

## THE ROLE AND PLACE OF INNOVATIVE TECHNOLOGIES IN THE DEVELOPMENT OF THE EDUCATION SYSTEM

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### Annotation.

This article highlights the role of education in society, the advantages of using innovative technologies in education. There are also several effective ways to introduce innovative technologies into the education system of creating innovations in all areas.

### Keywords.

Education, innovation, innovative technology, digital technology MOOC(massive open distance education sistem), Khan academy.



The experience accumulated over the centuries of human society proves once again that education is one of the main tools for the upbringing of the younger generation, the development of the country, which determines the future of the state and society in today's world, where human intellectual potential is important.

Education is an integral part of the world in which we live and provides material well-being through the direct satisfaction of human spiritual needs. In particular, in developed countries, great emphasis is placed on educating the younger generation. Investment in the public sector will bring 15-17 times more benefits to society in the future. In our case, this figure is 4 times. The United States spends 7.5% of GDP, Norway 7.6%, and China 4% on education. A study by the United Nations Development Program shows that 16% of the total capital accumulated on Earth so far falls in tangible capital, 20% in natural resources and the remaining 64% in human capital.

Education is necessary for the formation and development of human knowledge, the realization of intellectual and creative abilities, their development. However, today, with the development of science and technology, innovative technologies, such as computers, tablets, electronic whiteboards, e-textbooks, interactive textbooks, high intellectual potential, creativity, place in the global labor market without the introduction of interactive teaching methods (cluster, case, Venn diagram, etc.) in education competitive personnel cannot be formed.

In this regard, many measures are being taken to promote innovations, digital technologies in the educational process of the country. In particular, the President of the Republic of Uzbekistan Sh.M.Mirziyoyev issued a decree "On innovations in the education system, including to promote the unit through the introduction of interactive and creative methods, to ensure the development of innovative curricula involving the use of digital technologies". In the Address of the President Sh.M.Mirziyoyev to the Oliy Majlis on January 24, 2020: further expansion of the connection of educational institutions to the Internet, the transition of the educational process in higher education to the credit-module system, vocational education establishment of cooperation with prestigious foreign universities and research centers of all higher education and scientific research institutions. Innovation means the introduction and practical application of new technical, technological means, new methods, forms, types of management, organization in all spheres and sectors of our lives. Innovative technology in the educational process is a new approach to forms, methods and techniques of education, the use of new software and hardware in education.

The use of digital innovative technologies in education is more effective than the new pedagogical technologies used by teachers. For example, based on artificial intelligence, which allows students of all ages to learn without being separated from work and daily work. Massive open distance education system. This system allows you to listen to lectures on the Internet through artificial intelligence. Its implementation, firstly, prevents waste of time, reduces costs, and secondly, the study of science. Thirdly, even those who live in any part of the world, even in the most remote villages, have the opportunity to receive a modern and quality education.

Another such software-based system is Khan academy. In this system, students have the opportunity to listen to lectures at home, on the street and in similar places, and when they come to class, together with the teacher. Using this system in the learning process, the teacher can determine which topics the student has mastered or failed to master, which ones he has difficulty mastering, and quickly solve the problems that plague the student on the topic. The student will be able to master the topics in a timely manner.

The Knewton educational system, when developing a special curriculum for each student, takes into account the gaps and shallows of the student's knowledge, which method of teaching (text, video, audio) is more effective. In addition, the degree to which the student has learned a given topic, whether or not to move on to a new topic. The student should approach them taking into account the individual characteristics of young people, their shortcomings is a guarantee of deep mastery of the given knowledge.

The use of interactive e-book and lecture text forms of the subjects taught in the educational process, along with increasing the interest of students in mastering the subjects, allows them to save a lot of money than their appearance in the paper version.

Learning through another digital innovative technology video games in education. Applying it in the learning process allows learners to better master existing knowledge and skills by entering the virtual world than other types of media. If we look at ordinary history books, we can learn about past events. However, large-scale and well-organized game simulators allows you to identify and understand more important information.

The Parla program is the first step in creating a digital teacher based on artificial intelligence, in which the educational technology determines the level of knowledge of the student, creates an individual educational program for the student and adapts it to the student.

The emergence of digital teachers raises the quality of education to a higher level, because most of the existing teachers are not qualified enough to provide quality education. They also take into account the individual characteristics of each student. The opportunities for the implementation of education are limited.

Thus, the main purpose of the application of the latest innovations in education is to enrich the human mind, to demonstrate its infinite potential, and thereby contribute to the economic, political, social, spiritual and legal development of the country riding.

In our opinion, the following measures should be introduced into the education system of the country in educating the next generation to implement digital innovations:

1. Involve highly qualified teachers, professors and young people who love their profession and take it seriously in the educational process.
2. Full coverage of all children in preschool education and understanding of how to use digital tools from this age.
3. Educate young people in the spirit of love for the motherland, devotion to the people.
4. Upon completion of primary school, students are invited to participate in general secondary education, general scientific secondary education and vocational education on the basis of their abilities and interests redirect.
5. To create entrance test questions for higher education institutions in such a way as to determine the applicant's logical thinking skills and to implement it with the help of digital technologies.
6. Practical integration of education, science and production (service) enterprises in higher education.
7. Increasing the scope and volume of equipping educational institutions with ICT and digital technology. Involvement of highly qualified specialists in education to create relevant knowledge and skills in students.
8. Further strengthening cooperation with foreign higher education institutions.
9. To support students, professors and teachers in research, development and creation of the necessary conditions.
10. Ensuring the cooperation of teachers and programmers to create interactive e-books and textbooks. Introduction of distance learning.
11. Amendments and additions to existing laws, taking into account the above, and the establishment of strict control over their implementation in practice, etc.

In conclusion, the use of innovative technologies in education will enrich the content and quality of education, the full mastery of knowledge and skills by students and their independent work. As a result, free-thinking, open-minded, creative and innovative people will grow up.

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