality of education is considered one of the criteria for national development worldwide. Therefore, the new organization of the

pedagogical process, that is, the use of technologies that encourage students to be active and think independently, has become an urgent issue.

Main part. Modern pedagogical technologies are a set of methods aimed at increasing the effectiveness of the educational process, focused on the personality of the student, based on the principles of interactivity, innovation and independence. These include: Pedagogical technologies are an important component of the modern educational process and play an important role in achieving educational goals. They represent various teaching methods, approaches and tools that help teachers and students achieve the desired result. Assessing the effectiveness of pedagogical technologies is of great importance in determining their effectiveness and their future use. As is known, modern pedagogical technologies are a project of a certain pedagogical system that can be implemented in practice. A pedagogical system is a set of interrelated tools, methods and processes that purposefully implement pedagogical influence on the formation of certain qualities in a person. Consequently, in each society, the goal of personality formation is determined and a pedagogical system should exist in accordance with it. In recent years, the integration of pedagogical technologies into the educational process has become increasingly widespread. With the development of technologies and emerging educational paradigms, teachers are constantly looking for innovative ways to improve learning outcomes and activity.

This article examines the importance of improving and assessing the effectiveness of pedagogical technologies in modern education, taking into account their impact on teaching methodologies, students' learning experiences, and overall educational outcomes. The tasks of pedagogical technologies are to inform teachers about the essence of modern pedagogical technologies and to teach them to organize the process of classes aimed at teaching the basics of special subjects in non-traditional forms, to achieve the design of the educational process on an excellent modular basis, to acquire the skills and qualifications to rationally use the technology of designing the educational process, to be a guarantee of thorough, in-depth assimilation of theoretical knowledge by students and the formation of practical skills and qualifications in them. Pedagogical technology is inherently subjective, that is, each teacher must creatively organize the educational and upbringing process based on his or her own capabilities and professional skills. Regardless of the form, methods and means used, pedagogical technologies should achieve the following results: The role of pedagogical technologies Pedagogical technologies encompass a wide range of tools, including educational programs, online learning platforms, interactive multimedia resources and collaborative digital environments. These technologies provide teachers with various opportunities to create a dynamic and interactive learning environment adapted to the needs and preferences of today's students. The effective use of pedagogical technologies makes it possible to organize the educational process based on a personalized approach. Such an approach, taking into account the individual needs of students, serves to stimulate their active participation, develop independent thinking, critical thinking and problem-solving skills. In fact, one of the most important goals and objectives of education is to raise enterprising, ambitious, self-respecting and open-minded individuals in accordance with the modern stages of social development. From this point of view, pedagogical technologies not only improve the educational process, but also become an important factor in ensuring the spiritual and intellectual development of the individual [1;183]

Pedagogical technology is the optimal organization of educational processes. The selection of educational materials, their reworking, and their change in form and volume in accordance with the strengths and learning characteristics of the student or student also belong to educational technology. Pedagogical technology, in turn, is a system for developing and improving

educational processes, content, methods and means of education based on objective laws and diagnostic goals of education, that is, an educational process that embodies scientific and technical innovations [2;6]. The integration of pedagogical technologies allows teachers to adopt innovative teaching strategies that go beyond the boundaries of the traditional classroom. Blended learning approaches that combine face-to-face teaching with online components allow for flexibility and customization in the delivery of educational programs. The conducted classroom models allow students to independently engage with the content before the lesson, thereby maximizing the time in the lesson for active learning activities, discussions, and collaborative projects. In addition, gamification methods can be used to gamify educational activities, increasing student motivation and engagement through elements such as games, badges, and leaders. Raising a generation that is the future of an independent Uzbekistan is a delicate, extremely demanding, and internally contradictory process. Therefore, the teacher must observe the process of formation of a student or student with great enthusiasm and care. He must have pedagogical knowledge and skills while managing the pedagogical process. Only then will the teacher understand the essence and dialectics of pedagogical phenomena, the method of pedagogical work, the profession and technology, and professional pedagogy. Most educators working in the education system are increasingly aware of the necessity and importance of pedagogical skills in the process of education and upbringing.

According to M.V. Klarin, "Pedagogical technology is the design of the educational process based on a technological approach to the educational process, based on predetermined indicators and goals"[2;19]. In my opinion, this definition given by M.V. Klarin clearly and concisely expresses the essence of pedagogical technologies in the modern educational process. Because today, the organization of the educational process randomly or solely based on the personal experience of the teacher does not meet the requirements. On the contrary, it is necessary to design the educational process in advance, plan it step by step and direct it to a specific result based on a technological approach. Pedagogical technology provides this very systematization.

Pedagogical technology also allows you to organize the learning process taking into account the individual capabilities, needs and interests of the student. Based on pre-defined indicators, it becomes easier to predict educational outcomes, increase student activity, and manage and analyze the learning process. Thus, Clarin's idea serves as an important methodological basis for increasing the efficiency of the educational process, systematizing teacher activities, and ensuring student development in accordance with modern educational requirements. In this sense, pedagogical technology is not only a set of teaching methods, but also a scientifically based integrative system that serves to achieve the main goals and results of education.

Modern technologies have a positive impact on the quality of education in the following ways:

- Students' activity in the lesson increases.
- Independent thinking and critical thinking are formed.
- The opportunity to acquire knowledge quickly and effectively is created.
- It becomes easier to take into account the individual characteristics of each student.

Cooperation between the teacher and the student is strengthened.

In recent years, the widespread use of platforms such as Google Classroom, Moodle, and Zoom has made it possible to organize lessons, conduct assessments, and conduct reflections in a high-quality manner. Interactive tools such as Kahoot and Quizizz make the learning process interesting and effective. These platforms allow for increased student engagement, direct involvement in the learning process, and real-time testing of knowledge. Competitive tests, instant feedback, and visual animations significantly increase student motivation.

In addition, interactive tests allow the teacher to accurately monitor the level of knowledge, errors and the pace of learning of students. Automatic analysis of the results of each student is important for increasing the effectiveness of the lesson, revising the teaching strategy and strengthening the individual approach. At the same time, Kahoot and Quizizz develop critical thinking, quick decision-making, communication and collaboration skills in students. When answering questions, students are forced to use not only memorization, but also higher-level thinking skills such as understanding, analysis and comparison. In general, the use of such digital tools increases the dynamism of the lesson, activates students and creates an innovative environment that meets modern educational standards.

The effective use of pedagogical technologies in the modern educational process is an important factor not only in increasing the level of knowledge of students, but also in their personal development and the formation of critical thinking skills. Innovative pedagogical approaches allow for the organization of lessons in a personalized and interactive way, which encourages active participation in the learning process and increases the ability to solve problems.

One of the important directions of improving the quality of education today is close cooperation with IT specialists. IT specialists have practical skills in applying modern information and communication technologies to the educational process, and help teachers and students effectively use interactive platforms, digital resources, distance learning tools, and analytical systems. Thus, cooperation between pedagogical technologies and IT specialists helps to organize the educational process based on new approaches, increase the effectiveness of lessons, and form digital competencies of students in line with the requirements of modern society. As a result, improving the quality of education through the integration of modern pedagogical technologies and IT specialists helps to ensure not only the level of knowledge, but also the development of students as social, intellectual and enterprising individuals. This approach is considered an effective strategy for introducing innovative methods into the educational process in higher and general education institutions.

Experience part. To assess the effectiveness of experimental work, a 5-point rating scale developed by R. Likert was used to determine students' motivation, activity, and internal attitude towards learning. This methodology allows students to convert their subjective opinions into precise numerical indicators and statistically compare the differences between the experimental and control groups.

Final scores for student motivation (Likert 1–5)

Table 4.

Indicators	Experiment group	Control group
Interest in the lesson	4.6	3.4
Willingness to work independently	4.4	3.2
Communication and cooperation	4.7	3.6

Indicators	Experiment group	Control group
Using digital tools	4.8	3.1
Level of topic recall	4.5	3.3

During the research, measurements were carried out based on the 5-point Likert scale to determine the level of students' interest in the lesson, their activity in educational activities, and their acceptance of modern pedagogical technologies. This methodology allowed us to express the psychological state, motivation, and subjective attitude of students to the learning process in numerical indicators. The results of the analysis showed that the average motivation index in the experimental group using modern pedagogical technologies was 4.6 points. This indicator was significantly higher than in the control group (3.3 points), clearly demonstrating the effectiveness of the technology-based educational process in attracting, engaging and motivating students to learn. In particular, a significant positive increase was observed in the indicators of interest in the lesson, willingness to work independently, cooperation and use of digital resources.

The data obtained using the Likert scale confirmed that the difference between the experimental and control groups was not accidental, but a real, statistically significant change formed as a result of innovative methods introduced into the educational process. This indicates that lessons organized on the basis of modern technologies are an important factor in increasing student motivation.

In general, the results of the Likert-based assessment indicate that the introduction of innovative approaches to the educational process significantly increases not only the level of student learning, but also their positive attitude towards learning. Therefore, the systematic use of modern pedagogical technologies is one of the most effective ways to improve the quality of education.

Conclusion. Modern pedagogical technologies serve as an important tool in improving the quality of education. Through them, the student becomes an active subject in acquiring knowledge. Teachers, on the other hand, are able to effectively organize their activities. Therefore, every teacher must be able to apply modern technologies in their professional activities. When organizing a lesson based on innovative technologies, a teacher can use various technical means (computer, projector, electronic board, etc.), and conduct lessons based on interactive methods. The more innovations there are in a teacher's work, the more content it will increase. It should also be recognized that the ideas about innovative technologies and interactive methods in education do not have a stable and perfect form. Each teacher can individually introduce innovations in education. Having learned new information about the content, topics of his subject, scientific achievements and innovations in this field, he can use them in the teaching process, give examples, create a new method in education, and conduct lessons on this basis. Innovative technologies arise from the fact that the teacher is not satisfied with his work, and tries to introduce innovations to improve it.

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