THE IMPORTANCE OF EFFECTIVELY USING DIGITAL TECHNOLOGIES IN THE EDUCATION SYSTEM

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Abstract: *The article discusses the issues of the spread of digital technologies, the rapid development of the digital infrastructure of educational institutions, the training of personnel with modern digital competencies, the renewal of specialties and educational fields taking into account labor market trends, the formation of educational programs based on flexible learning trajectories, the development of a continuous education concept, as well as the processes of introducing artificial intelligence systems into the educational environment. Additionally, studies aimed at implementing digital technologies that enable the improvement of the education system and allow planning specific steps to transform the work of educational institutions have been conducted, and proposals have been formulated.*

Keywords*: digital technologies, education system, online education, distance learning, digital transformation, digital learning environment.*

Nowadays, the penetration of digital technologies into all sectors undoubtedly demands a new quality of education. It is important to emphasize that significant changes are being observed both in the social sphere and in education. Although natural resources and cheap labor remain important, they are becoming secondary factors in socio-economic development. It is evident that the basic level of knowledge formed by the existing education system is insufficient.

Digitization in education is not just about preparation for life and work, but lifelong learning and personal development. It should be noted that the widespread dissemination of global information systems and artificial intelligence technologies helps to implement necessary changes. Achieving this goal is particularly important in connection with cloud computing, the spread of high-speed internet, the broad introduction of smart digital tools, and virtual technologies.[1.85]

During the digitalization era, more attention should be paid to developing competencies and the ability to adapt. Reducing the number of topics required for study allows for a significant deepening of the development of the remaining material and focuses maximally on forming necessary skills. As a result, students gain the opportunity to independently master any sections of scientific fields.

Research by scientists including N.S.Kramarenko, A.Yu.Kvashin, S.D. Karakozova,

A.Yu. Uvarova, and O.V.Akimova, has shown that due to limited resources and insufficient digital literacy among educational staff, digital transformation has had a delayed and imperfect impact on educational organizations, and the education reforms carried out in the last decade have been very challenging.

International experience shows that the availability of digital technologies for participants in the educational process is necessary to improve the effectiveness of learning activities but is not a sufficient condition.[2.160]

The use of digital technologies is associated with cloud computing, the spread of high - speed internet to the public, the broad implementation of smart digital tools, the use of artificial intelligence methods, and the extensive adoption of virtual technologies.

According to the research of A.Yu. Uvarova, "personalized learning, or the personalized organization of the learning process, has been the aspiration of many generations of professors and teachers." Here, the learner is not an object presented with educational material and simply "acquiring knowledge." Instead, the learner acts as a deeply motivated subject of learning activities who develops and implements their own cognitive motives in the process of mastering the surrounding world. [2.155]

Nowadays, the development of digital technologies in developed countries has led to a transition from mass production of standardized products to the flexible production of individually available products. Alongside this, efforts have begun in the education sector to organize the learning process in a result-oriented and personalized manner. Each student receives solid scientific and humanitarian education and develops modern competencies. In this regard, accelerating work on the effective use of digital technologies in the education system and conducting research in this area is of great importance.

Research shows that the main goals of the future education development strategy include:

➢ improving people's quality of life and achieving their personal potential through education, resulting in subjective satisfaction;

➢ increasing society's resilience to the destabilizing effects of the digital revolution, which brings cultural changes, affects employment structures, and increases social inequality;

➢ enhancing the country's reputation and global influence, and strengthening its position in science, education, and culture. [3.109]

Currently, issues arising in the learning process are being gradually resolved, but this is not the most important thing. During the digital transformation era, it is necessary to continue developing and mastering various forms of education and actively use digital technologies in the learning process.

The incentives that increase students' interest in improving their skills in digital technologies and programming are growing. It is necessary to introduce a new mandatory course on programming in educational institutions to develop algorithmic thinking and teach the basics of programming to all students.

Thus, despite the rapid expansion of the use of digital technologies and their active application in the learning process, only a small portion of those trained can successfully solve complex problems in a digitally saturated environment. However, their number has been increasing in recent years. [4.97]

The education system must be transformed in such a way that the overall literacy and ability of graduates to solve non-standard tasks exceed those of modern intelligent computer systems.

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