

Application of Digital Technologies in Education

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Abstract: Today in the world, providing modern education to young people and thereby ensuring stable development of the country has become one of the main problems. In the current era of rapid development, learning to receive information and use it correctly is the main goal for young people.

The article provides an understanding of digital technology, the use of digital technology in education, the tools of the educational system of digital technology, and the advantages of digital technology. Also, by studying, systematizing and summarizing the existing practice in drawing up scientifically based conclusions on the introduction of digital technologies in higher education, suggestions are made not only on how they will take an important place in the field of education and in what form they will be introduced.

Keywords: Education, digital technology, artificial intelligence, network, knowledge, internet, distance learning.

Introduction. Today, the importance of digital technologies in society is increasing. The importance of digital technologies in establishing a completely new type of development of society and economy based on computers and knowledge is considered important. Mobile social networks, cloud technologies, sensor networks, Internet of Things, and artificial intelligence technologies that enable work with governments can be identified as the main components of the transition to digital technologies. Technological improvements in education have made life easier for students. Today, instead of using pen and paper, students use different software and tools to create presentations and projects, unlike a heavy book, an e-book is easier to carry, they have what they need. An opportunity is being created for them to view information directly from the Internet through their gadgets or to study at two or more higher educational institutions at the same time. Different technologies are entering our time every day. The issues of their widespread introduction and development of the digital economy have become a serious vital issue for every country nowadays. Digital technologies enable networks to serve the fields of distance education, telecommunications, security, data storage, software, and many others. Available digital technologies include high-quality data warehouses, high-speed Internet connectivity, security searches for all industries, and a wide range of technologies. Digital technologies are capable of creating great opportunities for our society and can have a great impact on our lives.

The purpose of the work: To effectively use digital technologies in education while maintaining the quality of teaching: first, of course, to improve the Internet infrastructure in our country, to increase the quality of services provided by mobile operators, and to provide conditions for the most important population, especially students, to master the latest achievements of modern information and communication technologies, and it is necessary to create privileges. Secondly, to expand the scope of use of digital technologies in the organization

of the educational process and to develop information resources, teaching tools and distance learning technologies, to involve creative students in university digitization projects, to make proposals to the competent authorities on making changes to the normative legal documents regulating the activities of higher education institutions, high it is important to organize centers including structures equipped with efficient digital devices, classrooms, laboratories, media studios, etc., and to apply the experience gained there in all higher education institutions of Uzbekistan. Thirdly, it is necessary to ensure the solid integration of modern information and communication technologies and educational technologies, and in this regard, to create additional conditions for the continuous development of the professional skills of pedagogues. Fourthly, it is important to organize and conduct courses to improve the skills of teachers on topics such as the use of interactive presentation systems, the development of interactive and multimedia presentations related to the Internet for lectures and seminar classes. Fifth, it requires the implementation of distance learning process at any time using real-time interactive presentation systems, video conference systems, virtual halls, electronic resources. Sixth, the use of cloud technologies, virtual reality, augmented reality, and the use of 3D printing in the development of didactic materials and experience designs, the use of digital didactics and digital learning models, and a scientific web site for teachers and students to discuss projects, theses, scientific research, etc. It is necessary to develop sites. Only then, using digital technologies, without reducing the quality of education, it is possible to provide students and young people with knowledge at the level of today's demand. It should be noted separately that today our life is connected with techniques and technologies in every way. If the possibility of beneficial use of technologies is created to improve and develop the quality of education, the learning process will be improved, assimilation, level of education and efficiency of personnel training will increase. An educated generation, professional personnel are the guarantee of the development of the society on a large scale.

Comment: Multimedia, overhead projector, computer, laptop, TVs connected to the Internet, telephone lines, smart boards, projectors play the role of the mediators of the educational system introduced with digital technologies. Today, equipping the educational system with them ensures high-quality lessons for students. Online lessons given on television are a prelude to the transition to digital education. This process proved that it is possible to get education without leaving home. If we think about other advantages of switching to digital education, it is appropriate to include the following. Students will have the opportunity to study wherever and whenever they want; - students will have the opportunity to choose subjects and study from home even in remote villages where there is a shortage of specialists; - the culture of receiving and using information from the Internet is formed; - raises the education system to a new level; - dramatically reduces time and money consumption; - will have advantages in not getting lost in the "digital world" and finding a good job.

Digital technologies have become so embedded in our lives that today not only our daily activities, but also the development of socio-economic spheres cannot be imagined without them. The globalization of education has already required the use of digital technologies. The need for the Internet is increasing sharply in education, medicine and other areas. Learning technology applications can save a lot of time and energy by automating or partially automating daily operations like attendance tracking and performance monitoring. Digital technology teaches students to use technology responsibly and strategically, which helps them make decisions and develop self-discipline. For example, advanced technologies based on the use of artificial intelligence in the healthcare sector are helping to save human lives, detect diseases and increase life expectancy. In the field of education, the provision of virtual learning environments and distance learning has allowed students to participate in programs that they would not otherwise have the opportunity to participate in.

Conclusion: Digital technologies - virtual reality (Virtual reality, VR). The emergence of technical devices that allow a person to be in virtual reality has made this technology in demand in all areas. Helmets and suits of virtual reality, specialized rooms allow a person to enter an unknown world, which is programmed to respond to all human actions from the virtual world. In

the field of education, virtual reality (VR) is changing the way students learn. Using VR in classrooms can help students better absorb knowledge and learn by visualizing difficult concepts. In conclusion, it can be said that the introduction of digital technologies in various fields, not only in the education system, plays a major role in the modernization of the country's education system, it serves to organize modern education and increase the effectiveness of education.

In general, expanding the scope of application of information and communication technologies to higher education is the demand of the times. According to world experts, the need for IT specialists will increase in the future. Therefore, in his address to the Oliy Majlis dated January 24, 2020, the head of state put forward a proposal to implement the project of one million programmers. Therefore, it is necessary to train skilled personnel who are in high demand by applying information and communication technologies, without breaking away from the world development, despite the existing shortcomings and obstacles. Based on the above, it is appropriate to make the following suggestions: - in order to keep up with the times in the way of education and vocational training, it is necessary to massively develop the competencies of using information and communication technologies in all citizens of our country; - every family in our republic should have at least one laptop. After all, the investment spent on education and knowledge always pays off; - effective use of information and communication technologies by exemplary professors and teachers engaged in scientific-pedagogical activities in the higher education system, in particular, supporting their innovative approaches to teaching, creativity, giving them freedom to organize training sessions when such talent is observed, and introducing incentives when high performance is observed ; - it is necessary to implement effective methods and means of using information and communication technologies in the organization of the educational process based on the internal capabilities of each higher education institution (including branches in remote areas). In this regard, it is appropriate to regularly organize events for young researchers-researchers, such as competitions for startups and innovative projects aimed at solving local problems, and to organize support for them.

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