



## EXPLORING THE IMPACT OF DIGITAL TECHNOLOGY ON TEACHING PROCESS

*Eshonqulov J.T,*

*fourth year student [Ejalol0909@gmail.com](mailto:Ejalol0909@gmail.com)*

*Salikhova N.I.*

*Scientific advisor [nasibasalikh@gmail.com](mailto:nasibasalikh@gmail.com)*

*English language translation theory department USWLU Tashkent Uzbekistan*

**Abstract.** Digital technologies play an important role in the modern educational process, diversifying teaching methods, developing distance learning, and strengthening an individual approach. This article analyzes the impact of digital technologies on the educational process, their capabilities, and emerging problems. It also highlights the role of technologies in gamification, global communication, and increasing the effectiveness of education. At the same time, it discusses the risks and future prospects associated with their misuse.

**Keywords:** digital technologies, educational process, distance learning, teaching methods, individual approach, gamification, global communication, artificial intelligence, virtual reality, educational effectiveness.

In today's era of globalization, digital technologies are playing an important role in all aspects of human life. The education sector is no exception. These technologies are fundamentally changing the educational process and increasing its effectiveness. A deep analysis of their impact on education arises from the needs of modern society. Digital technologies have, first of all, expanded the scope of education. The development of distance learning systems has created opportunities for students around the world to obtain knowledge. Courses, virtual classes, and learning platforms organized via the Internet have eliminated time and place constraints for students and have made education more accessible. Students and teachers have been able to communicate with each other through online platforms, which has made the educational process more flexible. At the same time, digital technologies have made it possible to diversify teaching methods. Interactive whiteboards, simulations, and presentation programs have made education more lively and interesting. These tools help students understand topics more easily and delve deeper into the subject. The teacher now acts not only as a provider of knowledge, but also as a coach who encourages student activity [1]. Digital technologies have developed an individual approach to education. Electronic resources and systems based on artificial intelligence allow for the creation of curricula that meet the needs of each student. This increases the effectiveness of education for each student. Online tests and diagnostic tools allow for continuous monitoring of student learning. This makes it easier for teachers to adapt their teaching methods to the needs of their students.

At the same time, digital technologies have also created their own problems. One of them is the excessive dependence of students on technology, which weakens social skills. Continuous monitoring of this process is important to ensure the quality of knowledge transmitted using digital tools. In addition,

many educational institutions do not have sufficient financial and technical resources to introduce modern technologies. This creates the problem of equal opportunities. Technologies have also encouraged the use of gamification elements in education. This process increases students' interest in educational materials and allows them to master knowledge in an interesting way. At the same time, games and interactive tasks develop students' logical thinking and problem-solving skills. In addition, digital technologies have allowed the development of global communication in education [2]. Students and teachers from different parts of the world have the opportunity to work together on projects. This process serves to develop intercultural relations, improve communication skills in different languages, and form global citizenship. At the same time, the misuse of technology can lead to a decrease in the quality of teaching. For example, students' independent thinking ability may weaken or their tendency to plagiarism may increase. Therefore, it is necessary to effectively manage digital educational tools and use them appropriately. Teaching students based on multimedia tools has the following advantages:

- 1) there is an opportunity to master the material provided more deeply and perfectly;
- 2) the desire to closely interact with new areas of education increases;
- 3) as a result of reducing the time spent on learning, the opportunity to save time is achieved;
- 4) the knowledge gained is retained in a person's memory for a long time and can be applied in practice when necessary [2].

In the future, digital technologies are expected to change the education system even more deeply. Artificial intelligence, virtual and augmented reality technologies will serve to make education more individual and effective. Also, their use will bring cooperation between teachers and students to a new level. Digital technologies, as mediating elements of learning processes, allow teachers to break away from the traditional hierarchical model. They form frameworks and networks in which students write, read, learn, interact, co-construct and define their identities. The implementation of digital technologies in learning processes increases the quality of teaching processes and creates the basis for making lessons interesting and understandable. Today's citizens experience hyperconnectivity every day. As a mediating element in the interaction between people and technology, this constitutes, for some authors, the third evolutionary force of humanity [3]. People's psychosocial schemas are constantly being transformed, allowing individuals and communities to use their oral, auditory and visual cultures to create new civic practices.

In particular, the formation of a culture of using digital technology is also of great importance. The formation of the skills of schoolchildren to use information correctly and effectively is also of great importance. As a fundamental science, computer science and information technology is engaged in the development of a methodology for establishing information support for management processes with any objects on the basis of computer information systems. There is also an opinion that one of the main tasks of science is to determine what information systems are, what place they occupy, what structure they should have, how they work, and what laws are inherent in them. In Europe, the following main scientific directions in the field of informatics can be distinguished: development of a network structure, computer-integrated process development, economic and medical informatics, social insurance and environmental informatics, professional information systems [4]. The emergence of multimedia systems has led to revolutionary changes in a number of professional fields, such as education, science, art, computer training, advertising, technology, medicine, mathematics, business, scientific research. Although the idea of using computers in the education system arose much earlier, the use of information technologies in all areas of the education system began to be fully implemented with the advent of computers equipped with multimedia devices.

As noted, today it is impossible to think about education without thinking about technologies that support educational processes. The educational integration of technologies is not new in the field of educational technology research today. International studies have shown that for more than two decades, the

introduction of technologies in classrooms has been producing the expected results in terms of improving the quality of educational processes. The international commitment that has prompted the implementation of models aimed at meeting the technological educational needs of 21st century citizens has led to the search for theoretical and conceptual foundations describing the dimensions. It is necessary to prepare digitally competent teachers and students. On the other hand, It highlights that the research conducted so far on the implementation of public policies that promote the integration of technologies in education is diverse. It covers the distance from the institutional approach to the analysis of subjectivity and practices among educational agents [5]. It is noted that the research developed in this direction has revealed increasingly clear problems, such as the failure to take into account the complexity and diversity of school cultures, the commercial orientation of the programs, the sustainability of some initiatives and the lack of adoption of educational policies.

Optimally integrating technology with traditional teaching methods fosters a holistic learning experience. Technology is a powerful tool with the potential to revolutionize teaching and learning. This digital revolution is not without its challenges. Equipping classrooms with the latest equipment is not enough. To ensure that technology truly empowers teachers and improves the learning experience for all students, we must recognize and address the challenges associated with its use. By removing these barriers, we can strategically overcome them and pave the way for a more effective and equitable integration of technology into the educational landscape. This will ensure that technology becomes a powerful opportunity for learning, rather than a barrier to learning [5].

In conclusion, digital technologies are opening up new opportunities in the education system, but they also bring new responsibilities. It is necessary to develop consistent strategies to enhance their positive impact on the educational process and reduce their negative impact. The harmony between digital technologies and education is an important factor for the sustainable development of modern society. It is necessary to gradually increase the opportunities for teachers to use digital technologies, and most importantly, their knowledge skills. It is also worth noting that the use of computer devices in lessons not only creates convenience for teachers, but also provides students with an interesting lesson. Another important aspect of integrating digital technologies in advanced education is to provide students with an early learning program.

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