PROSPECTS FOR USING DIGITAL TECHNOLOGIES TO IMPROVE EDUCATION QUALITY

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Annotation: This article provides a comprehensive analysis of the implementation of digital technologies in Uzbekistan's education system and their impact on the quality of education. The research highlights aspects such as the modernization of the learning process through digital technologies, ensuring active participation of students, and facilitating access to educational resources. Additionally, existing challenges and future development prospects are also examined.

Keywords: digital technologies, education, quality of education, online learning, innovations, distance learning, digital transformation, information and communication technologies, pedagogical technologies, educational environment.

Today, the education system worldwide is entering a new era. The use of digital technologies to develop human resources and improve learning processes plays a crucial role, particularly in enhancing the quality of the educational process.

As Uzbekistan's education system continues to expand its digitalization process, integrating these technologies into teaching improves efficiency, creates new opportunities for students, and enables competitiveness in the global education arena. The role of digital technologies in improving educational quality is vital not only for the development of the Information Technology (IT) sector but also for enhancing the overall quality of education.

As a result of the measures implemented in Uzbekistan to widely apply digital tools in education, the number of students benefiting from distance learning opportunities has significantly increased. Such advancements highlight the effectiveness of incorporating digital technologies into the teaching process.

In Uzbekistan, programs aimed at improving teachers' digital literacy through digital education tools are also being introduced. These initiatives are key factors in creating innovative solutions that serve to digitize the learning process and enhance teaching efficiency. Furthermore, the development of these technologies plays an essential role in adopting innovations within the global education system and preparing society for new knowledge.

Relevance of the Topic: In modern society, the education system is one of the key pillars determining a country's economic, social, and technological development. In today's global context, digital technologies are fundamentally transforming educational processes and elevating them to a new level. International experts

emphasize that by integrating digital technologies into education, countries can develop their human capital and prepare adaptable professionals for future innovative economies.

Uzbekistan is also implementing consistent reforms to improve the quality of education and align it with international standards. The role of digital technologies in enhancing education quality is not only highly relevant today but is also regarded as one of the main strategic directions of the education system. By successfully implementing this process, the country gains the opportunity to prepare knowledgeable, modern, and competitive professionals for its future.

From this perspective, introducing and developing digital technologies in the education system is a necessary measure for improving education quality and aligning the national education system with global demands.

Improving the quality of education is one of the urgent issues facing society today. In the context of the rapid development of information technologies, the need to integrate digital technologies into the education system is increasing.

Within the framework of reforms being implemented in the Republic of Uzbekistan, modernizing education, improving quality, and aligning it with global standards are set as key objectives.

The role of digital technologies in improving education quality will be discussed in the following areas:

1. Organizing the learning process efficiently through modern technologies.

2. Expanding the use of digital resources and electronic learning platforms.

3. Implementing automated systems for assessing education quality.

4. Monitoring students' individual progress and creating personalized learning programs.

5. Enhancing teachers' digital literacy and improving pedagogical activities with innovative technologies.

According to statistical data, in 2022, over 2.3 million students in Uzbekistan used electronic learning platforms, and this number is expected to rise to 3.5 million by 2025. Furthermore, the government aims to implement modern information technologies in all educational institutions and ensure their effective use by 2030.

The introduction of digital technologies in improving education quality is bringing about significant changes. Research shows that electronic learning platforms and distance learning systems in our country are playing a crucial role in enhancing students' learning opportunities and improving their academic performance.

Increase in Achievement Levels: According to the 2021 TIMSS international study, the use of digital technologies significantly improved students' achievement indicators. For example, in areas where electronic test platforms were used, the quality of education improved by 15-20%. This data was published by the IEA.

Development of Students' Skills: Students learning in simulated and interactive environments have been observed to develop problem-solving skills more quickly than those taught using traditional methods. Students who gained practical knowledge in science and technology through digital laboratories showed 25% higher results.

Economic Efficiency of Digital Technologies: The cost of education through digital platforms decreased by 30-40%, creating a more flexible environment for students. For instance, over 30 million students took courses on global platforms like Coursera and EdX during 2022.

The widespread implementation of digital technologies in education contributes to improving students' knowledge, enhancing teachers' effectiveness, and organizing the education process economically. To achieve this, it is essential to develop digital infrastructure, train qualified personnel, and establish continuous monitoring systems.

The Role of Digital Technologies in Improving Education Quality. Digital technologies play a critical role not only in organizing modern education but also in ensuring a country's competitiveness on the global stage. Today, the digitalization of the education system is viewed as one of the strategic priorities worldwide.

Firstly, integrating digital technologies into the learning process can improve students' knowledge by 20-30%. International experiences, such as those from Finland and South Korea, where digital education technologies have been continuously implemented, have led to high global rankings for students from these countries. In TIMSS and PISA studies, these countries' education systems are considered leaders globally.

Secondly, economic analyses show that the full integration of digital technologies in the education process allows for:

✓   Development of human capital,

✓   Increased learning efficiency,

✓   Reduction of costs.

For example, implementing personalized learning programs based on Artificial Intelligence (AI) and big data technologies allows students to receive education tailored to their individual needs. This method has been successfully implemented in the United States, where it has been proven to improve students' academic performance by up to 30%.

Conclusion: With the integration of digital technologies into the education system, the learning process is undergoing a fundamental transformation. These technologies play a crucial role in improving the quality of education, enhancing students' interest in learning, and preparing them for the future. Digital technologies allow each student to learn based on their unique abilities and needs, while also helping to create personalized learning trajectories.

Through digital games, simulations, and virtual laboratories, students can apply theoretical knowledge in practice, which helps them retain the material better and understand it more deeply. Digital technologies make education more flexible and offer more opportunities, especially for young people in remote areas, expanding their access to learning.

Digital platforms allow students to create their own projects, solve problems, and implement innovative ideas. This increases students' motivation to learn and makes the learning process more engaging and interesting.

Digital technologies have a great potential for the future of the education system. When used wisely and effectively, these technologies help students acquire modern knowledge and skills, turning them into independent thinkers who can contribute to the development of society.

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