



Article

The Importance of The Digital Economy in Shaping The Educational Environment

Begaliyeva Madina Abdusamatovna*¹

1. Teacher of university of economy and pedagogy

*Correspondence: madinbegaliyeva93@gmail.com

Abstract: This article analyzes the processes of forming an educational environment in the digital economy and reveals its importance in improving the quality of education. Digital technologies and innovative approaches are considered as an important factor in the effective organization of the educational process in educational institutions, the introduction of personalized learning, and the training of qualified specialists. Recommendations based on methodology, analysis, and results are put forward to achieve scientific goals.

Keywords: Digital Economy, Educational Environment, Digital Technologies, Improving The Quality of Education, Innovative Education, Digitalization

1. Introduction

In order to further develop science in our country, educate young people with deep knowledge, high spirituality and culture, and to continue the work begun on the formation of a competitive economy to a new, modern level, the President of the Republic of Uzbekistan Shavkat Mirziyoyev, in his Address to the Senate and Legislative Chamber of the Oliy Majlis, declared "2020 - the Year of Science, Enlightenment and the Digital Economy". This has a deep meaning and content, because an investment in science, spirituality and enlightenment is an investment in a great future. According to the results of analyzes conducted by authoritative international organizations, the digital economy allows us to increase gross domestic product by at least 30 percent, at the same time eliminate the shadow economy and sharply reduce corruption. If we turn to international practice, today the digital economy is not limited to the sphere of e-commerce and services, but is rapidly penetrating every aspect of life, in particular, healthcare, science and education, construction, energy, agriculture and water management, transport, geology, cadastre, archives, internet banking and other areas, and is producing its high results in each of them.

Today, the rapid development of the digital economy worldwide is having a significant impact on the education system, among other areas. The widespread introduction of digital technologies in the educational environment is fundamentally changing the content, form, style and organizational system of education. The development of the digital economy in education is not only a technological revolution, but also an important factor in expanding access to knowledge, improving the quality and efficiency of education, creating equal opportunities and implementing personalized learning.

Citation: Abdusamatovna, B. M. The Importance of The Digital Economy in Shaping The Educational Environment . Central Asian Journal of Innovations on Tourism Management and Finance 2025, 6(3), 750-753.

Received: 20th Apr 2025

Revised: 27th Apr 2025

Accepted: 9th May 2025

Published: 17th May 2025



Copyright: © 2025 by the authors. Submitted for open access publication under the terms and conditions of the Creative Commons Attribution (CC BY) license (<https://creativecommons.org/licenses/by/4.0/>)

Especially after the pandemic, the need and interest in distance learning has increased worldwide, and the integration of digital platforms, online learning environments, and artificial intelligence elements into the educational process has become a pressing issue. In Uzbekistan, great attention has been paid to the digitalization of education within the framework of the "Digital Uzbekistan – 2030" strategy [1]. In this process, updating the infrastructure of educational institutions, widespread introduction of digital platforms, and training pedagogical staff as digitally competent personnel are of great importance.

This article analyzes the basic principles, opportunities, and challenges of shaping the educational environment in the digital economy, and examines the impact of this process on the quality of education and the efficiency of the system on a scientific basis.

Literature Review

The digitalization of the education system cannot be limited to creating a digital copy of traditional textbooks, digitizing document circulation, and providing all schools with high-speed Internet access. There are various criteria for the development of digital literacy. For example, Henry Jenkins believes that digital literacy should include working with a computer like a "hardware" (i.e., understanding how the interaction between humans and digital technology occurs), understanding the structure and distribution of digital information (for example, being able to work with DT), understanding the structure of a networked society and the features of social media. Doug Belshaw identifies eight elements of digital literacy, including understanding the cultural context of the online environment, being able to communicate in online communities, creating and distributing content, and using digital technologies for independent development [2]. Also, scientific research was conducted by the following scientists : academician S.S.Gulomov , O.M.Abdullaev , A.T.Kenzhabayev, Sh.Tursunov, and researchers F.Nishonov, Sh.Hasanova, M. Savriyeva and others [3]. These studies focused on the ways of digitizing education.

2. Materials and Methods

In the process of writing the article, data collection and sorting methods were used. The results obtained were presented as a final conclusion using the induction method. At the same time, the problems and solutions of the digital economy in education were studied using the analytical method in conducting scientific research. Also, electronic questionnaires, mass media analysis, educational platforms, and digital resources were analyzed.

3. Results and Discussion

The nature of higher education, as well as the role of universities in society and the economy, is changing rapidly. Universities around the world are competing with each other to attract students, faculty, and funding. In this competition, universities that keep up with the times and use new digital capabilities are gaining an advantage over others. Digitalization has created new opportunities for education and management, facilitating data collection and analysis, collaboration and communication. The benefits of digitalization include increased efficiency, increased student engagement, personalized learning and the use of new teaching methods. In addition, digitalization makes it easier to manage universities, curricula, faculty, staff and resources. One of the main benefits of digitalization is the potential for increased student engagement. By leveraging digital tools such as online learning platforms, social media, and mobile apps, universities can create interactive and engaging learning experiences that keep students motivated and engaged. Digitalization also allows universities to leverage new teaching methods such as games and virtual reality. These methods can be used to create interactive learning experiences that make it easier for students to understand complex concepts and theories. By increasing students' learning outcomes, increasing their employability by developing the necessary competencies, and increasing the prestige of universities that use various means

of delivering and explaining information, and creating conditions for them to benefit from these opportunities, an advantage is created over others [4]. Today, in the conditions of Uzbekistan, it is extremely important to study the laws, trends and opportunities for the development of the digital economy, in particular, the level of penetration of information technologies into various sectors of the economy on a scientific basis. The development and prospects of our homeland, the success of the large-scale reforms being implemented in our country directly depend on the introduction of new innovations into our national economy. Digital technologies, science and research play a significant role in achieving progress. The widespread introduction of digital technologies in state and public administration, the pursuit of modern knowledge serve the well-being of our people. A spiritually and enlightened generation is the main factor in the development of the country. Therefore, improving the digital economy, scientific and practical research of its economic, political, social and legal foundations is a requirement of the time.

The analysis shows that the educational environment is fundamentally changing in the digital economy. Traditional forms of education are being integrated with modern digital technologies, which makes the educational process more interactive, flexible and open. Digital technologies, in particular, artificial intelligence, cloud technologies, big data (Big Data), online learning platforms and digital assessment systems - all this serves to improve the quality of education. As a result of the analysis, we highlight the following main aspects:

Building digital competencies - in a modern education system, digital literacy, effective use of technology, digital ethics, and security skills are essential for teachers and students.

Equal opportunities for education - digital tools have created equal access to educational resources for students in different regions. This serves to reduce the gap in the quality of education between regions.

The popularization of innovative approaches - the digital economy has made it possible to introduce new pedagogical methods into the educational environment: technologies such as gamification, adaptive learning, and networked learning.

Digital infrastructure importance - the technical base, internet connection, and the availability of modern devices are decisive factors in the digitalization of the educational environment.

Human resource capacity - full digitalization of the educational process requires that teaching staff be well-versed in modern technologies. Therefore, improving the skills of personnel remains one of the pressing issues.

It is clear from this that the digitalization of education is achieving high efficiency. Under the influence of the digital economy, analysis and monitoring, inclusive education, personalized (privatized) education, interest in online courses, digitalization of education (online education) are currently of great importance in achieving efficiency in educational areas . We can see this in the following figure, see Figure 1.

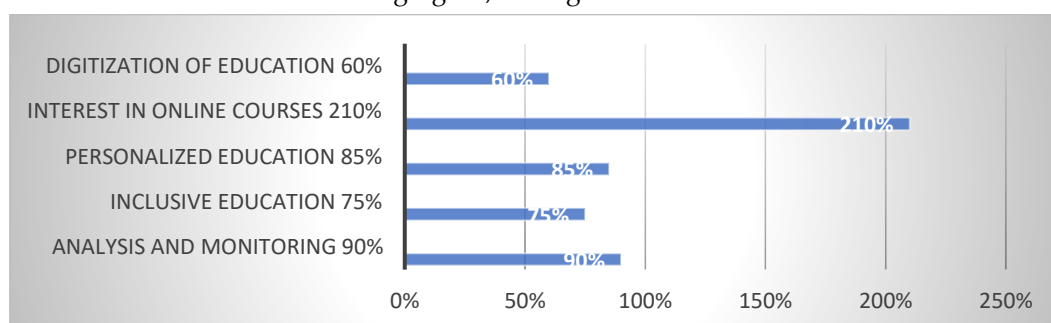


Figure 1. Digital economy under the influence education directions according to efficiency.

Above Figure 1 from the data apparently as it stands , digital economy under the influence education directions according to in efficiency online to courses interest 210 % , same at the time very big that our view possible . Next, we can see the effectiveness of personalized education at 85%, inclusive education at 75%, analysis and monitoring of education at 90%, and digitalization of education at 60%. On this basis, it can be said that the impact of the digital economy on the education system is fundamentally changing not only the form and content of the educational process, but also the methods of managing, assessing and analyzing education. In this process, it is necessary for state policy, the strategy of higher education institutions and pedagogical approaches to act in harmony. In order to achieve efficiency in educational areas under the influence of the digital economy, it is very important to initially increase the quality of education, effective use of resources, flexibility of the educational process, effective monitoring and evaluation systems, and the development of innovative skills [5].

4. Conclusion

The development of the digital economy is of particular importance as it is one of the main tools for building an economically, socially, and politically strong democratic state in which the laws of a market economy are fully implemented, as well as for improving the business environment in the country, creating broad convenience for entrepreneurial activity and simplifying its conduct, and implementing new innovative ideas.

The formation of an educational environment in the digital economy is an important factor in adapting to the needs of modern society and creating competitive human capital. The introduction of digital educational technologies can not only increase knowledge and skills, but also make the educational process more qualitative and efficient. Therefore, efforts aimed at forming a digital educational environment will create a solid foundation for the development of the education sector in the future . The digital economy provides an opportunity to radically change the educational environment. Educational institutions should pay special attention to updating infrastructure, retraining teachers, and providing digital resources when forming a digital environment.

REFERENCES

- [1] Decree of the President of the Republic of Uzbekistan No. PF-6079 dated 05.10.2020
- [2] R.Ergashev, S.Hamrayeva "Raqamli iqtisodiyot" Darslik/2020/374bet
- [3] Gulyamov S.S., Abdullaev O.M. Raqamli iqtisodiyotda blokcheyn texnologiyalar//Toshkent-2019.-T.:Fan 2010. Kenjabaev A.T. "Tadbirkorlik faoliyatida axborotlashtirish milliy tizimini shakllantirish muammolari" Iqtisodiyot fanlari doktori ilmiy darajasini olish uchun yozilgan dissertatsiya. Toshkent-2005 y.
- [4] Sh. Tursunov "RAQAMLI IQTISODIYOT SHAROITIDA KORXONALARNI BOSHQARISHNING TASHKILY MEKANIZMLARINI TAKOMILLASHTIRISH" "RAQAMLI IQTISODIYOT" ILMIY-ELEKTRON JURNALI/ 10-SON maqola
- [5] M.Begaliyeva "Oliy ta'lim tizimida raqamlashtirishning ahamiyati" March 2025. Volume 3, Issue 3 / Journal of Science and education in agriculture <http://www.seagc.andqxai.uz> 212-214bet