

THE ROLE OF DIGITAL TECHNOLOGIES IN MODERN EDUCATION

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ABSTRACT

In the modern world of science and technology, the rapid penetration of the education system into digital technologies creates the basis for the analysis and pedagogical justification of many products offered in the information space. Therefore, the purpose of this article is to briefly explain the concept of digital technologies, outline the priorities of digital development of the educational process, its advantages, analyze the importance of the need for scientifically sound implementation of digital technologies in higher education.

Keywords: Digitalization, technology, digital knowledge, information, innovation, interactive, transformation.

INTRODUCTION

The modern world is changing rapidly. Technology is developing at such a rate that we simply have to keep up with the times. This is especially important in the field of education. Today, learning is no longer just a notebook, pen, and textbook. It also includes a laptop, a projector, an electronic whiteboard, the Internet, and many digital tools that help both teachers and students. Technology is becoming an integral part of the educational process, turning it into something completely new and more interactive.

Today, video clips from films that show a scene from the work in question can be used in lessons. This helps to better understand the plot, feel the atmosphere of the book and see the action on the screen. We can observe the actors' work, the dynamics of the scenes, which helps to make the work more vivid and understandable.

Audio recordings of poems performed by professional reciters also enliven poetry. Listening to an expressive performance, we begin to feel better the meaning and emotions inherent in the work. This is especially important when it comes to such subtle genres as poetry, where every intonation and every accent is important [2].

In addition, the use of projectors and computers makes it possible to demonstrate presentations, photographs and diagrams. Visual aids can help students better understand the material, and this is especially important for those who perceive information through vision. After all, every person is unique, and it's important to use different ways of presenting material. When we see, hear and read at the same time, information is absorbed much faster and better.

Technology also makes it easy to update educational content, adapt it to the needs of students, and add new data and resources. This makes the lessons dynamic and modern. With the help of digital tools, the teacher can show relevant information, avoiding outdated textbooks, which sometimes do not keep up with the pace of changes in science and technology. Students, in turn, can receive the material directly in real time and immediately discuss it.

In addition, teachers can show presentations, photographs, diagrams, tables, graphs. All this is clear and helps to better understand the material. People are all different: someone perceives better by ear, someone through sight. Digital technologies make it possible to use several channels of perception at once, and thus make learning more effective. This approach is especially useful for students who have different styles of information perception. One laptop and a projector allow you to implement many methods and techniques: consolidate the material with the help of tests, conduct interactive surveys, involve students in the discussion. All this makes the lessons more interesting, lively and dynamic. This form of work, when students actively participate in the process, leads to greater involvement in the topic and better memorization of the material. Interactive assignments enable students to work in a team and solve problems, which develops their teamwork skills [2].

Sometimes a teacher can even show in real time how a particular problem is solved, open an additional source on the Internet, or explain a complex topic using animation. It helps to visualize the process and understand complex concepts. Animations are especially useful when studying processes that are difficult to put into words, for example, in biology or physics. Using animations as an example, you can easily understand how a certain system works, or how changes occur in nature. Teachers are also using digital platforms to create virtual classrooms that allow students to participate in discussions outside of school hours, share information, and work on projects. Such platforms make it possible to approach the learning process more flexibly, arrange online consultations, and use resources that are not available in the traditional learning process. In addition, this form of education can increase the accessibility of education for students who are unable to physically attend classes for various reasons [3].

With the help of digital tools, teachers can easily create interactive assignments that require students not only to reproduce the material, but also to think critically. For example, working with video content or animations helps students to see complex processes in dynamics and understand their essence. The teacher may suggest that students solve a problem based on the data from the video, or analyze the situations depicted in the photo. In the future, the integration of such technologies will help to further personalize learning. This is especially important for students with special educational needs, who may find it difficult to accept traditional forms of education. The variety of teaching methods and materials gives each student a chance to master the course at their own level, taking into account their individual characteristics.

Digital technologies make it easier not only to learn, but also to control knowledge. Today, many tests and tests are conducted on special online platforms. The system automatically checks the answers and immediately gives the result: how many correct ones, how many erroneous ones. This saves time for both teachers and students. There is no need to check hundreds of paper sheets manually, which greatly speeds up the process and reduces the likelihood of errors during verification. Online systems also help teachers analyze student results in real time. This allows you to quickly identify weaknesses and adjust the training program. Students can see the results of their tests immediately after passing, which allows them to quickly understand what needs to be improved and where they went wrong [3].

In addition, digital forms of learning contribute to the development of independence. Students learn to find the information they need, analyze it, and work with different sources. They are

learning new programs, applications, and platforms. All this forms important skills that will be useful in the future profession and life in general. Students who are used to working with digital tools are becoming more prepared for real life, where technology plays a key role. We can say that in a sense, the student becomes more responsible for his studies. After all, when you have access to information at any time, you decide for yourself when and what you need to do. And these are the first steps towards adulthood. Modern technologies make it possible to make the learning process flexible, adapted to the needs of each student. This helps to better organize your time and increase your level of personal responsibility.

Moreover, the use of digital technologies in education enables students to develop information management and critical thinking skills. They teach you how to analyze, systematize and draw conclusions, which is an integral part of their future profession. After all, in real life it is important to be able to effectively find solutions, manage time and interpret information correctly. It is also worth noting the importance of digital technologies for the individualization of the educational process. Each student has his own peculiarities in the perception of information, and modern education allows us to take these peculiarities into account. For example, in the case of students with special needs, such as hearing or visual impairments, various adaptive technologies can be used to allow them to fully participate in the learning process. Video tutorials with subtitles, programs for reading text aloud, as well as interactive maps and diagrams are just a few examples of how digital technologies can help in the educational process.

With the help of technology, teachers can prepare lessons, add additional materials, create online courses and resources that are available to students 24/7. This allows you to teach at any time, without limiting students to a strict schedule. Educational materials become available anytime and anywhere, which greatly facilitates the process of preparing for exams and tests. Moreover, students can work on assignments at their convenience, which reduces stress and helps maintain a high level of motivation. However, it is important to remember that technology is just a tool. The main thing is a person: a teacher who knows how to use these tools wisely, and a student who is ready to learn, discover new things and move forward. Do not rely solely on technology. The human factor always remains crucial in education [5]. In addition, it is important to properly integrate technology into the traditional learning process so that it does not replace, but complements, live communication between teachers and students. Combining face-to-face meetings, discussions, and digital technologies yields the best results. It is also worth noting that not all students have the same opportunities to use modern technologies, so teachers should take this factor into account so that learning is accessible to everyone. It is also worth mentioning the future prospects. Perhaps even more interesting learning formats will appear soon: virtual reality, artificial intelligence in teaching, and full interaction with learning platforms. We are only at the beginning of the digital age, and a lot depends on how we learn to work with it.

The main step in the future is the integration of technology into teaching, especially at the level of higher education institutions and vocational training. Universities and colleges around the world are already actively using online courses and distance learning, which allows them to attract students from different parts of the world. This opens up new opportunities for cooperation and exchange of experience, as well as promotes the expansion of educational

boundaries. With the development of virtual reality and artificial intelligence, education will soon include new forms of learning, such as immersive virtual labs, where students will be able to conduct research and experiments without leaving the educational institution. Virtual tours of historical monuments, biological laboratories or archaeological excavations will allow students to better understand and experience the material they are studying [4].

In conclusion, digital technologies are opening up new horizons for education, making it more accessible and effective. However, it is important to keep in mind the balance between traditional methods and innovation. The role of the teacher remains key, because he helps students master technology and develop critical thinking. In the future, technology will be an integral part of the educational process, creating opportunities for flexible and exciting learning, as well as preparing students for life in the digital world.

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