



MODERN PROBLEMS IN EDUCATION AND THEIR SCIENTIFIC
SOLUTIONS

RAQAMLI TA'LIM TEXNOLOGIYALARI ORQALI DARS
JARAYONINI SAMARALI TASHKIL ETISH MEXANIZMLARI

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Annotatsiya: Ushbu maqolada raqamli ta'lim texnologiyalarining ta'lim jarayonidagi samaradorlikni oshirishdagi roli o'rganiladi. Darslarni interfaol platformalar, virtual laboratoriyalar, onlayn resurslar va elektron baholash tizimlari yordamida tashkil etish mexanizmlari tahlil qilinadi. Shuningdek, texnologik vositalar orqali o'quvchilarning mustaqil faoliyati va hamkorlikda ishlash qobiliyatlarini rivojlantirish usullari ko'rib chiqiladi.

Kalit so'zlar: raqamli ta'lim, interfaol platforma, virtual laboratoriya, elektron baholash, ta'lim samaradorligi.

МЕХАНИЗМЫ ЭФФЕКТИВНОЙ ОРГАНИЗАЦИИ УЧЕБНОГО
ПРОЦЕССА С ИСПОЛЬЗОВАНИЕМ ЦИФРОВЫХ ОБРАЗОВАТЕЛЬНЫХ
ТЕХНОЛОГИЙ

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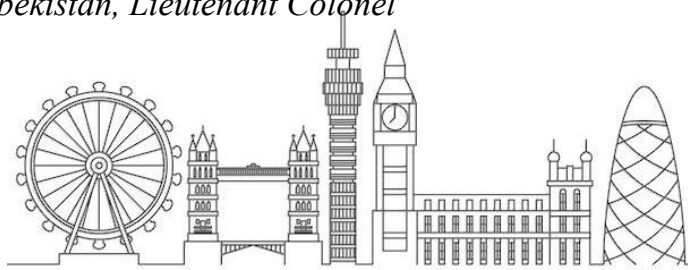
Аннотация: В данной статье изучается роль цифровых образовательных технологий в повышении эффективности учебного процесса. Анализируются механизмы организации занятий с использованием интерактивных платформ, виртуальных лабораторий, онлайн-ресурсов и систем электронного оценивания. Кроме того, рассматриваются методы развития самостоятельной деятельности учащихся и их способности работать в сотрудничестве благодаря технологическим средствам.

Ключевые слова: цифровое образование, интерактивная платформа, виртуальная лаборатория, электронное оценивание, эффективность обучения.

MECHANISMS FOR EFFECTIVE ORGANIZATION OF THE LEARNING
PROCESS THROUGH DIGITAL EDUCATIONAL TECHNOLOGIES

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Annotation: *This article explores the role of digital educational technologies in increasing the effectiveness of the learning process. It analyzes the mechanisms of organizing lessons using interactive platforms, virtual laboratories, online resources, and electronic assessment systems. The article also examines methods for developing students' independent activity and their ability to work collaboratively through technological tools.*

Keywords: *digital education, interactive platform, virtual laboratory, electronic assessment, learning efficiency.*

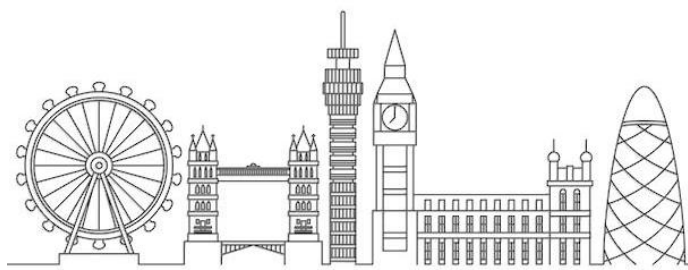
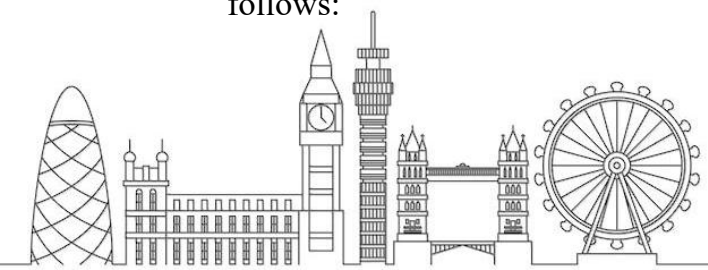
Integrating digital technologies into the modern educational process is an important tool for activating students and improving the quality of education. With the help of electronic resources, learning materials can be presented in a personalized manner, and students' knowledge can be assessed in real time [1].

In the current era of computers and rapidly advancing modern technologies, it is becoming increasingly important to comprehensively study the pedagogical principles of using information and communication technologies (ICT) in general secondary education. This includes analyzing the effectiveness of teaching an entire subject or a part of it through ICT, understanding its psychological features, identifying mechanisms and factors that influence cognitive processes, and exploring many other related aspects. These developments form the basis for creating new content and meaning within the education system-specifically, in organizing the learning process, improving the quality of education, developing teaching materials, and increasing the effectiveness of teaching and learning.

Under the leadership of President Sh. Mirziyoyev, large-scale reforms have been undertaken in our country to modernize the education system, strengthen the material and technical base of educational institutions, ensure its effective use, introduce modern information technologies, and organize the activities of information-resource centers in line with contemporary requirements. Therefore, the effectiveness of information and communication technologies in the development and modernization of preschool education-one of the most important sectors of our national progress-is invaluable [2].

In order to introduce advanced information and pedagogical technologies into the educational process, ensure the intellectual, moral, ethical, and physical development of children, improve the level of teacher training, and develop modern standards for managing preschool education, the Cabinet of Ministers adopted a resolution to reorganize the Information and Pedagogical Technologies Innovation Centre under the Ministry of Preschool Education of Uzbekistan. The center was reestablished as the "Information and Pedagogical Technologies Innovation Centre" LLC (hereinafter referred to as the Innovation Centre), under the Ministry of Preschool Education.

According to this resolution, the main responsibilities of the Innovation Centre are as follows:





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introduction of advanced information and pedagogical technologies into the educational process;

ensuring the proper functioning of the educational management information system;

ensuring an appropriate level of information security and forming a unified information space within the Ministry of Preschool Education;

development and production of educational-methodological materials, multimedia content, teacher training programs, and targeted distribution of these materials through various telecommunication channels [3].

Today, technological progress continues rapidly in our country and around the world, with new innovations constantly being introduced across various fields. Digital technologies are expanding at an unprecedented pace in every sector. In this era of globalization and vast information flows, the speed of information usage has significantly increased. Therefore, the effective use of digital technologies and the synthesis of information in the education system play a major role in improving educational quality and shaping socially active youth. Considerable work is being done in Uzbekistan to develop digital technologies in education.

In particular, in his 2020 Address to the Oliy Majlis, President Sh. Mirziyoyev emphasized the following key tasks: complete digitalization of the education system, transition to a credit-modular system in higher education, creation of an electronic platform for scientific achievements, development of databases of local and foreign research, implementation of the “One Million Programmers” project jointly with international partners, and the introduction of modern information technologies at all levels of education that meet international standards. Today, these initiatives have been successfully implemented [4].

Digital technology is a modern form of economic management in which large sets of digital data and their processing play a key role in production and administration. Using the results of this processing in practice allows for significantly higher efficiency compared to traditional management models. Examples include fully automated production processes, 3D technologies, cloud technologies, remote medical services, smart agricultural technologies, and automated storage and distribution systems.

In the field of education, Virtual Reality (VR) is transforming the way students learn. The use of VR in classrooms helps learners better understand complex concepts by visualizing them, which enhances comprehension and retention. Overall, the role of digital technologies in our lives deepens with each passing day. Debates about whether they represent humanity’s achievement or its potential challenge remain ongoing. However, the introduction of digital technologies into the education system plays a major role in modernizing national education, organizing contemporary learning processes, and increasing the effectiveness of teaching. It can be confidently stated that in the near future, digital technologies will surpass many existing technologies in their impact.





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