Benefits of Implementing Digital Technologies in Education

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Abstract

In this article, in order to further develop the education system and increase the quality of education in Uzbekistan, suggestions are given on the digitization of the education system, the use of modern information technologies in educational processes, and the improvement of its efficiency.

Keywords: *Digital technologies, modern information technologies, "digital future", electronic textbooks, distance education, "digital technologies training center", efficiency.*

Today, digital technologies are changing the image and structure of existing industries and networks in countries around the world. The use of digital technologies in all spheres makes it possible to ensure the development of this sphere, high efficiency, quick and high-quality implementation of processes, and high competitive advantages in the world community.

In particular, as a result of the use of digital technologies in the field of education, education has occupied almost all regions of the world and has become an integral part of people's lives. These technologies fully covered the processes of formation, creation and acquisition of knowledge.

In our country, a lot of work is being done to develop digital technologies in the education system. In particular, in the Proclamation of the President of the Republic of Uzbekistan Sh.M.Mirziyoyev to the Parlament on January 24, 2020: full digitalization of the education system, transfer of the educational process in higher education to the credit-module system, electronic transfer of scientific achievements platform, formation of the base of local and foreign scientific developments, the implementation of the "1 million programmers" project together with foreign partners and the introduction of information technologies that fully meet international standards at all stages of education were discussed. [1] Also, "Digital technologies educational centers" are being established in the regions of our republic. One such center was commissioned on November 7, 2019 by the Ministry of Information Technologies and Communications Development in the city of Kattakorgan, Samarkand region. During the first year, this center of digital technologies will serve to increase the knowledge and skills of more than 1,800 young people from Kattakurgan in the fields of robotics, cyber sports, e-commerce, innovative entrepreneurship, software and digital technologies. [2]

Now it is no longer a problem to go to prestigious higher education institutions of foreign countries, to build schools in remote rural areas, to attract teaching staff, to publish large-scale textbooks. Because as a solution to the above problems, digital technologies make it possible to use knowledge and skills related to education and other fields around the world for everyone anywhere, anytime and in any way.

If we rely on the experience of developed countries, including the USA, the "Digital Future" program has been developed, according to this program, a complete change of education and training is envisaged. US researchers have worked to create a computerized training program that will be as effective as a private tutor. As a result of the research, the researchers implemented the "Digital Teacher" program. According to the initial results of the program, it was possible to reduce the time required to become an information technology specialist from several years to several months. According to experts, obtaining such results in subjects such as mathematics will raise primary education to a completely new level. [3]

Digital technologies (personal computer, tablet, projector, multimedia tools, electronic literature, etc.) serve to improve and develop the quality of education. For this, it is necessary to direct electronic textbooks to make the learning process interesting, easy, memorable and harmless to health. Electronic textbooks can simultaneously contain elements such as text, audio explanation, video, and 3D animation. Such textbooks are especially useful for those studying in fields such as physics, chemistry, and medicine. When digital technologies become an element of education, learners engage in the learning process with great interest. Since digital textbooks are visual, multi-format and interactive, according to experts, students remember 80% of the information. [4] In addition, the use of digital technologies in the educational process allows:

➢ activates students' learning;

➢ personalizes learning;

➢ teaches students to acquire knowledge independently;

➢ the level of literacy of working with information develops among learners, they are formed such as evaluating information on the Internet, checking their reliability;

➢ creates an opportunity for students in remote districts and villages where there is a lack of specialist teachers to choose subjects and receive education from home;

➢ distance learning in prestigious higher education institutions, as a result of which it is possible to listen to the lectures of qualified professors online;

➢ reducing the annual costs of education (the US alone spends 7 billion US dollars annually on printing paper textbooks); [4]

➢ digital technologies allow to collect the latest, valuable knowledge about the world and create an environment where it is convenient for everyone to use it;

➢ as a result of the use of digital technologies and internet communication services, the learners develop such skills as the expansion of their worldview, the ability to be aware of the socio-economic situations occurring in the world, to understand and evaluate them;

➢ updating information in digital textbooks does not require high costs, long time and reprinting;

➢ one of the advantages of modern digital textbooks is that it does not allow students to move from one topic to the next without mastering it.;

➢ digital technologies ensure direct and transparent examination and assessment of students' knowledge level;

➢ the use of digital textbooks allows simultaneously mastering subjects, forming digital literacy together with information literacy;

➢ distance learning provides convenience such as conducting work and other activities along with studying;

➢ production of digital technologies and textbooks is a big order for manufacturers of electronic products (in this regard, it is possible to create new jobs in the development of entrepreneurship, digital programming and production of textbooks), for the state it increases the quality and efficiency of the education system, and for the consumers, that is, the learners, learning will be easy to learn and interesting.

In our opinion, the problem of qualified personnel in our country, lack of modern literature, insufficient provision of material and technical base, transition from traditional teaching methods to interactive methods in educational processes, it is advisable to implement the following measures in order to solve problems such as raising the quality of education to a level that meets world educational standards, and to use digital technologies in the education system and improve the quality of education:

➢ formation of legal (legislation and decision-making) and material (establishment of various funds, funds, attracting investments) bases for complete digitization of the education system and transition to digital education;

➢ forming the infrastructure of digital education (introduction of ICT and other digital technologies to all stages of education, providing the territory of the country with full internet connection);

➢ development of national digital textbooks, adaptation of these textbooks not only to the DTS in Uzbekistan, but also according to the requirements of any country and desired educational program (as a result, national digital textbooks can be used not only in the territory of our country, but also provide an opportunity to export them to foreign countries);

➢ forming a system of standard schools nationwide, equipping these schools with interactive whiteboards, tablets, modern laboratory equipment, projectors, electronic textbooks and other technologies;

➢ creation of an electronic library in order to facilitate the continuous acquisition and processing of digital textbooks;

➢ to organize training courses on the application and use of digital technologies and textbooks in the teaching process, and to conclude contracts with prestigious higher education institutions for the purpose of exchanging experience with foreign countries;

➢ introduction of distance education and organization of examinations using digital technologies to ensure the integration of education and production;

➢ implementation of full digitization of entrance exams to higher education institutions (this will save time and money, ensure transparency, prevent corruption and get results immediately);

➢ transition to the credit-module system in higher education, opening specialization courses for preparing digital technology specialists;

The implementation of the above measures will raise the education system of our country to a new level, and the study process will be improved, assimilation, level of education and efficiency of personnel training will increase.

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