

THE IMPORTANCE OF DIGITAL EDUCATIONAL TECHNOLOGIES IN
IMPROVING THE QUALITY OF EDUCATION

Ashirmatova Shaxrizoda

a 3rd-year student of the Faculty of Professional Education and Arts, majoring in
“Technological Machines and Equipment” at the Nizami National Pedagogical University of
Uzbekistan.

+998996362482

shaxrizodaashirmatova1@gmail.com

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ABSTRACT: This article analyzes the role of digital educational technologies in the modern education system and their significance in improving the quality and efficiency of education. It also discusses the advantages of using information and communication technologies in the educational process, distance learning platforms, electronic educational resources, and the impact of interactive pedagogical technologies on students' learning processes. The results of the study show that the effective use of digital educational tools contributes to improving the quality of education, developing students' independent thinking skills, and ensuring the efficiency of the pedagogical process.

Keywords: digital education, education quality, pedagogical technologies, e-learning, distance learning, innovative approach, information technologies.

ЗНАЧЕНИЕ ЦИФРОВЫХ ОБРАЗОВАТЕЛЬНЫХ ТЕХНОЛОГИЙ В
ПОВЫШЕНИИ КАЧЕСТВА ОБРАЗОВАНИЯ

Студентка 3 курса факультета профессионального образования и искусств,
направления «Технологические машины и оборудование» Национального
педагогического университета Узбекистана имени Низами

Аширматова Шахризода.

+998996362482

shaxrizodaashirmatova1@gmail.com

Аннотация (Russian): В данной статье анализируется роль цифровых образовательных технологий в современной системе образования и их значение в повышении качества и эффективности обучения. Также рассматриваются преимущества использования информационно-коммуникационных технологий в образовательном процессе, платформы дистанционного обучения, электронные образовательные ресурсы и влияние интерактивных педагогических технологий на процесс обучения. Результаты исследования показывают, что эффективное использование цифровых образовательных средств способствует повышению качества образования, развитию навыков самостоятельного мышления обучающихся и обеспечению эффективности педагогического процесса.



Ключевые слова: цифровое образование, качество образования, педагогические технологии, электронное обучение, дистанционное обучение, инновационный подход, информационные технологии.

Keywords: digital education, education quality, pedagogical technologies, e-learning, distance learning, innovative approach, information technologies.

Introduction. Today, globalization and digital transformation processes are bringing fundamental changes to all spheres of society, especially the education system. The rapid development of information and communication technologies has created a strong need to integrate modern digital tools into education. As a result, traditional teaching methods are being improved, and new innovative pedagogical approaches are emerging, which significantly enhance the quality, efficiency, and accessibility of education. The main goal of the modern education system is to prepare independent, creative, and information-competent individuals who are capable of critical thinking and problem-solving. Digital educational technologies play a crucial role in achieving this goal. Electronic platforms, virtual laboratories, multimedia tools, distance learning systems, and artificial intelligence-based educational technologies have become essential components of modern pedagogy.

The experience of the COVID-19 pandemic further highlighted the importance of digital technologies in education. Educational institutions were forced to switch to online learning platforms, which revealed both the advantages and limitations of digital education systems. This situation demonstrated the urgent need to further develop and improve digital learning environments. Therefore, studying the role of digital educational technologies in improving the quality of education, identifying existing challenges, and developing effective solutions remains one of the most relevant issues in modern pedagogy.

Main Part. In recent years, reforms in the education system and the acceleration of digitalization processes have significantly increased the importance of using digital educational technologies. The development of information and communication technologies has had a strong influence on the education system, leading to the modernization of traditional teaching methods and the introduction of innovative pedagogical approaches.

Digital educational technologies are understood as a pedagogical system based on the use of electronic platforms, multimedia tools, internet networks, virtual environments, and software applications in the educational process. These technologies improve communication between teachers and learners, facilitate knowledge delivery in modern formats, and increase the overall efficiency of education. In a digitally based learning environment, education is not limited to the classroom and can continue remotely without interruption.

Digital educational technologies provide learners with quick access to educational resources. Through electronic libraries, online platforms, and virtual learning environments, students can easily find necessary information in a short time. This ensures continuity of learning and promotes independent research skills. At the same time, the use of multimedia tools such as text, audio, video, and animation helps simplify complex topics and increases student engagement. Furthermore, digital technologies enable individualized learning approaches. Each learner can study according to their own abilities and pace. The automation of tasks, tests, and assessment systems through electronic platforms allows for quick analysis of results, helping teachers identify students' strengths and weaknesses effectively.



In addition, digital technologies strengthen communication between teachers and students. Online platforms, video conferencing tools, and virtual communication systems allow lessons to be conducted remotely, ideas to be exchanged, and immediate feedback to be provided. This significantly improves the efficiency of the educational process and creates a collaborative learning environment.

Conclusion. In conclusion, digital educational technologies play a crucial role in improving the modern education system, increasing its efficiency, and enhancing the quality of education. The integration of information and communication technologies into the educational process expands learning opportunities, develops students' independent learning skills, and strengthens creative and analytical thinking abilities.

Moreover, electronic platforms, multimedia tools, and distance learning systems improve the effectiveness of pedagogical activities and strengthen cooperation between teachers and students. The research shows that the effective use of digital technologies is one of the key factors in improving education quality.

However, there are still some challenges such as insufficient infrastructure, low internet quality in rural areas, lack of digital competence among teachers, and limited technical resources. To address these issues, it is necessary to continuously improve teachers' digital skills, equip educational institutions with modern technologies, and widely implement innovative pedagogical approaches. In the future, integrating digital educational technologies with artificial intelligence, virtual reality, and adaptive learning systems will further enhance the quality of education. Therefore, consistent development of digital transformation in education should be considered one of the strategic priorities of modern society.

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