



## Issues of Digitalization and Innovation in the Educational Process

**Akbar Narboevich Kuvandikov**

*Associate professor of economics, Institute of Civil Protection of the Russian Federation of  
Emergency Situations*

**Abstract:** Education has been and remains in the world a significant area of development in all sectors of the national economy. And the use of digital technologies in this is one of the most important factors in obtaining and improving the quality of education. The article discusses some issues of using digital teaching technologies in educational institutions.

**Keywords:** Education, quality, digital economy, information and communication technologies, learning efficiency.

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The progressive development of Uzbekistan's national economy is currently largely dependent on the implementation of the most efficient mechanisms and reforms that will enable the republic to replicate social, political, and managerial state structures, thanks to the wise and effective use of modern information and digital technologies.

The pandemic's global expansion considerably affected people's everyday lives and social norms, making it necessary for practically everyone to use digital and information technology for communication and employment. A commodity that can meet all of a person's needs, the Internet has evolved into a must for living.

The growth of market transitions in contemporary society has become dependent on the quality of education since digitalization has permeated all aspects of society, particularly the educational system. An innovative outcome of the state's sustainable growth is high-quality education that is focused on the adoption and application of contemporary digital and information technology. We can draw the conclusion that the use of technology and the rise in requirements for obtaining such education cannot be achieved without the use of creative digitalization strategies after analyzing the current issues with obtaining quality education. [5, p. 3].

Without researching the political, economic, social, and other underpinnings, it is difficult to improve the digital economy [1, p. 2]. The introduction of new inventions into the national economy is the only way that the extensive reforms being implemented in our nation, which will increase prosperity and open up new development opportunities for the republic's economy, will be successful.

According to the previous designation of 2020 as "The Year of Science, Education, and the Development of the Digital Economy," a scientific study of trends and opportunities for the development of the digital economy in Uzbekistan is currently underway. In Uzbekistan, a great deal of fruitful scientific work is being done in this direction to help students receive a better

education using contemporary digital and information technologies in the classroom and for the purpose of their application later in various areas of the national economy of the country.

According to us, the major characteristic of the future society will be the integration of digital technology into everyday life, particularly during a pandemic. Uzbekistan has been increasingly accessible to the global economy as a result of the advancements made in the republic over the past few decades in the fields of information, digital technology, and telecommunications. A proactive rise in the number of high-quality educational competences at universities is now occurring in tandem with the reception of high-quality education, innovation, and digital growth of the national economy. Without the explosive expansion of the digital economy and ICT, a state's economic breakthrough is unachievable in the context of the globalization of the world economy and technical advancement.

As provided for in the developed Program "Digital Uzbekistan - 2030" and as stated by the President of Uzbekistan Mirziyoyev Sh.M. the country must, as soon as possible, make a revolutionary revolution in the development of digitalization in all sectors of the national economy, which will make it possible to dramatically increase the potential of the domestic market of information and communication technologies, increase the digital transformation of public services, create good conditions for the development and improvement of new information technologies and software products, development of human capital, improvement of the system of training and retraining of highly qualified personnel in the field of digital technologies [2, p. 4].

Many nations throughout the world are currently having issues with the advancement of digital and information technology. One of them is Uzbekistan. As a result, the infrastructure and communications for telecommunications are still not progressing to a sufficient degree. One of the primary causes of the dearth of highly trained professionals in the digital economy is a lack of knowledge in the area of computer skills, which is a significant factor in hiring decisions. And in this case, educational institutions should consider how they can better train future professionals in the use of contemporary digital and information technologies in the national economy.

The republic should be aware that it has not yet invested at the necessary level in information and communication systems to achieve a high level of use of communication stations, which is currently at a rather low level and presents challenges for providing prompt customer service. One station may provide Internet service to 645 users in Kazakhstan and 230 users in Russia, respectively [4, p. 54].

Mobile Internet services must be greatly expanded and improved in quality in order to significantly narrow the current digital divide. For comparison, we can note that this year in Uzbekistan, as compared to 2020, the average speed of mobile and broadband Internet communications has decreased by nearly 1.5 times, which is obviously connected, first and foremost, with the pandemic disease [5, p. 2].

Residents of the republic still lack sufficient digital skills, which has become a significant barrier to the country's digital transformation. Digital literacy is still a major issue in the nation as a whole and in the republic's educational institutions in particular because it is not taught and applied at a high enough level. The regional regions are particularly true of this. A crucial task in ensuring the motivation of economic entities for digital innovations and research in the field of digital technologies is the formation of a system of support and incentive measures, which is provided for in the Program for the Development of the Digital Economy in the Republic of Uzbekistan until 2035 [3, p. 12].

It is no secret that the use of and instruction of students in the abilities of contemporary information and communication technologies is currently what increases the level of competitiveness in

universities. Universities must take part in this, draw in professionals from other nations, and purchase cutting-edge technical and technological equipment [1, p. 2].

Getting a professional, top-notch education and preparing future specialists for the workforce have evolved into strategic goals for our nation and ideas for educational growth. All of this will have a significant impact on raising the standard of instruction for students, which is directly impacted by the appropriate and adequate use of contemporary digital and information support [4, p. 97].

It should be highlighted that the high level of upcoming professionals in this subject may be considerably impacted by the use of digital, informational innovations in education, which should positively impact the advancement of high-quality education. This will thus make it feasible to train professionals for diverse sectors of the national economy with fresh, creative thinking and an attitude to the continuously rising needs of the moment for the use of current technology, but this will surely have a negative impact by causing contradictions. The following can be distinguished in this direction:

1. To define a competent approach to instruction in educational institutions, the following requirements must be met:
  - in our opinion, it is essential to clearly define which topics require a more major use of digital and information technologies after examining the situation of education in universities;
  - the discipline-specific arrangement of audiovisual work is made possible by multimedia computer technology;
  - for the development of a personality capable of self-realization in communicative activity, and for the encouragement of students' creative and research-based endeavors.
2. In order for students to better understand the direction in this field, which will then be applied in their professional activities, it is necessary to increase the number of practical classes in universities. Regardless of the subject's name or the intended course of study, it should be rigorous in the way training sessions are conducted, the use of contemporary multimedia resources and the Internet, and the introduction of information and digital technologies into the educational process.

A set of electronic textbooks, information resources, optical boards, video text communication systems, new techniques for presenting data and knowledge, a highly automated information environment that made it possible to receive access to any knowledge provided in the form of information, etc. are just a few examples of new, innovative approaches that would be desirable to use in order to fully master the disciplines conducted using modern technologies. These approaches will allow you to more thoroughly master the disciplines. Modern technical teaching aids of a new type should play a significant role and, in the end, may play a decisive role. These include the means of modern information and digital technologies.

Determining the role and position of technical tools and digital technologies in the educational process is a prerequisite for properly integrating them into the process. Here, it must be remembered that each teacher's practical activities depend heavily on the creation of a methodology for their successful application in the educational process.

Modern information, communication, and digital technologies continue to advance and adapt to the rapidly changing needs of society, allowing students to more thoroughly and successfully master disciplines using these new technologies, which they will undoubtedly use in all facets of the Uzbek national economy and beyond. The most crucial duties that teachers at educational institutions must do are:

- ✓ the capacity for independent study and the growth of broad educational competencies;

- ✓ the growth of abilities to manage a lot of information;
- ✓ a shift in perspective, viewpoint, output of goods, education, mentality, and attitude;
- ✓ enlarging students' cultural perspectives by expanding their horizons, providing new opportunities for processing and analyzing large amounts of data, and diversifying the information arrays' content;
- ✓ increasing the quality of education at all stages of the educational process by enhancing students' cognitive capacities in the information and digital society.

All of the aforementioned is only the beginning of the opportunities that digital technologies today provide, which is a prerequisite for realizing the objectives of the domestic economy's sectors' sustainable development.

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