

## OPPORTUNITIES OF DIGITAL EDUCATIONAL TECHNOLOGIES IN HIGHER EDUCATION

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**Annotation:** The article explores the concept of digital educational technologies as a method for organizing a digital learning environment and as a tool for developing universal skills that contribute to learners' future professional and personal growth.

**Keywords:** digital technologies; digital educational technologies; possibilities of digital educational technologies; digital educational resources; digital learning environment.

The modern world is becoming increasingly dependent on digital technologies. Digitalization is penetrating all areas of human activity, and education is no exception. The traditional "teacher – student – textbook" model is being supplemented with a new component – a digital tool, and a new element is emerging in the educational mindset – digital educational technologies. The purpose of using digital educational technologies is to transition from a type of learning where students mechanically absorb knowledge, to a type of education where students learn to independently acquire new knowledge and skills. Pedagogical scholars have devoted their research to the issues related to the support of education in general education schools through modern digital educational technologies. For example, in their scientific studies, K. Isroilov, S. Tursunov, N. Nazarov, and A. Qodirov analyze modern trends in education and digital educational technologies as effective tools for supporting the educational process. These technologies are applied not only in general education schools but also in post-school education. M. Ibrohimov and N. Mamatov focus on studying the theoretical aspects of modern digital educational technologies in their work. A. Akhmedov and Z. Sharipov explore modern digital educational technologies as an effective means of supporting education. At the same time, in our opinion, the positive impact of using digital educational technologies as a method of creating a digital educational environment has not been sufficiently analyzed. Therefore, based on the idea of "self-determination – as a form of professional activity", the integration and development of modern digital educational technologies into the educational process ensures the implementation of a digital educational environment.

The novelty of the research results lies in identifying the potential of digital educational technologies under the conditions of digitalization and substantiating their significance. The relevance of the scientific research is explained by the broad opportunities for applying digital educational technologies as a means of creating a digital educational environment and developing students' universal skills. The purpose of the research is to examine the potential of digital educational technologies in effectively organizing the methodological and informational support of the educational process and in creating a digital educational environment.

In the modern world, the continuous development of digital technologies is transforming all aspects of life, opening up new opportunities, and contributing more and more to the contemporary world. These technologies not only influence everyday life but also reshape business models, improve communications, and create new possibilities in education,

healthcare, and other fields. They change how people work, communicate, and interact, creating new opportunities and solving complex problems. Digital technologies are a broad term that encompasses various technologies that use digital data and algorithms to process information and automate various tasks.

Digital technologies encompass fields such as computer science, information technology, the internet, artificial intelligence, cloud computing, software, website development, mobile applications, databases, data analysis, machine learning, virtualization, and process automation. Today, there is no single approach to defining digital technologies.

Analysis and generalization of specialized literature allows for the definition of digital technologies as a set of specific methods and tools. These technologies serve the particular needs of the user, enabling the acquisition, collection, processing, storage, transmission, presentation, and utilization of data. This process is based on electronic systems.

Digital technologies are hardware and software used to create, store, transmit, process, and display information and data. In other words, they are the driving force of the digital age. These technologies enhance communication: digital technologies allow people to connect almost instantaneously across the globe. Email, messengers, social networks, and video conferences serve as means for communication at any time. Additionally, digital technologies make it easier and more convenient to access information. They provide opportunities for searching data via the internet, reading news articles, watching online videos, and learning new topics through online courses. Digital tools and software automate repetitive tasks, simplify work processes, and increase productivity. Furthermore, they enable collaboration and data exchange in real-time. Moreover, digital technologies contribute to improving security by protecting personal data and information.

Undoubtedly, digital technologies are a powerful tool for bringing about changes in the field of education.

Digital educational technologies are methods of enhancing the educational process and organizing a digital learning environment through the use of digital tools and resources. They include various tools, software, and online resources that improve the convenience, efficiency, and quality of education. Digital educational technologies provide quick and easy access to diverse information sources, which helps enrich and expand the materials used in the learning process. Furthermore, they create opportunities for interactive learning. The use of multimedia elements, interactive tasks, online tests, and game elements increases student engagement and helps deepen their understanding of the material. Digital educational technologies allow for remote communication and collaboration between teachers and students. This is particularly relevant in distance learning or when sharing information and materials between different educational institutions. Tools such as online forums, video conferences, and collaborative document editing ensure effective collaboration among participants in the educational process. Additionally, digital educational technologies enable the personalization of learning. They allow for the provision of individual learning materials and tasks based on students' needs and abilities. Automated assessment systems and machine learning algorithms help determine students' knowledge levels and recommend appropriate educational resources. Moreover, digital educational technologies allow for the collection and analysis of data regarding students' performance and learning progress. This enables teachers to assess the effectiveness of teaching methods, identify shortcomings in the learning process, and make informed decisions to improve the quality of education.

Analysis of scientific knowledge and practical experience has shown that there is a strong connection between digital educational technologies and digital educational resources. The use of digital educational technologies includes the following digital educational resources: Electronic textbooks and online resources allow students to access information flexibly and at a time that is convenient for them.

Educational videos and audio materials provide interactive and visual learning. These materials include lectures, demonstrations, and interviews.

Interactive tasks and tests, created on digital platforms, encourage active participation from students and provide teachers with the opportunity to receive instant feedback.

Distance education and electronic classrooms facilitate virtual communication between students and teachers, which is especially important for learning in remote education or areas with low population density.

Virtual and augmented reality technologies help create immersive learning experiences. They enable the visualization of complex processes, conduct virtual exercises, and facilitate the development of practical skills.

Digital educational technologies and resources transform the learning environment into an effective, student-centered digital learning space, making the educational process more interactive and innovative.

In conclusion, based on the above points, it can be emphasized that digital educational technologies provide students with the opportunity to work quickly and conveniently with electronic resources, libraries, and databases. Modern learning platforms and electronic courses, multimedia, and interactive learning materials ease the learning process and increase interest in studying. Furthermore, digital educational technologies enable students to develop social skills, such as communication and collaboration in an online environment, and are also used for creating projects, which helps develop students' creative abilities.

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