

THE CONCEPT, STRUCTURE AND FUNCTIONS OF THE DIGITAL LEARNING ENVIRONMENT

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Abstract: This article discusses the concept, structure and functions of the digital educational environment, staffing the economy with digital technologies, information technologies based on the use of computing and network tools, concepts related to the digital educational environment, the tasks of the digital educational environment for educational institutions.

Keywords: digital, education, environment, information technology, educational institutions, information technology, digitalization, platform, individual, Internet, electronic.

In the decree of the president of the Republic of Uzbekistan dated October 5, 2020, PF-6079 on the approval of the strategy “digital Uzbekistan — 2030” and measures for its effective implementation, new requirements for the educational system for the development of digital education are laid. The need to create opportunities to master digital skills by ensuring digital education is provided at all stages of education [1]. It also plays a special role in the system of professional education in solving the problem of providing the economy with personnel with digital technologies. To ensure a high level of digital literacy, it is necessary to change the forms, methods and technologies of training and introduce new approaches to the educational system [2]. Today, modern information and communication technologies are increasingly entering various spheres of activity of the educational system. This is facilitated, on the one hand, by the need for informatization of society and training of qualified personnel, on the other hand, by the widespread availability of new digital technologies and software. The activities of educational institutions are considered to be largely dependent on how quickly teachers and management have access to new educational information, analyze and process them, as well as communicate them to students. A number of publications have cited that the term “information technology” is synonymous with the term “computer technology” because all information technology is related to the use of

computers. However, the term information technology is broader and includes computer technology as a component.

At the same time, information technology based on the use of computer and network tools is combined with the term “modern information technology”. The use of modern digital educational technologies should lead to the achievement of qualitatively new educational results, the improvement of the effectiveness of management activities and the acceleration of the process of gradual acquisition of knowledge, skills and qualifications of students.

The considered definitions of concepts related to the digital learning environment are an integral part of the implementation of the digital learning environment. At the same time, we consider it necessary to consider the definitions of concepts related to the digital educational environment from other regulatory legal acts.

In our scientific research work, we consider it necessary to consider the definition of a digital educational environment not only from the point of view of regulatory documents, but also from the point of view of scientific knowledge.

K.G.Kazimov in his article gives his thoughts on the digitalization of education and training - the application of new innovative educational technologies based on these algorithms, the implementation of which will ensure the high efficiency of the educational process using software [3].

In his paper the structure of the digital education environment: normative and methodological aspects, the authors argue that the modern digital education environment is part of the global information space, in various fields and directions combined [4].

Y.S.Mironenko analyzes the definitions of the concept of the digital educational environment, presented in the works of Russian and foreign researchers in his article” digital educational environment: concept and structure. Based on the analysis, it advances a specific interpretation of the concept of a digital educational environment.

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In his opinion, the digital educational environment is a means of achieving a certain goal, with the help of which it will be possible to ensure the fulfillment of the requirements of the state educational standard and create an effective management system of an educational institution [5, p.10].

N.Shilova gives a pedagogical interpretation of the concept of the digital educational environment, since the digital educational environment is a complex of relations in educational activities mediated by the use of digital technologies and digital educational resources, aimed at building social relations aimed at the formation of opportunities for cultural assimilation by the subjects of the educational process, self-awareness, responsible digital behavior of At the same time, the author of this article defines the concept of a digital educational environment as a set of open information systems designed to perform various tasks of the educational process. The word open refers to the ability and right to use different information systems in a digital educational environment, replace them, or add new ones at Will [6, p.37].

Comparing the above points of view regarding the understanding of the essence of the digital educational environment, we can conclude that researchers perceive the idea of Information, Digital and educational resources, including a set of technologies for their application, as a system and ensuring the effective assimilation of educational programs by students.

The aim of developing a digital education environment is to ensure the availability of quality education throughout the country by creating a unified education space and creating a modern digital education environment as a digital infrastructure, e-services and an approved public digital education content system (package) that strengthens the “traditional” school.

Analyzing scientific articles on the problem of creating a digital educational environment, we can highlight the peculiarities of the digital educational environment in comparison with traditional education. One of the important advantages of the digital learning environment is the distributed nature of the learning process for the convenience of Education. A significant part of the material is presented not in classes, but with the help of Internet technologies. At the same time, in the digital educational environment, it is important for the student to know exactly what knowledge, skills and qualifications he will have, and on this basis, the formation of an individual educational trajectory.

Next, we will look at the structure of the digital educational environment and how each structural element affects the development of digitization in the educational system.

We have identified the following structural elements of the digital education environment:

1. The information and service platform of the digital education environment is content content. The platform is necessary for the possibility of creating conditions for study

using Remote Technologies, obtaining knowledge regardless of the location of the student.

2. The organization of connecting educational institutions to the high-speed data transmission network and its use is defined in the strategy of the president of the Republic of Uzbekistan “digital Uzbekistan — 2030” of October 5, 2020.

3. Among the options for updating the material and technical base of educational institutions and equipping classrooms, equipment for equipping the teacher's workplace (laptop, computers), as well as personal computers for students, can be used in various buildings with a training place for organizing educational activities. Modern information technology can be used in various educational disciplines, as well as the use of digital educational resources in all disciplines.

4. Improving the skills of teachers of educational institutions means improving the level of digital literacy and the formation of competencies aimed at teaching in a new format using digital educational resources.

Next, we will consider the main functions of the digital educational environment, but we will have to take into account that they differ depending on the identity of the applicants who receive education.4. Improving the skills of teachers of educational institutions means improving the level of digital literacy and the formation of competencies aimed at teaching in a new format using digital educational resources.

Next, we will consider the main functions of the digital educational environment, but we will have to take into account that they differ depending on the identity of the applicants who receive education.

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